

DIV. 3: TRANSLATION ADMINISTRATION

SEC. 1: LINE FORMS

SEC. 1D: 5104 RECORD MULTI-LINE HUNT GROUP INDEX

1. GENERAL

The 5104 Office Record is used by the customer to administer Multi-Line Hunt Group Number assignments. The Multi-Line Hunt Group Index is not used for data entry purposes. The 5104 Record provides a list of the assigned as well as the spare Multi-Line Hunt Group numbers that correspond to the data submitted on the Multi-Line Hunt Group input form. There are two types of Multi-Line Hunt Group: Regular and Circle. This form maintains a summary of the current state of all groups and the Listed Telephone Number.

Service order activity will gradually cause some groups to become idle, as PBXs are disconnected or reassigned to care for their growth. It is the responsibility of the Network Administrator to prepare and maintain this form. This form should be kept as an office record and is not used in the ODA process.

2. FORM ENTRIES

2.1 MLHG

Description: Enter the Multi-Line Hunt Group Number.

Valid Entries: 1 - 999

2.2 LISTED DIRECTORY NUMBER

Description: Enter the Telephone Number. If the Multi-Line Group has Terminal Numbers associated with it instead of Directory Numbers, enter the Terminal Number. Terminal Numbers may range from 1-999.

Valid Entries:

TN: 10 digits

TERMNIAL: 1 - 999

2.3 REMARKS

Description: The remarks space can be used for any additional comments desired such as name of customer, description of telephone number, etc.

SEC. 1E: 5105 RECORD

SLC-96 ALARM TYPE ASSIGNMENT FORM - SLCALM

1. GENERAL

The SLCALM form is available with 5E5 and later Software Releases. It assigns SLC-96 alarms to nine-digit 5ESS Switch distribute points as part of the Integrated SLC Alarm Reporting feature. For 5E8 and later, the CRITICAL field is used if IDCU (Integrated Digital Carrier Unit) equipment is assigned for a TR303 RT (Remote Terminal). For more information on IDCU, see the EQIDCU form (5846 Record), the EQIFAC form (5847 Record), and the RTERM form (5174 Record).

The feature provides the FMAC (Facility Maintenance Administration Center) with the ability to directly receive and view integrated SLC system alarms via six distribute points, one scan point and bay-level relay connections to E2A telemetry equipment. Currently, non-integrated SLC system alarms are generated in the same manner. Also, the one scan point is assigned on this form in order to sense an Alarm Cut Off from the FMAC.

In addition, each integrated SLC remote terminal needs to be assigned to a corresponding distribute point; this enables the FMAC to identify which remote terminal is associated with the detected alarm. These assignments are made on the SLCRT form (5106 Record).

Each remote terminal is connected to a DCLU (Digital Carrier Line Unit) in an SM. Non-integrated SLC alarms use a COT (Central Office Terminal) interface between the remote terminal and the DCLU. Since there is no COT interface in integrated systems, the MMSU (Modular Metallic Service Unit) provides this function, and provides communication between the 5ESS Switch and the FMAC.

The MMSU houses Signal Distributor and Scanner circuit packs that contain up to 32 distribute or scan points. The distribute points are used to transmit the SLC alarms to the E2A telemetry equipment via relay closure; the E2A equipment then transmits the alarms to the FMAC.

There are six alarms and six status indicators that are shared by all SLC systems monitored at the FMAC. The six corresponding distribute points are: MAJOR ALARM, MINOR ALARM, POWER MISCELLANEOUS, NEAR END, FAR END and CARRIER LINE FAILURE. A total of N+6 distribute points are required where "N" is the number of integrated SLC carrier systems in the switch office. Distribute and scan points that are assigned on this form must be unique.

1.1 Recent Change View

The corresponding Recent Change View for this form is 18.14.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *FMAC

Description: Enter the value that represents the corresponding Facility Maintenance Administration Center.

Required Field.

Default: 0

Valid Entries: 0

2.3 #MAJOR

Description: Enter a distribute point number for the MAJOR alarm type.

This distribute point causes the MAJOR alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid Entries: a distribute point number in the following format.

Valid MAJOR Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.4 #MINOR

Description: Enter a distribute point number for the MINOR alarm type. This distribute point causes the MINOR alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid Entries: a distribute point number in the following format.

Valid MINOR Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.5 #POWER MISCELLANEOUS

Description: Enter a distribute point number for the POWER MISCELLANEOUS alarm type. This distribute point causes the POWER MISCELLANEOUS alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid Entries: a distribute point number in the following format.

Valid POWER MISC Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.6 #NEAR END

Enter a nine-digit distribute point for the NEAR END alarm type. This distribute point causes the NEAR END alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid NEAR END Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.7 #FAR END

Description: Enter a distribute point number for the FAR END alarm type. This distribute point causes the NEAR END alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid Entries: a distribute point number in the following format.

Valid FAR END Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.8 #CARRIER LINE FAILURE

Description: Enter a distribute point number for the CARRIER LINE FAILURE alarm type. This distribute point causes the CARRIER LINE FAILURE alarm indicator to light at the FMAC when this type of alarm is detected in the corresponding remote terminal. It is assigned in the format below.

Required Field.

Valid Entries: a distribute point number in the following format.

Valid CARRIER LINE FAIL Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

2.9 CRITICAL

Description: Enter a distribute point number for the CRITICAL alarm type.

Software Release: 5E8 and later

Valid Entries: A distribute point number in the following format.

Valid CRITICAL Entries	

Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
0-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Distribute Point Number.

Data Rules:

For 5E8 and later, if RT INTERFACE on the RTERM form (5174 Record) is "TR303", the CRITICAL field must be entered.

2.10 #ALARM CUT OFF

Description: Enter a scan point number for the ALARM CUT OFF alarm type. This scan point is used to sense an alarm cut off from the FMAC. It is assigned in the format below.

Required Field.

Valid Entries: a scan point number in the following format.

Valid ALARM CUT OFF Entries	
Entry	Description
1-192	SM.
0-1	MSU/MMSU.
0-1	Service Group.
00-31	Modular MSU Board Number.
00-15	Regular (non-modular) MSU Board Number.
00-31	Scan Point Number.

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slcalm                      5ESS Switch      _
5105                        OFFICE DATA ADMINISTRATION
                             INTEGRATED SLC-96 ALARM TYPE ASSIGNMENT

*1. FMAC      0

                                DISTRIBUTE POINTS                                SCAN POINTS
#2. MAJOR                                002112011                                #8. ALARM CUT OFF      007112017
#3. MINOR                                003112012
#4. POWER MISC                          004112013
#5. NEAR END                            005112014
#6. FAR END                             006112015
#7. CARRIER LINE FAIL                   006112016

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Figure 1 SAMPLE SLCALM FORM 5E5 SOFTWARE RELEASE

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slcalm                      5ESS Switch      _
5105                        OFFICE DATA ADMINISTRATION
                             INTEGRATED SLC-96 ALARM TYPE ASSIGNMENT

*1. FMAC      0

                                DISTRIBUTE POINTS                                SCAN POINTS
#2. MAJOR                                001000102                                #9. ALARM CUT OFF      007000508
#3. MINOR                                002000203

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#4. POWER MISC	003000304
#5. NEAR END	004000405
#6. FAR END	005000406
#7. CARRIER LINE FAIL	006000507
8. CRITICAL	007010131

Figure 2 SAMPLE SLCALM FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 1F: 5106 RECORD

SLC-96 REMOTE TERMINAL FORM - SLCRT

1. GENERAL

The 5106 Record is available with 5E2 and later Software Releases. It is used to define assignments for the Integrated SLC-96 (Subscriber Loop Carrier-96) Remote Terminals.

The Integrated SLC-96 feature interfaces the SLC-96 Remote Terminal directly to the 5ESS Switch via a DCLU (Digital Carrier Line Unit) in a Switching Module. Each S-DFI (SLC Data Facility Interface) on the DCLU provides a direct digital interface for a T1 digital carrier line connected to a SLC-96 Remote Terminal. This direct connection to the 5ESS Switch eliminates the need for a COT (Central Office Terminal).

The SLC-96 Remote Terminal is that part of the digital subscriber system that is remote from the 5ESS Switch and is connected to it by T1 lines. An Integrated SLC-96 may operate in one of two modes: Mode 1 or Mode 2. Mode 1 provides no concentration at the Remote Terminal and provides up to 96 subscribers access to the 5ESS Switch via five T1 lines (four active and one standby or protection line), where each T1 line has 24 channels. Mode 2 provides 2:1 concentration at the Remote Terminal so that up to 96 subscribers share access to 48 channels to the 5ESS Switch via three T1 lines (two active and one standby).

The SLC-96 Remote Terminal consists of two banks/shelf groups. Each bank may be operated in either Mode 1 or Mode 2. A SLC-96 bank consists of two shelves. Bank zero (shelf group AB) consists of shelves A and B, and bank one (shelf group CD) consists of shelves C and D. If bank zero is operated in Mode 2 (concentrated), then there is a T1 line from Shelf A of the Remote Terminal to an S-DFI in a DCLU. If bank one is operated in Mode 2, then there is a T1 line from Shelf C. Shelves B and D will not have T1 lines in these cases. When a bank is operated in Mode 1 (unconcentrated), then each equipped shelf, A, B, C or D, has a T1 line from the Remote Terminal to its own S-DFI of the DCLU. The protection line (standby T1 line) also requires an S-DFI and may serve any one of the shelves or shelf groups when the assigned T1 line of that shelf/bank is not functioning.

Each shelf of the Remote Terminal contains 12 CUs (Channel Units). Different types of CUs are used for different types of subscribers (e.g., single or multiparty, coin). The CUs are defined on the SLCCU form (5107 Record).

When a telephone number (or Multi-Line Hunt Group member) assigned on the LINE (or MLHLN) form is associated with a SLEN (SLC Equipment Number), the following correspondence must exist on the SLCRT form: The IM/DCLU/RT values of the NUMBER (of the LINE Form) must be defined on an SLCRT form, and the SLEN LINE NO value must be assigned to an appropriate SLCRT SHELF with its STATUS set to "O" (operational).

- **NOTE:** The 5161-1 Record referenced on the SLCRT form is an output only record which retrieves data from the SLCCU, SLCRT, LINE, and MLHLN forms.

1.1 Recent Change View

The corresponding Recent Change View for this form is 18.10.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *SM

Description: Enter the Switching Module number.

Required Field.

Valid Entries: 1 - 192

2.3 *DCLU

Description: Enter the Digital Carrier Line Unit number containing the S-DFI (SLC Digital Facility Interface) to which the T1 line from the Remote Terminal is assigned.

Required Field.

Valid Entries:

5E14 and earlier: 0 - 7

5E15 and later: 0 - 15

2.4 *REMOTE TERMINAL

Description: Enter the Remote Terminal number of the Integrated SLC-96. A fully equipped DCLU can support a maximum of six Remote Terminals.

Required Field.

Valid Entries: 1 - 6

2.5 SLC ID NUMBER

Description: Enter the identification number for the Integrated SLC-96. This number is not used for call processing, but is used administratively as an identifier for Recent Change/Verify. SLC identification numbers may not be duplicated on either the SLCRT form or the DCLU5RT form (5118 Record).

Required Field.

Valid Entries: 1 - 9999

2.6 TBCU MTB

Description: Enter the number of the Metallic Test Bus which provides metallic access for testing purposes to the subscriber lines of the Integrated SLC-96. This MTB is associated with a TBCU (Test Bus Control Unit). Up to twenty Remote Terminals which are collocated may be assigned to the same TBCU MTB; MTBs may not have more than twenty RTs assigned to them through the SLCRT and DCLU5RT forms. Each Remote Terminal location requires a unique TBCU MTB.

Valid Entries: The 9-digit MTB is assigned in the following format.

TBCU MTB				
Equipment		Format	Non-Modular MSU	Modular MSU
Switching Module	SM	XXX	1-192	1-48
				(CM 1)
				1-192
				(CM 2)
Metallic	MSU	X	0-1	0-1
Service	SVG	X	0-1	0-1
Board	BRD	XX	00-15	00-31
Bus	BUS	XX	00-14	00-14

Metallic Test Bus Point 15 of every MACC pack is reserved for general internal MSU and MMSU diagnostics. Protocol test or diode resistor tests are included in general internal diagnostics.

Data Rules:

The number entered in this field must be defined on the EQTBCU form (5811 Record).

For 5E9(1) and later, if the MTB pack resides on an ORM, RSM, or TRM, the SLCRT and the MTBs must share the same SITE ID (assigned on the EQIM form). In addition, if this is a remote SITE ID (does not reside in the local office), the MTBs must reside on the Common Resource Module (denoted by MASTER MODULE on a corresponding EQSITE form). This rule does not apply to co-located ORMs/TRMs sharing resources (as switch processing does not distinguish between co-located ORMs/TRMs and non-co-located ORMs/TRMs).

2.7 SLC ID DPN

Description: This field is used to assign a distribute point to a corresponding remote terminal as part of the Integrated SLC-96 Alarm Reporting feature. The feature uses these distribute points to allow the FMAC (Facility Maintenance Administration Center) to detect alarms in Integrated SLC-96 systems.

Refer to the SLCALM form (5105 Record) for more information concerning the Integrated SLC-96 Alarm Reporting feature.

Software Release: 5E5 and later

Valid Entries: The nine-digit distribute point is assigned in the following format:

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-31
			(Regular MSU) 00-15
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

2.8 MODE

Description: For each equipped shelf of the Integrated SLC-96 Remote Terminal, enter the mode.

Shelf A always requires an entry. If Shelf B is equipped, its mode must be the same as the mode for Shelf A. If Shelf D is equipped, its mode must be the same as the mode for Shelf C. The mode must not be entered for unequipped shelves or for the Protection Line.

Valid STATUS Entries	
Entry	Description
UNCONC	Unconcentrated.
CONC	Concentrated.

Data Rules:

This field must be "UNCONC" if CU TYPE on the SLCCU form is "DID" or "SPOTS". See the following Channel Unit Position to Shelf table.

Channel Unit Position	SLCRT Shelf
1 - 24	A
25 - 48	B
49 - 72	C
73 - 96	D

2.9 STATUS

Description: For each equipped shelf of the Integrated SLC-96 Remote terminal, enter the appropriate equipment status.

Valid STATUS Entries	
Entry	Description
O	Operational.
G	Growth.
U	Unequipped.

Data Rules:

For new offices and units destined for factory testing, operational is the only allowed value. During offline ODA database retrofits, the other values are valid.

If the MODE for the shelf has an entry, then a STATUS entry is required. If the MODE for the shelf does not have an entry, then a STATUS entry is not allowed.

2.10 S-DFI

Description: Enter the SLC-96 Digital Facility Interface number of the DCLU assigned to the T1 line. An S-DFI is required for all shelves of a SLC-96 Remote Terminal which are equipped and have an entry of "UNCONC" in the MODE field. If the Mode is "CONC", an S-DFI is allowed and required only for shelves A and C if equipped, and only assign an S-DFI to Shelf B if this shelf's status is "O" (operational). Also, if a Protection Line is equipped for the Integrated SLC-96, an S-DFI is required.

Valid Entries: 0 - 29

Data Rules:

S-DFIs assigned on this form must be defined on the EQDCLP form (5810 Record) and must be unique per SM and DCLU.

2.11 PWR MISC MAJ

Description: Is the Power Miscellaneous alarm a major alarm? If the Power Miscellaneous alarm for this remote terminal signals a loss of commercial power, the alarm is a major alarm (enter "Y"). If it is a minor alarm, enter "N".

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

2.12 MTP PROTOCOL

Description: Is the diode protocol to be executed on the Metallic Test Pair between the remote terminal and the Test Bus Control Unit?

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

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slcrt                      5ESS Switch          —
5106,5161-1                OFFICE DATA ADMINISTRATION
                             SLC-96 REMOTE TERMINAL

* 1. SM                      001                20. PWR MISC MAJ   N
* 2. DCLU                    4                  21. MTP PROTOCOL   N
* 3. REMOTE TERMINAL 06
  4. SLC ID NUMBER    0008
  5. TBCU MTB         111002414
  6. SLC ID DPN       111002230

BANK  SHELF      MODE      STATUS      S-DFI
  0     A        7. UNCONC   8. 0      9. 28
  0     B       10. UNCONC  11. 0     12. __
  1     C       13. _____ 14. _     15. __
  1     D       16. _____ 17. _     18. __
                             PROTECTION LINE 19. __

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Figure 1 SAMPLE SLCRT FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 1G: 5107 RECORD

SLC-96 CHANNEL UNIT FORM - SLCCU

1. GENERAL

The 5107 Record is used to define the assignment of SLC (Subscriber Loop Carrier) - 96 Channel Units to equipped shelves of a Integrated SLC-96 Remote Terminal.

The combination of information entered on this record becomes the Integrated SLEN (SLC-96 Line Equipment Number) which is assigned to a customer instead of a regular LEN (Line Equipment Number). The SLEN format is:

SLEN (SLC-96 LINE EQUIPMENT NUMBER)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Carrier Line Unit	DCLU	X	0 - 7
			(5E14 and earlier)
		XX	0 - 15
			(5E15 and later)
Remote Terminal	RT	XX	01 - 6
Line	LINE	XX	01 - 96

The availability of lines 01 - 96 are dependent on the equipage of the channel units defined on this form.

The Remote Terminal which is defined on the SLCRT form (5106 Record) consists of a maximum of four shelves, A, B, C and D. Each shelf has twelve channel unit plug-in positions which house a variety of channel unit types, depending on the type of service required. Channel unit types are either dual, which can terminate two customer lines, or single, which can terminate one customer line. The channel unit plug-in slots are numbered in pairs so that Shelf A has pairs 1/2 through 23/24, Shelf B has pairs 25/26 through 47/48, Shelf C has pairs 49/50 through 71/72, and shelf D has pairs 73/74 through 95/96. If the channel unit type is dual, both numbers of the pair are available for assignment. If the channel unit type is single, only the odd number of the pair is used.

Channel units may be defined on the 5107 Record only for shelves which are defined as operational on the SLCRT form.

The following rules apply to the channel unit plug-in positions of the Remote Terminal shelves:

- Dual channel units may be used in any plug-in position of either a Mode 1 or 2 shelf (concentrated or unconcentrated).
- Single channel units may be used in any plug-in position of a Mode 1 shelf (unconcentrated).
- Single channel units may be used only in the rightmost four plug-in positions of a Mode 2 shelf (concentrated). These shelf positions are:

Shelf A	17/18, 19/20, 21/22, 23/24
Shelf B	41/42, 43/44, 45/46, 47/48
Shelf C	65/66, 67/68, 69/70, 71/72
Shelf D	89/90, 91/92, 93/94, 95/96

Ground Start assigned to a SLEN on the LINE or MLHLN form (5111 Record) is dependent on the Channel Unit Type. Figure 1 relates CU TYPE to services and the associated Class Of Service.

If the channel unit type is "FXS" or "FXSLS" and the OE type is "S", the value of the GST (Ground Start) field on the LINE or MLHLN form is dependent on the channel unit type value. "FXS" requires GST set to "Y"; "FXSLS" requires GST set to "N".

For 5E8 and later, Multi-line hunt members assigned on the MLHLN form to IDCU equipment defined on the RTERM form (RT INTERFACE set to "TR008") must have the GST field on the MLHLN form set as follows: "FXS" requires GST set to "Y"; "FXSLS" and "SP" requires GST set to "N".

1.1 Recent Change View

The corresponding Recent Change View for this form is 18.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *INTERFACE MODULE

Description: Enter the Switching Module number.

Valid Entries: 1 - 192

2.3 *DCLU

Description: Enter the Digital Carrier Line Unit number.

Valid Entries:

5E14 and earlier: 0 - 7

5E15 and later: 0 - 15

2.4 *REMOTE TERMINAL

Description: Enter the SLC-96 Remote Terminal number.

Valid Entries: 1 - 6

2.5 CHANNEL UNITS

Description: Enter the Channel Unit type assigned to each plug-in position of the SLC-96 Remote Terminal.

Valid CHANNEL UNITS Entries	
Entry	Description
COIN	Coin.
DFXS	Software Release: 5E9(2) and later. Dual FX Plugs.
DID	Direct Inward Dialing Dual Channel.
DIDDP	Single Channel Direct Inward Dialing for SLC-96 Remote Terminals.
FXS	Foreign Exchange Ground Start.
FXSLS	Foreign Exchange Loop Start.
FSR	Multi-Frequency Ringing.
MP	Multi Party.
SF1	Software Release: 5E9(1) Only. Dual FX Plugs.
SP	Single Party.

SPOTS	Super Plain Old Telephone Service.
SSV00	Generic Nonswitched Special Services for nail-up only.
SSV10	Generic Nonswitched Special Services for nail-up only.

Data Rules:

The LCC/RAX combination assigned on the LINE or MLHLN form must be defined on the LCC form with an associated service class that matches the channel unit type on the SLCCU form. Please refer to Figure 2 for the required correspondence.

If "DID" or "DIDDPT" are entered, a SLC-96 equipment number (SLEN) must be defined on the TRUNK form (5204 Record). For 5E9(1) and later, note that the nailup of "DID" trunks or "DIDDPT" trunks is not supported.

Telephone numbers assigned on the LINE form that are associated with a SLEN must correspond to a channel unit position with a known value defined on the SLCCU form. Note that the LINE NO values of the NUMBER [7, 8] entry are determined by the CU type value. Both LINE NO (POS) values in the pair are assignable for CU types of "SP," "MP," "SPOTS," "FXS," "FXSLS," "FSR," "DFXS," (5E9(2 and later)) or "SF1," (5E9(1)). Only the lower (odd) numbered LINE NO value is assignable for CU types of "COIN," "FXS," "FXSLS," "SSV00," or "SSV10."

Refer to the table below for the relationship between channel unit type and line number. The CU type is the channel unit type from the SLCCU form and the LINE NO is the seventh and eighth digits of the NUMBER value from the LINE form.

CU TYPE	LINE NO
1	01,02
2	03,04
3	05,06
.	.
.	.
.	.
46	91,92
47	93,94
48	95,96

MLHG/TERMs assigned on the MLHLN form that are associated with a SLEN (SLC Equipment Number) must correspond to a channel unit position with a known value defined on the SLCCU form. Note that the MLHLN NO values of the NUMBER [7, 8] entry are determined by the CU type value. Both MLHLN NO (POS) values in the pair are assignable for CU types of "SP," "MP," "SPOTS," "COIN," "FXS," "FXSLS," "FSR," "DFXS," (5E9(2) and later) or "SF1," (5E9(1)). Only the lower (odd) numbered LINE NO value is assignable for CU types of "COIN," "FXS," "FXSLS," "SSV00," or "SSV10."

The relationship between channel unit type and MLHG/TERMs number is the same as the relationship between channel unit type and LINE number shown in the table above.

If remote terminals are assigned on the SLCCU form, where one or more CU TYPE values (channel unit type) are

"SPOTS"
 "DID"
 "DFXS" (5E9(2) and later)

the corresponding SLCRT shelf must have a MODE of "UNCONC". See the following Channel Unit Position to Shelf table.

Channel Unit Pos	SLCRT Shelf

1-24	A
25-48	B
49-72	C
73-96	D

SLC96 Mode II does not support "SPOTS" or "DID" cards.

SLCCU forms with a CU TYPE set to "SF1" or "DFXS" indicate that this CU TYPE is used by the Dual FX Plugs Special Feature. It is a secured feature and must be purchased by the office before the "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) CU TYPE can be used. An SFSYS form must exist with SFID 144 ACT set to "Y".

* Note: CUTYPE valid for 5E1, Issue 2, Release 3 and earlier Software Releases.

** Note: Class of Service SLENS on TKGRP Form.

CU TYPE	CUSTOMER LINES	SERVICE	CLASS OF SERVICE SLENS ON LINE FORM	CLASS OF SERVICE SLENS ON MLHLN FORM
SP	2	SINGLE PARTY	INDIV B911 CHGCALL	INDIV B911 CHGCALL ATD
MP	2	2, 4, 8PTY	INDIV TWOPTY 4PSS 4PFS 8PSS	INDIV TWOPTY 4PSS 4PFS 8PSS
COIN	1	COIN	COIN PBX	COIN PBX
FXS	1	NON-DID PBX	PBX HOTPBX	PBX HOTPBX ATD
FXSLS	1	WATS	INDIV HOTMOTL	INDIV HOTMOTL
SPOTS	1	SINGLE PARTY NON-DID PBX WATS	INDIV B911 CHGCALL PBX HOTPBX HOTMOTL	INDIV B911 CHGCALL PBX HOTPBX HOTMOTL ATD
FSR	2	5PTY COIN, NON-DID, SINGLE PARTY, ALL ARE MFR LINES	INDIV 5PTY COIN HOTPBX	5PTY PBX HOTPBX
DID DIDDP T		DID DUAL CHANNEL; SINGLE CHANNEL DID FOR SLC-96	PBXDID*	
SF1 DFXS		DUAL FX PLUGS	INDIV HOTPBX HOTMOTL PBX	INDIV HOTPBX HOTMOTL PBX

ATD

*Note: Class of Service SLENs on TKGRP form.

Figure 1 CHANNEL UNIT TYPES AND RELATED SERVICE AND CLASS OF SERVICE

FORM	LCC FORM SERVICE CLASS	SLCCU FORM CHANNEL UNIT TYPE
MLHL N	INDIV	SP, MP, SPOTS, FSR, FXSLS, SSV00, SSV10, SF1, DFXS
	CHGCALL	SP, SPOTS, SV00, SSV10
	TWOPTY	MP, SSV00, SSV10
	4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
	5PTY	FSR, SSV00, SSV10
	HOTPBX	FXS, FSR, SPOTS, SSV00, SSV10, SF1, COIN, DFXS
	HOTMOTL	SPOTS, FXSLS, SSV00, SSV10, SF1, DFXS
	PBX	FXS, SPOTS, SSV00, SSV10, COIN, FSR, SF1, DFXS
	COIN	COIN, SSV00, SSV10
	B911	SP, SPOTS, SSV00, SSV10
LINE	ATD	FXS, SP, SPOTS, SF1, DFXS
	INDIV	SP, MP, SPOTS, FSR, FXSLS, SSV00, SF1, COIN, DFXS
	CHGCALL	SP, SPOTS, SV00, SSV10
	TWOPTY	MP, SSV10
	4PFS, 4PSS, 8PSS	MP, SSV10
	5PTY	FSR, SSV10
	HOTPBX	FXS, FSR, SPOTS, SSV10, SF1, DFXS
	HOTMOTL	SPOTS, FXSLS, SSV10, SF1, DFXS
	PBX	FXS, SPOTS, SSV10, COIN, FSR, SF1, DFXS
	COIN	COIN, FSR, SSV10
	B911	SP, SPOTS, SSV10

Figure 2 REQUIRED CORRESPONDENCE BETWEEN SERVICE CLASS AND CHANNEL UNIT TYPE

```

slccu                                5ESS Switch      _
(5107)                               OFFICE DATA ADMINISTRATION
                                SLC-96 CHANNEL UNIT ASSIGNMENT

* 1. INTERFACE MODULE      ____
* 2. DCLU                  _
* 3. REMOTE TERMINAL      ____    4. CHANNEL UNITS

-----SHELF A-----    -----SHELF B-----    -----SHELF C-----    -----SHELF D-----
row  POS  CU TYPE    row  POS  CU TYPE    row  POS  CU TYPE    row  POS  CU TYPE
1.  1/2    _____    13. 25/26 _____    25. 49/50 _____    37. 73/74 _____
2.  3/4    _____    14. 27/28 _____    26. 51/52 _____    38. 75/76 _____
3.  5/6    _____    15. 29/30 _____    27. 53/54 _____    39. 77/78 _____
4.  7/8    _____    16. 31/32 _____    28. 55/56 _____    40. 79/80 _____
5.  9/10   _____    17. 33/34 _____    29. 57/58 _____    41. 81/82 _____
6. 11/12   _____    18. 35/36 _____    30. 59/60 _____    42. 83/84 _____
7. 13/14   _____    19. 37/38 _____    31. 61/62 _____    43. 85/86 _____
8. 15/16   _____    20. 39/40 _____    32. 63/64 _____    44. 87/88 _____
9. 17/18   _____    21. 41/42 _____    33. 65/66 _____    45. 89/90 _____
10. 19/20   _____    22. 43/44 _____    34. 67/68 _____    46. 91/92 _____
11. 21/22   _____    23. 45/46 _____    35. 69/70 _____    47. 93/94 _____
12. 23/24   _____    24. 47/48 _____    36. 71/72 _____    48. 95/96 _____

```

Figure 3 SAMPLE SLCCU FROM 5E5 AND LATER SOFTWARE RELEASES

SEC. 1H: 5108 RECORD EMERGENCY TN (REMOTE SITE/LOCAL SM) ASSIGNMENT RECORD - EMRNM

1. GENERAL

The 5108 Record is used to define Remote Site or Local SM Stand-Alone emergency Telephone Numbers. For 5E5 and later, Remote Site refers to an RSM (Remote Site Module), ORM (Optically Remote Module), TRM (Two-Mile Optically Remote Module), or for 5E9(2) and later, an EXM-2000 (Optically Remote SM-2000).

When a Remote Site or Local SM goes into the Stand-Alone mode, it can still process calls that originate or terminate on it. Emergency numbers that terminate outside the Remote Site or Local SM can be assigned alternate routing to designated lines or trunks on the Remote SM or Local SM on this form.

1.1 Emergency Number Rerouting

For 5E9(1) and later, Local SM and Remote Sites can reroute up to 500 emergency calls as follows. A Remote Site or Local SM can reroute emergency calls when operating in the Stand-Alone call processing mode. Telephone Numbers not directly assigned to the Remote Site or Local SM, when dialed by a subscriber served by the Remote Site or Local SM, are rerouted to a local Telephone Number or Trunk Group served by the Remote Site or Local SM. A local TN or Trunk Group is assigned to an equipment number (LEN, SLEN or LCEN) on the Remote Site.

1.2 Rerouting to Intermodule Trunk Groups

For 5E5 and later, Telephone Numbers can be alternately routed to an Intermodule Trunk Group that spans two SMs within the same office. Refer to Division 2, Section 1N.

If a range of TNs is entered in the EMER TN field and the OUTPUTSED DIGITS field is blank and the RI field is entered, then the dialed digits will be outputted over the trunk.

1.3 Rerouting Incoming Calls

A Remote Site can have incoming and outgoing message trunks which are physically located on the remote module. These local trunks will be designated with an equipment number on that Remote Site. Calls originating at the Remote Site on an incoming trunk will also reroute during Stand-Alone if the called number is defined on this form. A special case occurs when less than seven incoming digits are destined for a telephone served by the 5ESS Switch, i.e., the office code is defined as a NOC in the 5ESS Switch. In this case, the 5ESS Switch will reconfigure the incoming digits to seven or ten digits so only one EMER TN needs to be defined for both line and trunk originations. The Telephone Number will not be reconfigured if its normal destination is outside of the 5ESS Switch, that is, it is not destined for either the host or its remote locations.

1.4 Rerouting to a Local Trunk Group

An alternative to rerouting to a local line is to reroute to a local trunk. This is accomplished by entering the appropriate Route Index and the digits to be outputted over the Trunk Group. The digits entered in OUTPUTSED DIGITS are subject to digit deletion and prefixing by the Route Index translations. A Trunk Group designated as either local or global may be used; however, at least one trunk member must be equipped on the Remote Site.

1.5 Stand-Alone Feature

When the Remote Site loses communication with the host 5ESS Switch, the reroute of these emergency numbers is automatic as long as the particular Remote Site has the Stand-Alone feature. This Stand-Alone feature is designated on an EQSITE form (5722 Record), for the particular Remote Site.

For 5E5 and later Software Releases, if more than 10 Emergency TNs are defined for an SM entered in the LOCAL SM field, then the STAND ALONE field on the EQIM form must be "Y". Up to 10 Emergency TNs may be defined for an SM entered in the LOCAL SM even if the SM does not have the stand-alone option (STAND ALONE field on the EQIM form is "N").

1.6 Stand-Alone Announcement

If the Remote Site is equipped with a Stand-Alone announcement, then all dialed numbers that terminate outside the Remote Site will get the Stand-Alone announcement when the Remote Site goes into Stand-Alone mode except the emergency numbers specified on this form.

1.7 EMROFC Form (5116 Record)

The EMROFC form defines alternate routing for calls that originate outside an isolated Local SM (or Remote Site) when those calls would normally route to an Emergency Number on the SM or Remote Site.

For 5E5, the AM (for 5E6 and later, the CMP (Communication Module Processor)) can reroute up to 500 emergency numbers throughout the office.

For information on the EMROFC form, see Division 3, Section 1P.

1.8 Recent Change View

The corresponding Recent Change View for this form is 4.9.

View 4.9 corresponds to both the EMRNM form (5108 Record) and EMROFC form (5116 Record). When REMOTE SITE is 1 - 174 on View 4.9, it refers to the EMRNM form; when REMOTE SITE is 0, it refers to the EMROFC form.

2. FORM AND RECORD ENTRIES

2.1 (*) REMOTE SITE

Description: Enter the Remote Site number.

Valid Entries: 1 - 174

Data Rules:

Either this field or the LOCAL SM field must be entered.

The REMOTE SITE number must be defined on the EQSITE form with the STAND ALONE PURCHASED? field equal to "Y".

If more than 10 EMRNM forms are entered, STAND ALONE PURCHASED? must be set to "Y" on the corresponding EQSITE form.

If a REMOTE SITE corresponds to an ORM or TRM site (defined on the EQIM form) and has STAND ALONE PURCHASED? set to "N" on the EQSITE form, the ALT TN field must be entered on this EMRNM form.

When TN(s) are assigned a Remote Site and are defined on the MLHLN form, with equipment numbers on SM(s) at the REMOTE SITE, this is an extraneous condition as there is no need to reroute calls from within the SM to these Multiline Hunt Group lines.

2.2 (*) LOCAL SM

Description: Enter the Local Switching Module number.

Valid Entries: 1 - 192

Data Rules:

Either this field or the REMOTE SITE field must be entered.

For 5E5 and later, the SM value entered must be defined on an EQIM form with an SM USAGE value of "IM" or "HIM".

For 5E9(2) and later, if any Local SM is assigned to more than 10 Emergency TNs, STAND ALONE on the EQIM form must be "Y" and UNIT TYPE must be "SM2000".

2.3 * EMER TN

Description: Enter the Emergency Telephone Number that is not served by the Remote Site or Local SM and that will be rerouted to either the local ALT TN or to an Outgoing Trunk Group when the Switching Module is in Stand-Alone mode.

A single digit is usually zero, used for zero minus calls. A three-digit number might be a service type number such as 911. If a three-digit number is to be rerouted in emergency Stand-Alone mode, the CONV form (5300-4 Record) must be checked to see if that three-digit number is being code converted. If it is code converted, enter the CONV TN, not the three-digit number, in this field. Seven- or ten-digit numbers of the type NXX-XXXX or NPA-NXX-XXXX may be also entered in this field. International numbers may also be entered with either a 01 or 011 prefix. The field PREFIX is used for international numbers where a prefix is required.

For 5E5 and later, if Stand-Alone is available on the Remote Site or Local SM, then a range of Telephone numbers may be entered for an Emergency Number. Each entry in the emergency routing list is either a TN or a range of TNs that need to have the same alternate routing treatment when a switching module is isolated from the host 5ESS Switch.

To specify a range of telephone numbers, use the wild-card character (*). Possible entries using the wild-card character are as follows:

```
0
XXX
XXX-XXXX
XXX-XXX-XXXX
XXXXX-XXX-XXX-XXXX
XXX-XX**
XXX-***
***_***
XXX-XXX-XX**
XXX-XXX-***
XXX-***_***
*****_***_***_****
```

The X is a value 0-9. The wild-card (*) character matches any dialed digit at that position.

When determining the order of precedence for matching emergency routing TNs, if an exact match fails on the entire TN, then partial matches are attempted with wild-card digits (*) in the hundreds group, in the whole office code, in the entire area code, and lastly for all 15 digits.

A range of telephone numbers specified with a wild-card character must not overlap another range of telephone numbers for a remote site or local SM in this relation. If an overlap occurs and the modules in stand-alone are connected by IMTs, a routed number that is overlapped would appear to terminate in both modules. This would result in the number looping through all the members of the IMT group until it is blocked.

After a call has been routed to a fixed route or announcement trunk, reorder is given instead of emergency routing. For example, this would occur when a mis-dialed call to an unassigned TN accesses the routing module for that number. Calls to the Operator or 911 that would have terminated to announcement because of stand-alone condition are allowed to emergency alternate route.

Stand-Alone Test Lines allow testing of emergency number rerouting for an RSM/ORM/SM site when the RSM/ORM/SM site is not in stand-alone mode. The lines must have an LCC (Line Class Code) with a SERVICE CLASS of "SATSTLN" and a TERMINATING TREATMENT of "INDIV". When conducting the stand-alone rerouting test from the RSM/ORM/SM site, the lines may be used to originate and dial each of the emergency numbers which is normally rerouted during stand-alone operation.

Valid Entries:

5E9(1) and earlier: 1 - 15 digits (0 - 9, "#", or "**")

5E9(2) and later: 1 - 15 digits (0 - 9, or "**")

Data Rules:

For 5E9(1) and later, if a wild-card character "*" is entered, the corresponding LOCAL SM must have STAND ALONE set to "Y" on the EQIM form.

Emergency TNs assigned to Local SM values must have the SM value defined on the EQIM form with SM USAGE equal to "IM" or "HIM".

2.4 PREFIX

Description: Enter the prefix dialed with the Emergency TN. For zero minus calls, enter "NONE". For 01 prefixed international calls, enter 0. For 011 prefixed international calls, enter 1.

Default: "NONE"

Valid Entries: 0, 1, and "NONE"

Data Rules:

PREFIX is required if an EMER TN is specified.

2.5 ALT TN

Description: Enter the Alternate Telephone Number to which customers will be routed when they dial the Telephone Number entered in the EMER TN field.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and

X is 0 - 9

Data Rules:

The Telephone Number must be assigned to a Local SM or Remote Module associated with a Remote Site which is also assigned on the LINE, DSL, MTNDR or MLHLN forms. The seven-digit number must also be associated with an equipment number (i.e., LCEN, LEN or SLEN) where the SM value is defined as the particular Remote Site or Local SM.

Either this field or the RI field must be entered.

For 5E9(1) and later, when Alternate Emergency TN(s) are specified on the EMRNM input form, these ALT TNs must be defined on either the DSLUSR (as CKT TN or CKT MLHG TN), LINE, MLHLN, or the MTNDR input form with the following restrictions:

- The LCC/RAX must correspond to one of the following Terminating Treatments, defined on the LCC form:
 - "PARTY" or "INDIV" for TNs on the LINE, MTNDR forms
 - "INDIV" for CKT TNs on the DSLUSR forms
 - "INWATS" or "MLHG" for TNs on the MLHLN forms or CKT MLHG TNs on the DSLUSR forms.
- 2) The intercept field ICP must equal "N"
- 3) Equipment Number must be entered on the DSLUSR, LINE or the MLHLN form.
- 4) For the MTNDR form, ICP and INWATS must be "N".

When RSM Alternate Emergency TN(s) are specified on an EMRNM input form and are assigned on the MTNDR input form; the SM portion of the associated OE NUMBER on the associated LINE form, where OE TYPE is equal to "A", "C", "E", "G", "L" or "S", must equal any of the RSM(s) at this EMRNM entry's REMOTE SITE.

When the Alternate Emergency TN(s) are specified on the EMRNM input form with LOCAL SM entered, and the LOCAL SM is defined on an EQIM form with STAND ALONE set to "N", the ALT TNs must be defined on either the LINE, MTNDR or the DSLUSR input form (as CKT TN) with the following restrictions:

- The LCC/RAX must correspond to one of the following Terminating Treatments, defined on the LCC form:
 - "PARTY" or "INDIV" for TNs on the LINE, MTNDR forms or
 - "INDIV" for CKT TNs on the DSLUSR forms
- Equipment Number must be submitted on the DSLUSR or the LINE form. Also, the OE TYPE must equal "A", "C", "E", "G", "L" or "S" on the LINE form.
- The INWATS field must equal "N" on MTNDR form.

- The intercept field (ICP) must equal "N"

NOTE: For TNs defined on the MTNDR form the Terminating treatment and the OE TYPE are determined from the LINE form associated with this MTNDR form. The ICP field is on the MTNDR form.

When Alternate Emergency TN(s) are specified on an EMRNM input form with a known REMOTE SITE and are assigned on the LINE input form, the SM portion of the associated Number on the LINE form, where OE TYPE is equal to: "A", "C", "E", "G", "L" or "S", must equal one or all of the SM(s) at this EMRNM entry's REMOTE SITE.

When ALT TN(s) are specified on the EMRNM input form and are assigned on the MLHLN input form; then the SM portion of the associated NUMBER on the MLHLN form, where OE TYPE is equal to: "A", "C", "E", "G", "L" or "S", must equal one or all of the SM(s) at this EMRNM entry's REMOTE SITE.

When RSM Alternate Emergency TN(s) are specified on an EMRNM form and are assigned on the DSLUSR input form (as CKT TN or MLHG TN), the SM portion of the associated OE on the DSLUSR form must equal an RSM at this EMRNM entry's RSM SITE.

For 5E12 and later, if the first 3 digits of the 7-digit ALT TNs on the EMRNM form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit ALT TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.6 RI

Description: Enter the Route Index associated with the Outgoing Trunk Group to which customers will be routed when they dial the Telephone Number entered in the EMER TN field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The associated Trunk Group may be local or global, but at least one trunk member must be equipped on this Remote Site or Local SM. That is, the trunk member must have an equipment number where the associated SM value is defined as one of the modules at the Remote Site or Local SM. The route index entered must be defined on an RTIDX form (5303 Record).

For 5E5 and later, if this field is entered, then the ALT TN field must not be entered. If this field and the LOCAL SM field are entered, the STAND ALONE field on the EQIM form must be "Y".

For 5E9(1) and later, if an RI is assigned for a REMOTE SITE or LOCAL SM, the RI value must be defined on an RTIDX form.

2.7 OUTPUTSED DIGITS

Description: If a Route Index is entered in the RI field, enter the number to be outputted over the Trunk Group. The digits are subject to digit deletion and prefixing that is defined for the Route Index.

Valid Entries: 1 - 15 digits

Data Rules:

If this field is entered, the RI field must be entered.

```
emrnm                      5ESS Switch          _
(5108)                     OFFICE DATA ADMINISTRATION
                           EMERGENCY TN (REMOTE SITE/LOCAL SM) ASSIGNMENT

(*) 1. REMOTE SITE          034
(*) 2. LOCAL SM             ____
*3. EMER TN                 5230000
  4. PREFIX                 NONE
  5. ALT TN                 5231234
  6. RI                     ____
  7. OUTPUTSED DIGITS      _____
```

Figure 1 SAMPLE EMRNM FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
emrnm                      5ESS Switch          _
(5108)                     OFFICE DATA ADMINISTRATION
                           EMERGENCY TN (REMOTE SITE/LOCAL SM) ASSIGNMENT

(*) 1. REMOTE SITE          ____
(*) 2. LOCAL SM             ____
*3. EMER TN                 _____
*4. PREFIX                 ____
  5. ALT TN                 _____
  6. RI                     ____
  7. OUTPUTSED DIGITS      _____
```

Figure 2 SAMPLE EMRNM FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 1I: 5109-1/2/3/4 RECORD TELEPHONE NUMBER FORM - LINE

1. GENERAL

The 5109-1/2/3/4 Records are available with 5E2 and later Software Releases. These records define the Office Equipment Number and features for each TN (Telephone Number) in a 5ESS Switch.

The 5109 printout and the 5109-1 Record contain identical data for all assigned TNs. The 5109-1 prints all TNs (including unassigned) within a hundreds group if at least one TN within the hundreds group is assigned. The 5109 Record prints only those TNs that are assigned to Equipment Numbers or Route Indexes on the LINE and/or MLHLN (5111 -1/2/3 Record) input forms. The 5109-2 and 3, supplements to the 5109-1, lists all 5109-1 TNs with optional supplemental data.

The 5109-2 and 5109-3 Records define supplemental line information not included on the Telephone Number Record. The 5109-1 Record is based on data from both the LINE and MLHLN input forms. The 5109-2/3 Record contains data from both the LINE and MLHLN input forms.

Supplemental information that is entered on the 5109-2/3 Record is referenced from the 5109-1 Record. For ease in use, on initial forms preparation, it is suggested that these records be dedicated by 100s groups. That is, each page of the record would be dedicated to a group of 25 contiguous TNs, four pages per 100 numbers.

1.1 TNs

A TN is a 7-digit number consisting of an NXX and any number from 0000 - 9999. For 5E3 through 5E11 and later, the TN format is XXXXXXXX, where X is a number from 0 - 9. For 5E12 and later, the TN format is XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9. This format supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198. There is no restriction on the assignment of TNs in the 5ESS Switch.

Unassigned TNs must not be submitted to the 5ODA data base. They are automatically routed to blank number intercept.

1.2 Hunting Arrangements - Series Completion And MLHG

The 5ESS Switch offers two types of hunting arrangements: Series Completion and MLHG. Lines assigned to Series Completion are hunted by TN while lines assigned to an MLHG are hunted by Terminal Number. (See Business and Residential Non-Modular Features, 235-190-102, for more information and recommendations for using the Series Completion Feature.) The following considerations should normally be used when making assignments for hunting arrangements for Series Completion or MLHG.

Series Completion

- NON-PBX Class Of Service customers with sixteen or less lines. (Eight or less lines are normally recommended.)
- Low traffic usage.
- Does not require rapid connect time to the called party.
- PBX Class Of Service customers with five or less lines and no special features, e.g., End Hunt or Make Busy Keys.

MLHG

- NON-PBX Class Of Service customers with nine or more lines.
- PBX Class Of Service customers with six or more lines.
- PBX Class Of Service customers with special features, e.g., End Hunt or Make Busy Keys.
- Any Class Of Service customers requiring Hunt.
- INWATS.

1.3 Essential Lines

TNs that require Essential Service Protection, which is part of the Overload Control Capability, must be assigned to a LEN, SLEN, MEN, or GEN designated as Essential. When a 5ESS Switch is in an overload condition and the Overload Control is turned on, then all lines designated as Essential Lines have the Essential Service Protection feature and receive priority origination scanning.

There is no limit on the quantity of LENS, SLENS, GENs, or MENs that can be assigned as Essential Lines with the following exception:

To make sure there is no internal blocking on origination scanning, there should be only one LEN assigned with the EL field set to "Y" from a group of four LENS that share the same first 7 digits of their LEN. Example:

External LEN breakdown					
SM	LU	CONC	SWG	SW	LEV
1-192	0-7	0-9	0-1	0-7	0-3

There are four Level values 0 through 3 for a given 7-digit value of SM/LU/CONC/SWG/SW. Only one of the four LEVs should have the EL field set to "Y".

LEN	00	1	3	0	0	4	0
LEN	00	1	3	0	0	4	1
LEN	00	1	3	0	0	4	2
LEN	00	1	3	0	0	4	3

It is recommended that Essential Lines be distributed evenly across the Line Equipment Numbers. Care should be given to assign to an Essential Line, only those customers that actually require Essential Service Protection.

1.4 Loop-Start Lines

Most customer lines are loop-start lines that generate an origination by closing the path between the tip and ring at the station set (forming a loop). Scanning is done at the Central Office by applying a voltage between the tip and ring and sensing the loop current flow produced by the customer line origination.

1.5 Ground-Start Lines

Ground-Start lines (e.g., coin-first coin phones and PBX-CO trunks) generate an origination by grounding the ring conductor at the station set. Scanning is done at the Central Office by applying a voltage with respect to ground on the ring conductor and sensing the current flow in the ring conductor produced by the customer line

origination. Since certain PBXs interpret a ground on the tip conductor to mean something else (disconnect, etc.), the tip conductor at the Central Office is disconnected during scanning on Ground-Start Lines. The tip conductor is disconnected under software control in the 5ESS Switch. Thus, any Line Equipment Number may be assigned as Ground Start. Ground Start should be entered as an equipment option in the GST field.

1.6 Entry Restrictions for Coin Lines

For TNs assigned as coin lines, entries are restricted in the following fields:

Entry Restrictions for Coin Lines	
Entry	Restrictions
COIN	must be SPP, CF, or DTF
DNYBY	must be "N"
NO DIAL	must be "N"
SERHLN	must be blank
RTI	must be blank
FLS	must be "N"
SUSO	must be "N"
SLEEVE	must be blank
MAKE	must be blank
ALT	must be blank
RINGBACK	must be "N"
STATMON	must be "N"
OE TYPE	Software Release: 5E8 and later As provisioned: LEN, SLC, GEN, MEN (5E8-5E9(2)), AIU.
BRCS	must be "N"

1.7 Entry Restrictions for Party Lines

For TNs assigned with party Classes Of Service (TWOPTY, 4PFS, 4PSS, 8PSS, 5PTY, 10PTY) and non-MFR Individual Lines (MFRI of "N" and PTY of 0-9, T or R), entries are restricted in the following fields:

Entry Restrictions for Party Lines	
Entry	Restrictions
COIN	must be "N"
GST	must be "N"
DNYROH	must be "N"
FLS	must be "N"
DNY	must be "N"
MAKE	must be blank
SLEEVE	must be blank
RINGBACK	must be "N"
STATMON	must be "N"
OE TYPE	Software Release: 5E8 and later As provisioned: LEN, SLC, GEN, MEN (5E8-5E9(2)), AIU

Additional restrictions for multi-party TNs that are non-MFR Individual. Class Of Service of 4PSS, 4PFS, 8PSS, 5PTY, 10PTY. PTY of 0-9 and MFRI of "N".

Entry Restrictions for Party Lines	
Entry	Restrictions
NO	must be "N"
SERHLN	must be blank
SUSO	must be "N"
SUST	must be "N"

Restrictions on line equipment related options for all TNs that share either a LEN, SLEN, GEN, or MEN with a 2-party or multi-party Class Of Service. The following equipment options must remain the same value for all TNs that share the same LEN, SLEN, GEN, or MEN: GST, TSTLINE, RANGE, LNEQCLSS.

1.8 LEN Restrictions for Dedicated Lines

When defining a LEN for a dedicated line, the following fields should be populated:

Dedicated Line LEN Restrictions	
Field	Entry Required
PTY	I
CIDIAL	DENY
TTC	Y
BRCS	N
FGA	N
FLS	N
SUSO	Y
DNY ROH	N
COMPL	N
SLUS	N
DTLBILL	N
TRAFFIC	N
DNY BV	N
SERHLN	BLANK
NO DIAL	N

1.9 Recent Change View

The corresponding Recent Change View for this form is 1.1.

2. FORM ENTRIES - 5109-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number, Office Name and NXX for all TNs on that page.

2.2 *TN

Description: The local Telephone Number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

A Dial Tone Delay Alarm (External Sanity Monitor) is required in all offices. Two TNs are required, one of which must be denied origination (SUSO is "Y").

Also, SUST must be "N", PTY must be "I", and a NUMBER, where OE TYPE is "C" or "L", must be specified.

NOTE: The External Sanity Monitor has been discontinued and is no longer required after 1990.

For 5E6 and later, when both TN and SERHLN are entered, a corresponding LCC form (5306 Record) must have TERMINATING TREATMENT set to "INDIV" or "INWATS" and CLASS OF SERVICE set to "INDIV", "B911", "PBX" or "ATND".

When TN has an LCC/RAX combination with a Service Class of "B911" on the LCC form and a Series Completing Hunt to Number, the SERHLN value on this form must have an LCC/RAX combination with a Service Class of "B911".

For 5E8(1) and later, TNs assigned an Advanced Service Interface feature via the LINEFA, CLUSTR, or BFG

form can not have the NO DIAL field on the LINE form set to "MAN".

For 5E9(1) and later, when the TN on the LINE form has a corresponding CLASS OF SERVICE of "MODEM" on the LCC form, it cannot also be assigned an ARS (Automatic Route Selection) feature on either the LINEFA form, the BFG form, or an associated CLUSTR form. Also the QUEUE ALLOWED field cannot be set to "Y" on the ARSLPA, BFG, or ARSFD forms.

TNs defined on an IMINFO form (5510 Record) or a COTH form (5513 Record) must have a PRECUT STATUS of "ACTIVE".

For 5E9(1) and later, when TNs defined on the LINE form have an LCC/RAX combination defined on the LCC form with a TERMINATING TREATMENT of "ASIRA", the following LINE form fields must be set:

- OE TYPE/NUMBER must be null
- SUST must be "N"
- DNY BV must be "N"
- SHARED must be "N"

For 5E9(1) and later, when TN(s) appear on the LINE form where the COIN field is not equal to "N", the corresponding LCC form CLASS OF SERVICE must be "COIN" or "CHGCALL".

For 5E9(1) and later, when TN(s) on the LINE form have their COIN feature set to "SPP" or "DTF" or "CF", the associated LCC/RAX combination must correspond a Service Class of "COIN" or "CHGCALL" on the LCC form.

For 5E9(1) and later, when TNs defined on the input line form have an LCC/RAX combination assigned on the LCC form that is associated with a SERVICE CLASS equal to "LTPCLBCK", the input TSTLINE field must equal a value of "Y".

If two-party or multi-party TN(s) defined on the LINE input form, are associated with a unique NUMBER, where OE TYPE is equal to "A", "C", "G", "L", "M" or "S", but the Tip or Ring assignment (for 2-party) or the PTY is 1-9, 0 and MFRI is "N", then the assignment (for 2-party MFR or multi-party) can not be duplicated.

TN(s) on the LINE input form that specify Single Party lines (PTY is "I" and MFRI is "N") or Multifrequency Ringing Individual lines (PTY is 1-9, 0 and MFRI is "Y"), can not have a common OE NUMBER, where OE TYPE is equal to "A", "C", "E", "G", "L", or "S".

The following TN(s) on the LINE form have the MFRI field set to "Y" or the LCC/RAX combination on the LINE form matches a LCC/RAX with an associated CLASS OF SERVICE value of "2PTY", "5PTY" or "10PTY" on the LCC form identifying a MFR type of line. All MFR lines must have OE TYPE on the LINE form set to "A", "C", "G", "L" or "S" (Note: "A", "G" or "S" is not valid for "2PTY" and "10PTY") and the first three digits of NUMBER must be defined on an IMINFO form with MFR FREQUENCY CLASS equal to "HAR", "DEC" or "SYN".

If a TN or MLHG/TERM defined on the LINE or MLHLN form with an OE TYPE of "A", "C", "E", "G", "L", or "S" and NUMBER combination, then it can not be duplicated between Individual MFR or non-MFR lines (PTY is "I" and MFRI is "N" or PTY is 1-9, 0 and MFRI is "Y") or duplicated between an Individual line (MFR or non-MFR) and a multi-party line (PTY set to 1 - 9, 0, "T", "R" and MFRI is "N").

When TNs are defined on the LINE form with PTY set to "T", "R", "1 - 9", "0" and MFRI set to "N", then the LCC/RAX combination must be associated with the appropriate Service Class/Terminating Treatment combination on the LCC form. OE TYPE must also equal "A", "C", "E", "G", "L" or "S".

I

Service Class/Terminating Treatment Combinations		
PTY	SERVICE CLASS	TERM TREATMENT
T or R	TWOPTY	PARTY
1 - 4	4PSS,4PFS,8PSS, 2PTY,5PTY,10PTY	PARTY
5	8PSS,5PTY,10PTY, 2PTY	PARTY
6 - 8	2PTY,8PSS,10PTY	PARTY
9,0	2PTY,10PTY	PARTY

For 5E10 and later, when the TN(s) appear on the LINE form with a matching TN(s) on the LINEFA form with an ASP FEATURE or a CLUSTER containing an ASP feature assigned, and on the associated ASPFD or ASPLPA form an OHD TRIG NBR or TA TRIG NBR has been entered, the corresponding NSTRIG form SERVICE ALWD must not be "CSD".

For 5E12 and later, if the first 3 digits of the 7-digit TN(s) on the LINE/MLHLN form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7- digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, the TN(s) entered on the LINE form, the NXX (the first 3 digits of a 7-digit TN) or the NPA/NXX combination (the first 6 digits of a 10-digit TN) must be defined as OFFICE CODE or NPA/OFFICE CODE, respectively, on the NOC form.

For 5E12 and later, TNs on different LINE forms cannot be duplicated.

For 5E12 and later, if the TNs on the LINE form have SERHLN entered, the equivalent 10-digit SERHLN cannot equal the equivalent 10-digit TN on the same LINE form.

For 5E16(2) and later, the TNs entered on the LINE form where LCC and RAX are defined on an LCC form. The LINE' form must have the following fields set as specified:

TSTLINE = "N"

GRNDREF = "N"

RANGEX = "NONE"

LNEQ = "N"

SHARED = "N"

ASSOC OE TYPE NUMBER = unknown

SLEEVE LEAD CKT = unknown

2.3 #RAX

Description: Enter the Rate Area Exchange center number. This field is used to identify "rate centers" that are established by tariffs for routing and charging. It is used in association with the SCREENING INDEX and DAS (Digit Analysis Selector) fields on the LCC form (5306 Record). Note that this field is the same (functionally) as the RATE AREA field on the LCC form.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

Data Rules:

For 5E4(2) and later, an individual line or a line assigned in a Series Completion chain may have a RAX/LCC combination defined on a LCC form with a TERMINATING TREATMENT of "INWATS"

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

2.4 #LCC

Description: The Line Class Code. This entry determines the class of service and terminating treatment. Along with the RAX entry, this entry also determines the Digit Analysis Selector used for routing and charging of calls.

Required Field

Valid Entries: 3 characters

Data Rules:

When the line is assigned an LCC/RAX combination defined on an LCC form where the Service Class is "CALLBK", the following fields on this form must be set as specified:

- OE TYPE must be:
 - "C", "L", "S", or "G";
 - "M" (5E8 through 5E9(2) only),
 - "E" (5E11 and later)
- SUSO must be "Y";
- for 5E7 and later, TTC must be "Y".
- for 5E9(1) and later, LOCAL TALK & MONITOR TN on the TLWS form (5511) must be entered for this TN.

For 5E10 later, when Telephone Number(s) on the LINE form have an LCC/RAX combination that appears on the LCC form with a Service Class of "LTPCLBCK", the following restrictions must hold:

- OE TYPE must be:
 - "C", "L", "S", or "G";
 - "M" (5E8 through 5E9(2) only),
 - "E" (5E11 and later)
 - "A" (5E12 and later)
- TN must not be defined as MASTER TN on the MTNDR form.

- The LINE form must have the following values:

SHARED must be "N"

NO DIAL must be "N"

DNY ROH must be "N"

SERHLN must be unknown

DNY BV must be "N"

TRAFFIC must be "N"

DTLBILL must be "N"

FGA must be "N"

SLUS must be "N"

COMPL must be "N"

SUSO must be "Y"

For 5E7 and later, if the corresponding LCC form has CLASS OF SERVICE of "RCDM", the following fields must be set as specified:

- AC ALW must not be entered or equal "N",
- ANI7 must equal "N",
- AR ALW must not be entered or equal "N",
- ASSOC OE TYPE/NUMBER must not be entered
- BRCS must equal "N",
- CIDIAL must equal "DENY",
- COMPL must equal "N",
- COT ALW must not be entered or equal "N",
- DNY BV must equal "N",
- DNY ROH must equal "N",
- DTLBILL must equal "N",
- EL must equal "N",
- FGA must equal "N",
- FLS must equal "Y",
- GNDREF must equal "N",
- ICP must equal "N",
- LNEQ must equal "N",
- MAKE BUSY KEY must not be entered,
- MFRI must equal "N",
- NO DIAL must equal "N",
- PCP ALW must not be entered or equal "N",
- PRIVACY must equal "N",
- PTY must equal "I",
- RANGEX must equal "N" or "NONE",
- SCA GA ALW must not be entered or equal "N",

- SCF GA ALW must not be entered or equal "N",
- SCR GA ALW must not be entered or equal "N",
- SDA GA ALW must not be entered or equal "N",
- SERHLN must not be entered,
- SHARED must equal "N",
- SLEEVE LEAD CKT must not be entered,
- SLUS must equal "N",
- SUSO must equal "N",
- SUST must equal "Y",
- TRAFFIC must equal "N",
- TRC must equal "N",
- TSTLINE must equal "N"

2.5 OE TYPE

For 5E12 and later, this field has been renamed OE. For information, see the OE field description.

2.6 NUMBER

For 5E12 and later, this field has been renamed OE. For information, see the OE field description.

2.7 OE

Description: This field has an entry for TYPE and an entry for NUMBER. This field is used in conjunction with the OE NUMBER field to define Equipment Types and Numbers (see the OE TYPE and the OE NUMBER tables below).

OE TYPE was added to this form, effective with the 5E3 and later to accommodate the addition of 4-Wire Analog Lines (TEN) and 4-Wire Digital Lines (DEN).

When defining a dedicated line LEN, refer to the DEDICATED LINE LEN RESTRICTIONS in this section.

TYPE:

Valid OE TYPE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TR-303 on DNU-S (INEN). See Division 2, Section 9J. Software Release: 5E13 and later. See Division 2, Section 4A349 for TSI Nail-Up of Consecutive DS0s For DNU-S.
C	The TN is associated with ISLU Line Card Equipment Number and Number field must contain an 8-digit equipment number.
D	The TN is associated with a 4-wire Digital Equipment Number and Number field must contain an 8-digit DEN. Software Release: 5E15 and later The DEN was expanded to 10-digits.
E	Software Release: 5E11 and later: The TN is associated with an AIU (Access Interface Unit).
G	Software Release: 5E8 and later. The TN is associated with an IDCU (Integrated Digital Carrier Unit) Equipment Number and Number field must contain a 10-digit equipment number (GEN) for a remote terminal or a PUB43801. For 5E10 and later a 11-digit equipment number is required.
L	The TN is associated with an analog-type Line Equipment Number and Number field which must contain an

	8-digit LEN for 5E9(1) and earlier and a 10-digit LEN for 5E9(2) and later.
N	Software Release: 5E12 and later. The TN is associated with a 4-wire line on DNU-S Network Equipment Number and Number field must contain a 10-digit NEN. Software Release: 5E13 and later. The VT (Virtual Tributary) field defined on the EQVT form (5858 Record) was split which resulted in an 11-digit NEN.
O	Software Release: 5E16 and later. OIUEN (Optical Interface Unit Equipment Number)
S	The TN is associated with SLC-96 Equipment Number and Number field must contain an 8-digit SLEN. Software Release: 5E15 and later. The SLEN was expanded to 10-digits.
T	The TN is associated with a 4-wire analog Trunk Equipment Number and Number field must contain a 7-digit TEN.

Data Rules:

If BRCS Features are specified, either the OE Type must be entered or ICP must be "Y".

If OE TYPE is entered, then OE NUMBER and PTY (party) must entered.

If OE TYPE is "D", "N", "O", or "T"

- PTY must be "I"
- CLASS OF SERVICE must be "4WINDIV" on the corresponding LCC form (where LCC and RAX match the LCC and RAX on this form)
- When the OE TYPE on a LINE form is equal to "D", "N", "O", or "T", the SM referenced in the OE NUMBER cannot be an SM where the EQIM form has a value for CONFIGURATION which does not support 4-wire lines.
- For 5E8 and later, MFRI, FGA, BUSY MONITOR, and ANI7 must be "N" on this LINE form; SERHLN, ATT MLHG, and RBV TGN must be blank.

If "A", "C", "E", "G", "L", or "S" is entered; the CLASS OF SERVICE on the corresponding LCC form cannot be equal to any of the following: "4WINDIV", "ISATND", "ISDN", "TAOPER" or "XDB". The LCC form corresponds to this form if the LCC and RAX match.

5E8 and later:

When Telephone Number(s) are assigned on the LINE input form with OE TYPE set to "S" (SLEN) and have a SLC Channel Unit Type of "COIN" defined on the SLCCU form, and the LCC form which corresponds to this LINE form has an LCC-CLASS OF SERVICE of either "INDIV" or "PBX", the Channel Unit Type/CLASS OF SERVICE combination requires that the CLSS field be set to "Y" on the LINE form.

5E9(1) and later:

Telephone Number(s), assigned on the LINE input form to IDCU equipment (OE TYPE is equal to "G" or "M"), must have the proper RTERM Channel Unit to LCC-Service Class correspondence. The LCC/RAX combination assigned on the LINE form must be defined on the LCC form with an associated Service Class that matches the CUXX/YY type on the RTERM input form. Errors will be reported for RTERM forms where RT INTERFACE is "TR008". Refer to the following Table for the required correspondence:

LCC TO RTERM CORRESPONDENCE	
LCC SERVICE CLASS	RTERM CU XX/YY

COIN	COIN, FSR, SSV00, SSV10
PBX, HOTPBX	FXS, FSR, SPOTS, SF1*, DFXS*
HOTMOTL	FXSLS, SPOTS, SF1*, DFXS*, SSV00, SSV10
B911, CHGCALL	SP, SPOTS, SSV00, SSV10
INDIV	FXSLS, SP, SPOTS, FSR, MP, SF1*, DFXS*, SSV00, SSV10
4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
TWOPTY	MP, SSV00, SSV10
5PTY	FSR, SSV00, SSV10

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

Telephone Number(s), assigned on the LINE input form to SLEN equipment (OE TYPE is equal to "S"), must have the proper SLC Channel Unit to LCC-CLASS OF SERVICE correspondence. The LCC/RAX combination assigned on the LINE form must be defined on the LCC form with an associated CLASS OF SERVICE that matches the CU TYPE on the SLCCU input form. Refer to the following Table for the required correspondence:

LCC CLASS OF SERVICE TO SLCCU CU TYPE	
LCC SERVICE CLASS	SLCCU CU TYPE
COIN	COIN, FSR, SSV10
PBX	COIN, FXS, FSR, SPOTS, SSV10, SF1*, DFXS*
HOTPBX	FXS, FSR, SPOTS, SSV10, SF1*, DFXS*
HOTMOTL	FXSLS, SPOTS, SSV10, DFXS
B911, CHGCALL	SP, SPOTS, SSV10
INDIV	COIN, FSR, FXSLS, MP, SP, SPOTS, SSV00, DFXS
4PSS, 4PFS, 8PSS, TWOPTY	MP, SSV10
5PTY	FSR, SSV10

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

When Telephone Number(s) are assigned on the LINE input form to NUMBER(S) where OE TYPE is equal to "S", and is defined on the SLCCU form as being associated with a Channel Unit type equal to "SF1" (5E9(1)), or "DFXS" (5E9(2) and later), and the CLASS OF SERVICE on the associated LCC form is "INDIV", the GST (Ground Start) on the LINE form must be "N".

When Telephone Numbers(s) are assigned on the LINE input form to NUMBER(S) where OE TYPE is equal to "G" or "M", that are defined on the RTERM form as being associated with a Channel Unit type equal to "SF1" (5E9(1)), or "DFXS" (5E9(2) and later), and the CLASS OF SERVICE on the associated LCC form is "INDIV", the GST (Ground Start) on the LINE form must be "N".

When Telephone Number(s) are assigned on the LINE input form to NUMBER(S), where OE TYPE is equal to "S", and are defined on the SLCCU form as being associated with a Channel Unit type equal to "FSR", "FXSLS", "MP", or "SP", the value of the GST (Ground Start) field on the LINE form must be "N".

5E11 and later:

If "E" is entered:

- TYPE on the EQAIUP form (5746 Record) must be "LP2ADSL", "AIZLP", "AICLP", or "AIGLP",
- the associated NUMBER must be specified in the AIU format and TYPE on the EQAIUP form (5746 Record) must be "LP2ADSL", "AIZLP", or "AIGLP".
- CLASS of SERVICE cannot be "2PTY", "4PSS", "4PFS", "8PSS", "5PTY", "10PTY", or "TWOPTY".

When OE TYPE is "C", "E", or "L", OE NUMBER(s) cannot be duplicated on the MLHLN form.

If the OE TYPE is "L", NUMBER(s) cannot be assigned to the LINE form and the MLHLN form. NUMBER(s) are mutually exclusive on these forms. If CLASS OF SERVICE on the associated LCC form is "B911", OE TYPE must be "C", "E", "L", or "S".

If the OE is in PUB43801 format, the RT must be defined on an EQIFAC form (5847 Record).

The ASSOC OE TYPE on the LINE form must be blank as LTSB (Line Time Slot Bridging) is not allowed on PUB43801.

If OE TYPE is "G" and in the RT format, the RTs must be defined on the RTERM form (5174 Record) with RT INTERFACE equal to "TR008" or "TR303".

If OE TYPE is a "G" unit that has a TR008 RT defined on the RTERM form, the SM/IDCU/RT values of the NUMBER must be defined on an RTERM form and the GEN and MEN LINE NO. value must be assigned to an appropriate IDCUC DIGRP with its STATUS equal to "O" (operational).

For 5E9(2) and later, if Telephone Numbers(s) assigned on the LINE input form are assigned to NUMBER(s), where OE TYPE is set to "G" that are defined on a RTERM form as being associated with a Channel Unit typeset to "FSR", "FXSLS", "MP", or "SP", the value of the Ground Start field (GST) on the LINE form must be "N".

If OE TYPE is a "G" or "M" unit that has a TR008 RT defined on the RTERM form, the LCC/RAX combination assigned on the LINE form must be defined on the LCC form with an associated Service Class that matches the CU (Channel Unit) types on the RTERM form.

If OE TYPE is a "G" or "M" unit that has a TR008 RT defined on the RTERM form, the OE NUMBER must correspond to a CU (Channel Unit) position with a known value defined on the RTERM form. The last two digits of the LINE NO. are determined by the CU value (xx/yy), where xx is in the odd number range of 01-95 and yy is xx + 1. Note that both LINE NO. (POS) values in the pair are assignable for CU xx/yy type equal to "FSR", "MP", "SP", "SSV00", "SSV10", "SF1" (5E9(1)), "DFXS" (5E9(2) and later) or SPOTS". Only the lower (odd) numbered LINE NO. value is assignable for CU xx/yy type equal to "COIN", "FXS", or "FXSLS".

5E13 and later:

If "E" is entered:

- OE TYPE of "N" must be defined on the EQVT form, VT EQSTAT and DS1S EQSTAT must be "O", and APPLICATION TYPE must be "TRUNK".

5E16 and later:

When OE type is "Y" on this form, SERV TYPE must be "CFS" on the ENETLINK form (5827 Record) for SM of OE number.

NUMBER:

Description: The Office Equipment Number.

Valid Entries: in one of the following formats.

For 5E9(2) and earlier, an 8- or 10-digit number

For 5E10 and later, a 10- or 11-digit number

If OE TYPE is "A", the INEN Equipment Number consists of:

TR-303 on DNU-S, Type A - 5E12 and later

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Line	LINE	XXXX	0001-2048

If OE TYPE is "C", this ISLU Line Card Equipment Number consists of:

OE NUMBER, TYPE C

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
Line Group Controller	LGC	XX	00 - 15
Line Card	LC	XX	00 - 31

The ISLU Line Card must be defined on an ISLULC form (5942 Record) with EQST set to "O" and TYPE set to "ZLC".

If OE TYPE is "D", this 4-wire Digital Equipment Number consists of:

OE NUMBER, TYPE D

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Line Trunk Unit	DLTU	X	0 - 5
		XX	(5E14 and earlier) 0 - 11
Digital Facility Interface	DFI	XX	(5E15 and later) 01 - 10
Digital Channel	DCHAN	XX	01 - 24
			01 - 48
			(5E5 and later)

When the DCHAN entered is greater than 24, the FAC InD on the EQDUP form (5730 Record) must be 3.

If OE TYPE is "E", this AIU Equipment Number consists of:

OE NUMBER, TYPE E - 5E11 and later

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	AIU	XXX	000 - 042
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 31
			Coin
			00 - 15

If OE TYPE is "G", this IDCU Equipment Number residing on a Remote Terminal consists of:

OE NUMBER, TYPE G - Remote Terminal (5E9(2) and earlier)

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

OE NUMBER, TYPE G - Remote Terminal (5E10 and later)

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	XX	00 - 42
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

If OE TYPE is "G", this IDCU Equipment Number residing on a PUB43801 consists of:

OE NUMBER, TYPE G - PUB43801			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
		XX	5E9(2) and earlier 00 - 42
			(5E10 and later) 51 - 90
DS1	DS1	XX	51 - 90
Line	LINE	XXXX	0001 - 0024

If OE TYPE is "L", this Line Unit Equipment Number consists of:

OE NUMBER, TYPE L			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
		XXX	(5E9(1) and earlier) 000 - 042
			(5E9(2) and later)
Concentrator	CONC	X	0 - 9
Switch Group	SWG	X	0 - 1
Switch	SW	X	0 - 7
Level	LEV	X	0 - 3

If OE TYPE is "N", this is the 4-wire Line on DNU-S. The DNU-S Networking Equipment Number consists of:

OE NUMBER, TYPE N (5E12 and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Networking Unit - SONET	DNU-S	X	0 - 7
Data Group	DG	X	0 - 1
Synchronous Transport Signal	STS	X	0 - 5
Virtual Tributary	VT	XX	01 - 28
Digital Signal Level 0	DS0	XX	01 - 24

OE NUMBER, TYPE N (5E13 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Networking Unit - SONET	DNU-S	X	0-7
Data Group	DG	X	0-1
SONET Termination Equipment	STE	X	1-6
Synchronous Transport Signal	STS	X	1
Virtual Tributary Group	VTG	X	1-7
Virtual Tributary Member	VTM	X	1-4
Digital Signal Level 0	DS0	XX	01-24

When OE is "O", this is the 4-wire Line on OIU. The OIUEN Equipment Number consists of:

OE NUMBER, TYPE "O" - (5E16 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
Protection Group	PG	X	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container Member	LVC MEM	X	1 - 4
Channel	CH	XX	01 - 24

If OE TYPE is "S", this SLC Equipment Number consists of:

OE NUMBER, TYPE S			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Carrier Line Unit	DCLU	X	0 - 7
		XX	(5E14 and earlier) 00 - 15
Remote Terminal	RT	XX	(5E15 and later) 01 - 06
Line	LINE	XX	01 - 96

The RT value defined on the MLHLN form must correspond to an RT assigned on the SLCRT form (5106 Record).

If OE TYPE is "T", this 4-wire analog Trunk Equipment Number consists of:

OE NUMBER, TYPE T			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Trunk Unit	TU	XX	00 - 07
Service Group	SVG	X	0 - 1
Pack	PACK	X	0 - 7
Circuit	CKT	X	0 - 3

If OE TYPE is a "G" or "M" unit that has a TR303 RT defined on the RTERM form (5174 Record), the RT EQSTAT on the RTERM must be "O" or "G".

If OE TYPE is a "G" or "M" unit that has a TR303 RT defined on the RTERM form, the assigned line value (OE NUMBER [7,10] for "G"; OE NUMBER [7,8] for "M") must not exceed the RT LINE SIZE on the RTERM form.

If OE TYPE is a "G" or "M" that has a TR303 RT defined on the RTERM form, the SM/IDCU/RT assigned values for (OE NUMBER [1,6] must have corresponding SM/UNIT NUMBER/RT EX values assigned on an RTERM form.

For 5E9(1) and later, when Telephone Number(s) are assigned on the LINE input form(s) to IDCU equipment (OE TYPE is equal to "G" or "M"), the following OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a value defined on the RTERM form. Note that the last two digits of the LINE NO. are determined by the CU XX/YY value (where XX is in the odd number range of 01-95 and YY is XX + 1). Both LINE NO. (POS) values in the pair are assignable for CU XX/YY type equal to "FSR", "MP", "SP", "SSV00", "SSV10", "SF1" (5E9(1)), "DFXS" (5E9(2) and later), or "SPOTS". Only the lower (odd) numbered LINE NO. value is assignable for CU XX/YY type equal to "COIN", "FXS" or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

OE NUMBER TO RTERM CORRESPONDENCE	
OE	RTERM
NUMBER[1, 3]	SM
NUMBER[4, 4]	UNIT NUMBER
NUMBER[5, 6]	RT EX
NUMBER[7, 8]	For OE TYPE equal to "M"
NUMBER[7, 10]	For OE TYPE equal to "G": POS value for CU XX/YY type equal to FSR, MP, SP, SPOTS, COIN, FXS, FXSLS, SSV00, SSV10, SF1*, DFXS*

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

For 5E9(1) and later when Telephone Number(s) are assigned on the LINE input form and are associated with a SLC equipment number (SLEN), the NUMBER must correspond to a Channel Unit Position with a known

value defined on the SLCCU form. Note that LINE NO. values of the NUMBER[7,8] entry are determined by the CU TYPE value. Both LINE NO. (POS) values in the pair are assignable for CU TYPE equal to "SP", "MP", "SPOTS", "FSR", "SF1" (5E9(1)) or "DFXS" (5E9(2) and later). Only the lower (odd) numbered LINE NO. value is assignable for CU TYPE equal to "COIN", "FXS", "FXSLS", "SSV00" or "SSV10".

SLEN TO SLCCU CORRESPONDENCE	
SLEN	SLCCU
NUMBER[1, 3]	SM
NUMBER[4, 4]	DCLU
NUMBER[5, 6]	REMOTE TERMINAL
NUMBER[7, 8]	POS value with CU TYPE equal to a value SP, MP, COIN, FXS, FXSLS, FSR, SPOTS, SSV00, SSV10, SF1, DFXS

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

For 5E8 through 5E9(2), TNs (Telephone Numbers) that have ports with OE TYPE set to "G" or "M" on the LINE form(s) which identify IDCU PUB43801 equipment by defining a DS1 value of 51 - 90 in OE NUMBER positions 5-6, the SM/IDCU/DS1 value assigned to the LINE OE NUMBER must have a related EQIFAC form having SM/IDCU/LSI/IFAC NUM with PUB43801 equal to "Y" and EQSTAT equal to "O".

For 5E10 and later, TNs (Telephone Numbers) that have ports with OE TYPE set to "G" on the LINE form(s) which identify IDCU PUB43801 equipment by defining a DS1 value of 51 - 90 in OE NUMBER positions [5 - 6], the SM/IDCU/DS1 value assigned to the LINE OE NUMBER must have a related EQIFAC form having SM/IDCU/LSI/IFAC NUM with PUB43801 set to "Y" and EQSTAT set to "O".

The LINE form(s) associated with OE TYPE and NUMBER on an MDFTA form must have the indicated fields populated as follows:

- BRCS must equal "N"
- COIN must equal "N"
- COMPL must equal "N"
- DNY BV must equal "N"
- DNY ROH must equal "N"
- DTLBILL must equal "N"
- FGA must equal "N"
- FLS must equal "N"
- GST must equal "N"
- NO DIAL must equal "N"
- PALIT must equal "Y"
- PSLIM must equal "Y"
- PTY must equal "I"
- SERHLN is null
- SLUS must equal "N"
- SUSO must equal "Y"
- TRAFFIC must equal "N"
- TSTLINE must equal "N"
- TTC must equal "Y"

For 5E10 and later, when OE NUMBER is blank,
 PTY must be blank
 PSLIM must be "Y"

For 5E16(2) and later, when the TSTHD form is defined with either TEST HEAD A or TEST HEAD B set to

"Y", OE NUMBER/ASSOC OE NUMBER on the LINE/MLHLN forms must not be defined.

2.8 RTI

Description: The Route Index number used for all calls terminating to the TN. A Route Index is required for any TN whose terminating calls reroute to an Announcement, Tone, PBX DID (Direct-In-Dial) or Trunk Group.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

If an entry is made in this field, then the values entered in the following fields must be:

ALT BILL TN is not entered

ANI7 is "N"

ICP is "N"

MFRI is "N"

OE TYPE/NUMBER is not entered

PTY is not entered

SERHLN is not entered

For 5E3 and later, if the OE TYPE and NUMBER fields are not entered and the ICP field is "N", then this field and/or the TEST CODE field must be entered.

All Route Index entries specified on the LINE form must be defined on the RTIDX form (5303 Record). The RTI entered on the LINE form will be replaced by that on the RAR form unless "REGL" is entered in the RTI field of the RAR form.

5ESS Switch reconstructs a 7-digit TN for either a line or trunk originated call terminating to a line which is a defined with a Route Index. When the Route Index is defined on the RTIDX form (5303 Record), deleting and prefixing of digits should be based on the reconstructed 7-digit TN.

For 5E9(1) and later, if RTI and TEST CODE are entered, then RTI must be defined as a ROUTE INDEX on an RTIDX form (5303 Record) with ROUTE TYPE set to "HUNT".

2.9 MLHG/TERM

Description: Not for ODA input. These fields represent a listing of all assigned TNs. Entries are printed, or entered, only for TNs assigned to MLHGs on the MLHLN form (5111 Record). This information is the same as that defined on the 5111-1/2 Records which are keyed by the MLHG/TERM combination.

The following entries are for record purposes only and do not appear on the LINE input form. These entries are generated by ODA when output is requested using the "records" command. An entry will appear whenever a telephone number has an associated entry on one of the forms below.

MLHG - TERM

These two entries represent the MLHG and Terminal Number entered on the MLHLN form.

MLHG - TYPE

These two entries represent the MLHG entered on the MLHG input form and the Hunt Type entered on the MLHGFD form.

HRTI - TYPE

These two entries represent the Hundreds Group Route Index Number entered on the HGRPAS form; TYPE will always be HRTI.

2.10 PTY

Description: The Party position or identifier of TNs.

Default: I

Valid Entries:

Valid PTY Entries	
Entry	Definition
I	Individual (single party)
T	Tip (Second party on a two-party line)
R	Ring (First party on a two-party line)
1-8	Standard (NON-MFRI) 4 and 8 Multi-party Service
1-9, 0	MFR Multi-party service with MFRI set to "N" and CLASS OF SERVICE set to "5PTY" or "10PTY" on the LCC form (5306 Record). Party position 10 is represented by 0.

Data Rules:

The MFR (Multi-Frequency Ringing) feature provides varied ringing frequencies over five frequencies and three frequency classes for either bridged or divided ringing (See Figure 4). This feature allows full selectivity on ringing through one of five frequency selections always using bridged ringing.

When an MFR line is assigned to a Line Unit (analog subscriber assigned a LEN), the Line Unit must be a Model 2 and all associated HLSC (High Level Service Circuits) on the EQLUP form (5711 Record) must be the MFR HLSC types. Also, MFR lines must be assigned to an SM with a valid MFR FREQUENCY CLASS specified on the IMINFO form (5510 Record).

When an MFR line is assigned to a DCLU Integrated SLC digital subscriber, then the customer LCC Service Class is restricted to 5PTY or INDIV and the party value must be 1-4 and use the SLC Channel Unit Type of FSR assigned on the SLCCU form. The frequency is provided based on a switch option of the Channel Unit.

Individual MFR lines are customers with an Individual CLASS OF SERVICE ("INDIV", "PBX", "HOTPBX", "COIN" or "SATSTLN") and may have any frequency or wiring configuration allowed with multi-party MFR lines when MFRI is "Y".

For MFR multi-party service, MFRI must be "N" and the CLASS OF SERVICE on the associated LCC form must be "5PTY" or "10PTY".

For MFR 2-party service, MFRI must be "N" and the CLASS OF SERVICE on the associated LCC form must be "2PTY". One customer must be a Tip side frequency and the other a Ringside frequency.

MFR Individual Service with MFRI set to "Y" and CLASS OF SERVICE on the LCC form is "INDIV", "PBX", "HOTPBX", "COIN" or "SATSTLN".

NOTE: The mixture of Touch Tone and Dial Pulse is not recommended for multi-party lines. Touch Tone fraud cannot determine customer originator for multi-party lines.

Ten-party lines combine one of the five frequency selections with divided ringing.

MFR lines do not interfere or relate to 2, 4, or 8 party non-MFR subscribers.

If CLASS OF SERVICE on the associated LCC form is "B911", PTY must be "I".

For 5E10 and later:

- Regular 2-party (PTY is "T" or "R") or MFR 2- party/multi-party (PTY is 1-9, 0 and MFRI is "N") LINE form entries must have the same values assigned to their TSTLINE and/or RANGEX input fields. The Telephone Numbers that share the same NUMBER, where OE TYPE is equal to "A", "C", "E", "G", "L" or "S", must have these features remain a constant value.
- Regular 2-party (PTY is "T" or "R") or MFR 2- party/multi-party (PTY is 1-9, 0 and MFRI is "N") LINE form entries must have the same values assigned to their respective Essential Line (Essential Service Protection) field. The value of EL must remain constant for all TN values on the LINE form that share the same NUMBER, where OE TYPE is equal to "A", "C", "G", "L" or "S".
- Two-party or multi-party TN(s) defined on the LINE input form that are associated with a unique NUMBER, where OE TYPE is equal to "A", "G" or "S", but the Tip or Ring assignment (for 2-party) or the PTY is 1-8 and MFRI is "N" assignment (for multi-party) can not be duplicated.
- LINE input forms that specify Single Party Remote Terminal lines (PTY is "I" and MFRI is "N") or Multifrequency Ringing Individual lines (PTY is 1-5 and MFRI is "Y"), require Equipment Numbers that are not duplicated as an OE NUMBER on any LINE form where the associated OE TYPE is equal to "A", "G" or "S".
- Multi-party lines (PTY is 1-8 and MFRI is "N") assigned to a NUMBER on the LINE form, where OE TYPE is equal to "A", "G" or "S", can not mix both Touchtone and Dialpulse between the TN(s).
- 2-party (PTY is "T" or "R") or multi-party (PTY is 1-8 and MFRI is "N") LINE form entries can not have different values assigned to their TSTLINE and/or RANGEX input fields. The Telephone Numbers that share the same NUMBER, where OE TYPE is equal to "A", "G" or "S", must have these features remain a constant value.
- TN(s) that are multiparty (PTY is "T", "R" 170 or 1-9, 0) on the LINE form and are assigned to a NUMBER, where OE TYPE is equal to "A", "C", "E", "G", "L" or "S", with the CARRIER GRP AL M feature; the CARRIER GRP ALM value must remain constant for all multiparty TN(s) that share the same NUMBER.
- 2-party lines (PTY is "T" or "R") or multi-party lines (PTY is 1-9, 0 and MFRI is "N") that share the same unique NUMBER on the LINE form, where OE TYPE is equal to "A", "C", "G", "L" or "S", must have the option of GNDREF remain the same value.
- When PTY is blank, PSLIM must be "Y".

Multi-party lines which share the same equipment must have the same class of service. Multi-party lines (PTY set to "T", "R", 1-9, or 0 and MFRI set to "N") that share the same unique NUMBER on the LINE form, with OE TYPE of "C", "G", "L" or "S", the CLASS OF SERVICE defined by the lines LCC and RAX on the LCC form must remain constant for all TN(s) which are assigned to the given NUMBER.

2.11 MFRI

Description: Will Multi-Frequency Ringing Individual be activated? An entry is required for all LINE entries.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For customers requiring Multi-Frequency Ringing and their CLASS OF SERVICE on the LCC form is one of the following: "INDIV", "PBX", "HOTPBX", "COIN", or "SATSTLN", then this field must be "Y".

When MFRI is "Y":

- a corresponding PTY value of 1 - 9, 0 is required to produce the correct ringing,
- OE TYPE must be "A", "C", "E", "G", "L", or "S".

When MFRI is "N" and PTY is 0 - 9, this Multi-party line cannot have BRCS.

MFRI must be "N" for all non-MFR customers and for MFR two-party and Multi-party customers with CLASS OF SERVICE "2PTY", "5PTY", "10PTY".

MFR lines of "5PTY" may be inhibited from revertive type calls if MFR REVERTIVE MANUAL is "Y" on the OFCOPT. If this item is "Y", then all Multi-party MFR customers that attempt to make revertive type calls must go through an operator to complete their call.

For 5E14 and later, when MFRI is "Y", OE TYPE must be "A", "C", "G", "L", or "S".

2.12 CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.13 CIDIAL

Description: Enter the Carrier Interconnect Dialing Permissions.

Valid CIDIAL Entries	
Entry	Definition
ALLOW	The customer is allowed to dial an FGD CAC (Carrier Access Code) or use a PIC (Pre-subscribed InterLATA Carrier) Identification Number, if one is assigned, when making a Carrier Interconnect call.
DENY	The customer is not allowed to dial an FGD CAC.
REQ	The customer is required to dial an FGD CAC when making a Carrier Interconnect call.
TALLOW	Same as ALLOW, but used for a CI test line only.
TDENY	Same as DENY, but used for a CI test line only.
TREQ	Same as REQ, but is used for CI test lines only.

Data Rules:

For 5E8 and later, an entry is valid only for OE TYPE of "L", "S", "G" or "M".

When this field is blank, the CIDIAL field is automatically assigned "ALLOW"

For 5E9(1) and later, lines that require carrier access code dialing, PIC is not allowed.

2.14 PIC

Description: The Pre-subscribed InterLATA Carrier Identification Number for this TN.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

For 5E8 and later, this entry is valid when OE TYPE is "L", "S", "G", or "M", and CIDIAl is not "REQ" or "TREQ".

For 5E8 and later, PIC must equal CARRIER ID on an ICF form (5305 Record), with the ICF form's FEAT GRP equal to "D".

2.15 PTC

Description: The Pre-subscribed Intra-LATA Toll Carrier Identification Number for this TN. The PTC field is used by the Intra-LATA PIC capability. For more information on the Intra-LATA PIC capability, see Division 2 Section 4A149.

Software Release: 5E9(1) and later

Valid Entries: 0 - 9999

Data Rules:

When RTI is entered, PTC must not be entered.

The PTC field on the LINE form is used by the ICLATA special feature, which is a secured feature that must be purchased by the office before this field can be entered. The SFID 149 ACT field must be set to "Y", before PTC can be entered.

2.16 PLC

Description: Enter the PLC (Presubscribed Local Carrier) code. The PLC field supports the Alternate Local Service Provider Routing feature. For more information on the Alternate Local Service Provider Routing feature, see Division 2, Section 4A269.

Software Release: 5E12 and later.

Valid Entries: Blank, or 0 - 9999.

Data Rules:

PLC must not be entered if RTIDX is entered on the RTIDX form (5303 Record).

The PLC field on the LINE form must be defined as the CARRIER ID on the ICF form with FEAT GRP equal to "D".

2.17 UNBUNDLED

Description: Has this line been unbundled from the LEC?

Software Release: 5E12 and later

Default: N

Valid Entries: Y, N

Data Rules:

If UNBUNDLED is "Y", then PLC must be entered.

UNBUNDLED must "N" if RTIDX is entered on the RTIDX form (5303 Record).

ORIG/TERM FEATURES

The following fields (Section 2.18 - Section 2.34) determine the use of originating and/or terminating features on a TN.

2.18 TTC

Description: Will Touch-Tone calling be activated? "N" is entered for dial pulse calling.

Required Field.

Default: N

Valid Entries: Y, N

2.19 BRCS

Description: Will Business and Residence Custom Services be activated?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

An entry is required if the TN is assigned one or more BRCS features on the LINEFA form.

The assigned features are given unique Feature Names on the LINEFA form (5112 Record). The TNs assigned any BRCS features must be assigned to a LEN, SLEN, GEN, or MEN and the Class Of Service must not be any of the two party or multiparty Class Of Service values.

For 5E6 - 5E8, if this line is dedicated to ASP (Advanced Services Platform; previously PVN, Private Virtual Network) via the default ASP DAS by having DIGIT ANALYSIS SELECTOR on the LCC form (5306 Record) equal to PVN DAS on the OFCOPT form (5509 Record), then BRCS must be "N" and ASSOC OE must not be entered.. If the line is dedicated to ASP via a virtual ASP DAS by having DIGIT ANALYSIS SELECTOR on the LCC form equal to a DAS whose functionality is similar to the PVN DAS on the OFCOPT form, then BRCS should be "N". See the ASP DIALING PLAN section in the ASP feature description, Division 2, Sections 4A51 and 4A126, for further details on the dangers of assigning BRCS features to lines dedicated to ASP services.

2.20 EL

Description: Will the TN receive Essential treatment? Essential Line treatment provides origination priority when the office is in an overload state and the Overload Control Program is activated. Essential Service can be provided for TNs assigned to a LEN, SLEN, GEN, MEN, or (R)ISLU-Z card designated as Essential.

No special dedicated equipment arrangement is required for Integrated SLC (SLENs), GENs, MENs or (R)ISLU-Z lines. Lines assigned to LENs have specific dedicated equipment arrangements to prevent blocking when lines assigned essential service attempt to originate calls.

It is recommended that at most one line requiring Essential Service be assigned to LEV 0-3 for a given SM, LU, CONC, SWG, and SW.

If this recommendation is not used, blocking could occur when lines assigned Essential Service attempt to originate. Refer to section Section 1.3 .

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If OE TYPE is equal to "L", only one equipment NUMBER in a group of four NUMBERS which share a common SM/LU/GRID/SWG/SW value can have EL set to "Y".

2.21 FGA

Description: Will Feature Group A be activated? FGA is an access arrangement that provides line-terminated end-to-end InterLATA (Local Access and Transport Area) service.

Required Field.

Valid Entries: Y, N

Data Rules:

If this field is "Y", the following must be true:

OE TYPE is "A", "C", "E", "G", "L", or "S"

PTY is "I"

COIN is "N"

NO DIAL is not "MAN"

MAN MSG REGISTER is not entered

If FGA is "Y", originating and terminating call record information is always on the AMA tape, regardless of other charging options.

2.22 FLS

Description: Will free terminating service be activated? If "Y", all calls to the associated TN are free, i.e., no billing charge. This feature is not applicable to Coin, 2-Party or Multi-Party Lines.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", then OE NUMBER and PTY must be entered.

2.23 SUSO

Description: Will Originating Service be denied/suspended? If "Y", the TN associated with the LEN, SLEN, GEN, or MEN cannot originate any calls. This feature is not applicable to Coin or Multi-Party Lines.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CLASS OF SERVICE on the associated LCC form is "B911", SUSO must be "Y".

This field must be "N" if 2 PARTY ANI is "N" on the associated IMINFO form and the CLASS OF SERVICE is either "2PTY" or "TWOPTY" on the associated LCC form. This form corresponds with the IMINFO form if the first 3 digits of the OE field match the SWITCHING MODULE field on the IMINFO form. This form corresponds with the LCC form if LCC/RAX fields match.

2.24 DNY ROH

Description: Will Deny Receiver Off Hook tone be activated? This feature is not applicable to 2-Party or Multi-Party Lines.

With fixed route types, the fixed route must first point to an announcement. Deny ROH treatment will then be given after the announcement.

Required Field.

Default: N

Valid Entries: Y, N

2.25 PALIT

Description: Will Prohibit Automatic Line Insulation Testing be activated? An entry of "N" indicates that testing allowed.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

PALIT is "N" if the TN defined on the LINE form has a CLASS OF SERVICE of "INDIV", "TWOPTY", "2PTY", "4PSS", "5PTY", "10PTY", "COIN", "CHGCALL", "PBX", "HOTMOTL", "HOTPBX", or "ATND" defined on the LCC form. PALIT must be "Y" for all other CLASS OF SERVICE entries. If this field is "Y", then OE NUMBER and PTY must be entered.

If the OE TYPE/NUMBER assigned on the LINE form is assigned to a remote terminal on an RTERM form where RT INTERFACE is set to "Y" and FTTH ENABLED is set to "Y", PALIT and PSLIM must be "Y".

- **WARNING:** If the line is associated with a universal SLC, even though the CLASS OF SERVICE is in the valid range, PALIT must be "Y". Disregarding this warning may result in damage to the SLC Central Office Terminal and inaccurate test results.

2.26 PSLIM

Description: Should Subscriber Line and Instrument Measurement testing be prohibited?

Software Release: 5E10 and later

Valid Entries: Default: N

Valid Entries: Y, N

This field supports the SLIM2 feature. For more information, See Division 2, Section 4A230.

Data Rules:

If PSLIM is "N", NUMBER and PTY must be entered.

If PSLIM is "N", CLASS OF SERVICE on the LCC form must be "INDIV", "TWOPTY", "2PTY", "4PSS", "5PTY", "10PTY", "COIN", "CHGCALL", "PBX", "HOTMOTL", "HOTPBX", or "ATND".

If RT INTERFACE is set to "TR008" and FTTH ENABLED is set to "Y" on the RTERM form, PSLIM must be "Y".

2.27 COMPL

Description: Will Complaint Observing be activated? Complaint Observing is used for customers who question their message-rate bills. When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this line. The only difference between this field and the other line type study indicators is the designation set in the AMA record. COMPL is set by Recent Change after the office is cutover.

Required Field.

Default: N

Valid Entries: Y, N

2.28 SLUS

Description: Will Subscriber Line Usage be activated? When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this line. The only difference between this field and the other line type study indicators is the designation set in the AMA record. SLUS is set by Recent Change after the office is cutover.

Required Field.

Default: N

Valid Entries: Y, N

2.29 DTLBILL

Description: Will Optional Detail Bill be activated? When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this line. The only difference between this field and the other line type study indicators is the designation set in the AMA record. OPT DET Bill is set by Recent Change after the office is cutover.

Required Field.

Default: N

Valid Entries: Y, N

2.30 TRAFFIC

Description: Will a Traffic Study be activated? Traffic Study is typically used for coin lines. When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this line. The only difference between this field and the other line type study indicators is the designation set in the AMA record. Traffic Study is set by Recent Change after an office is cutover.

Required Field.

Default: N

Valid Entries: Y, N

2.31 SUST

Description: Will Terminating Service be denied/suspended? This feature is not applicable to Multi-Party Lines.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CLASS OF SERVICE on the associated LCC form is "B911", SUST must be "N".

2.32 ICP

Description: Will terminating calls be routed to Regular Intercept?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ICP is activated, entries are required in the TN, RAX, and LCC fields. ICP may be "Y" in two cases: either with an equipment assignment or without. If it is desired to route terminating calls to Regular Intercept and still maintain the equipment assignment, then the line is translated as usual with the appropriate OE TYPE/NUMBER association, for 5E3 and later.

If equipment is not assigned to this TN, then OE TYPE (for 5E3 and later) should be "ICP".

For 5E8 and later, if OE TYPE is blank and ICP equals "N", either RTI or TEST CODE must be entered.

2.33 DNY BV

Description: Will Deny Busy Verify be activated? This feature is not applicable to Coin, 2-Party or Multi-Party Lines.

Required Field.

Default: N

Valid Entries: Y, N

2.34 TRC

Description: Will Call Tracing be activated? When Call Trace is in effect, it is used to trace all incoming calls

to the customer's TN and types a record on the Maintenance TTY. TRC is set by Recent Change after the office is cutover.

Required Field.

Default: N

Valid Entries: Y, N

EQUIP

The following fields (Section 2.35 - Section 2.40) determine the use of specialized equipment assignments for a TN.

2.35 COIN

Description: Requirements for Coin lines.

Required Field.

Default: N

Valid Entries:

Valid COIN Entries	
Entry	Definition
CF	Coin First
DTF	Dial Tone First
SPP	Semi-Postpay Coin DTF
N	No Requirement

Data Rules:

Coin lines must have "SPP", "DTF", or "CF" in this field.

If CLASS OF SERVICE on the associated LCC form is "B911", COIN must be "N".

COIN cannot be "SPP" on LINE forms where the CONTROLLING OE-types/numbers, defined on the NAILUP input form have CONTROLLING OE-type equal to "A", "G" or "S".

For 5E10 and later, COIN cannot be "SPP" on LINE forms where the CONTROLLING OE-types/numbers, defined on the NAILUP input form have NON-CONTROLLING OE-type equal to "G", or "S".

COIN cannot be "SPP" on LINE forms where the NON-CONTROLLING OE-types/numbers, defined on the NAILUP input form have NON-CONTROLLING OE-type equal to "A", "G" or "S".

For 5E10 and later, COIN cannot be "SPP" on LINE forms where the NON-CONTROLLING OE-types/numbers, defined on the NAILUP input form have NON-CONTROLLING OE-type equal to "G", or "S".

For 5E11 and later, if a COIN line is associated with an OE TYPE of "E", the NUMBER (SM, AIU, PACK) combination must be equipped with a TYPE of "AICLP" on the EQAIUP form.

2.36 GST

Description: Is this line a Ground-Start line (e.g., coin-first coin lines and PBX-CO trunks)? Ground-Start lines are explained in the GENERAL section of this form.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

GST assigned to a SLEN, MEN, or GEN, is dependent on the Channel Unit Type. If CUTYPE is "FXS", then the associated SLEN, GEN, or MEN must have GST of "Y". If CUTYPE is "FXSLS", then the associated SLEN, GEN, or MEN must have GST of "N". For Channel Unit Type assignments, see the SLCCU form (5107 Record).

GST assigned to Coin must comply to the following restrictions: if Coin is "SPP", then GST must be "N"; if Coin is "DTF", then GST must be "N"; if Coin is "CF", then GST must be "Y".

GST should not be assigned to a SLC Carrier that contains a SPOT card. The SPOT card can switch loop or Ground Start automatically; therefore, GST should be "N".

2.37 TSTLINE

Description: Has a LEN, SLEN, GEN, MEN, DEN, TEN or LCEN been put into service while the 5ESS office is in the pre-cutover mode. This would be an exception to a group of lines in an SM that has been set to a Pre-Cutover status of INACTIVE. This is normally done for test lines - not live customers. It is recommended that all lines submitted at time of SLATTS be set to "Y". When this field has a value of "N", refer to IMINFORM (5510 Record) and COTH form in for Pre- and Post-Cutover (5513 Record) status of all TNs in the office.
Default: N

Valid entries Y, N

Data Rules:

If a 2-TN LTSB group is defined (refer to Division 2, Section 1AC), then the value of this field must be the same on both LINE forms that are completed.

2.38 GNDREF

Description: An earth Ground Reference. GNDREF is set up by connecting the Tip Scan resistor to ground during all stages of a call. This is necessary on certain types of equipment to prevent clicking and cut off. A comprehensive list of affected equipment can be found in the compatibility tables in document 235-700-100 (*5ESS Switch Interface/Compatibility Guide*), however some common circuits requiring a "Y" option are listed here for convenience.

- Pair Gain lines that are connected to Universal (non-integrated) SLC with FXO Channel Units for 2-Wire Foreign Exchange Office service (2FXO-SD-3C326 Loop or Ground Start).
- T-Carrier with FXO Channel Units (SD-3C326 Loop or Ground Start).

CAUTION: When this option is set to "Y" and there is a cable extending outside the serving office that is connected to the Line Equipment Number appearance of the line, transmission may be unacceptable due to unbalance and ground hum. To resolve this, the GNDREF option should be "N" and a Ground Reference Circuit (SD-5D044) connected which will provide a reference to ground during off hook call states. (The 5ESS Switch provides a ground reference during on hook call states for Ground-Start Lines. If a Loop Start Line requires a ground reference during on hook call states, see the Line Class Code description for PBX service class.)"

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If GNDREF is "Y", OE TYPE must be "C" or "L".

■ **NOTE:** When the line is assigned to a AIU/RAIU, OE TYPE must be "E".

2.39 RANGEX

Description: Is this line Range Extended from a Central Office? This includes all Line Equipment Numbers that are connected to E Type repeaters, non-integrated Subscriber Loop Carriers, and Metallic Facilities Terminals with gain.

For hardware requirements, please refer to the Interface/Compatibility Guide (235-700-100).

Required Field.

Default:

For 5E9(1) and earlier: N

For 5E9(2) and later: NONE

Valid Entries:

For 5E9(1) and earlier: Y, N

For 5E9(2) and later: See table below.

Valid Entries:

Valid RANGEX Entries 5E9(2) and Later	
Entry	Definition
EXT	Externally provided range extension. (Equivalent to "Y" in prior Software Releases.) Sets the balnet to 900+2; applies a Tip-Ground reference during all on-hook states. The Tip-Ground state allows the AUA39 (used in Universal SLC central office terminal systems) to work without requiring the setting of the GNDREF = "Y" option.
NONE	No range extension. (Equivalent to "N" in prior Software Releases.) Sets balnet based on whether the line is in a loaded or unloaded state.

Data Rules:

For 5E9(1) and earlier, if "Y" is entered, OE TYPE must be "C" or "L".

For 5E9(2) and later, if "EXT" is entered, OE TYPE must be "C" or "L".

■ **NOTE:** When the line is assigned to a AIU/RAIU, OE TYPE must be "E".

2.40 LNEQ

Description: The Line Equipment Class. All TNs assigned to Line Equipment Numbers that are associated with customers on local Tip and Ring cable must have an entry of "N" (Normal).

All TNs associated with Line Equipment Numbers on the Line Unit that connect to certain pair gain systems must have an entry of "I" (Incompatible). An entry of "I" inhibits the Fabric exerciser program from testing the associated Line Equipment Number.

Pair gain equipment is normally connected to a carrier system that requires Ground Start or FXO (Foreign Exchange Office) circuit packs with Ground-Start Option.

Required Field.

Default: N

Valid Entries:

Valid LNEQ Entries	
Entry	Definition
1	Software Release: 5E12 SU and later; 5E14 BMI. Class 1: Assigned to a AIU/RAIU (Access Interface Unite/Remote AIU). Supports the DCX/AIU Per-Line Impedance feature.
I	Incompatible Equipment. (NOTE: This entry appears in Recent Change as "LNSKIP".)
N	Normal Equipment. (NOTE: This entry appears in Recent Change as "STDEQ".)

Data Rules:

When this field is not "N", OE TYPE must be "C" or "L".

When "1" is entered,
OE TYPE must be "E".

the SM, AIU, PACK combination on the EQAIUP form must be equipped with a TYPE of "LP2ADSL", "AIZLP", or "AIGLP", and both COIN and GST on the Line form must be "N".

2.41 RMK

Description: Remarks entered for administrative purposes.

Valid Entries: 1 - 16 alphanumeric characters

2.42 SUPPL

Description: An indication that supplementary information for the TN is contained on one or both Supplementary Telephone Number Records, 5109-2 Record and/or 5109-3 Record.

Valid SUPPL Entries	
Entry	Definition
2	One or more of the items on the 5109-2 Record is equal to a non-default value.
3	One or more of the items on the 5109-3 Record is equal to a non-default value.
5	One or more of the items on both the 5109-2 Record and the 5109-3 Record are equal to non-default values.

3. FORM ENTRIES - 5109-2 RECORD

3.1 BASE AND CONTROL, OFFICE

Enter the Base and Control Number and Office Name.

3.2 (*) INDEX KEY

Description: The Telephone Number.

Valid Entries: 7 digits, 0 - 9

3.3 SERHLN

Description: The Series Completing to TN. For a TN that is part of a Series Completion Group, this entry represents the TN that is to be hunted to.

- **NOTE:** Call processing for Series Completion hunts linked-list DNs until an idle line is found, or 16 Series Completion attempts have been made.

Valid Entries:

For 5E11 and earlier: 7-digit number, 0 - 9

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If the LCC form (5306 Record) has a CLASS OF SERVICE value of "4PFS", "4PSS", "8PSS", "5PTY", "10PTY", "COIN", "CHGCALL" or "ISDN", SERHLN should be blank.

A line dedicated to ASP services should not be entered as part of a Series Completion Group. When SERHLN is entered and PVN ALW is set to "Y", the DIGIT ANALYSIS SELECTOR on the corresponding LCC form (5306 Record) cannot be the same as PVN DAS on the OFCOPT form (5509 Record) and should not be equal to a DAS equivalent in functionality to the PVN DAS (i.e., a virtual ASP DAS).

For 5E6 and later, the Series Completion feature has been expanded to support BRI lines for CSV calls. Also for 5E6, SERHLN cannot be entered when ASSOC OE is known or when ICP is "Y".

When SERHLN is entered, it cannot equal the TN field and PVN ALW must be "N".

For 5E6 - 5E10, when ASSOC OE is entered, SERHLN cannot be entered.

For 5E11 and later, the SFID 262 ACT field on the SFSYS form (5713-1 Record) must be "Y" before SERHLN can be entered if ASSOC OE is entered.

For 5E6 - 5E8, when TN has an LCC/RAX combination that shows Service Class of "B911" on the LCC form and also has a Series Completing Hunt to Number, the SERHLN value on this form must have an LCC/RAX combination with a Service Class of "B911".

For 5E7 and later, a maximum of 512 TN(s) can Series Complete to a single TN defined in SERHLN on various input forms.

For 5E8 only, the SERHLN cannot be a Standard BRI line, an analog line shared to a Standard BRI, or a Secondary Only TN associated with a Standard BRI. That is, the SERHLN may not be defined as a CKT TN or CKT SWITCHING MLHG TN on a DSLUSR form when DSL CLS is "STD" on the corresponding DSL form. It may not be defined as a TN on a LINE or MLHLN form if the TN or MLHG is a key on an SHTN form, and a shared list entry on that form is defined on a DSLUSR form with DSL CLS "STD" on the corresponding DSL form. It may not be defined as a Secondary Only key TN on an SHTN form where any shared list entry is defined on a DSLUSR form with DSL CLS "STD" on the corresponding DSL form.

For 5E7 and later, the TN(s) on the LINE input form where SERHLN is entered, must have a corresponding LCC input form with the following restrictions:

- TERMINATING TREATMENT must be equal to "INDIV", or "INWATS" and
- CLASS OF SERVICE must equal to "INDIV", "B911", "PBX", "HOTPBX", "HOTMOTL", or "ATND".

For 5E9(1) and later, TN(s) on the LINE form that have Series Completion allowed (SERHLN is known). One of the following conditions must be satisfied:

- When SERHLN matches a TN on the LINE form, ICP(intercept) must be "N".
- When SERHLN matches a TN on the LINE form with ICP(intercept) equal to "N", LCC/RAX must match LCC/RAX on the LCC form with a TERMINATING TREATMENT equal to "INWATS", "PARTY", "RI" or "INDIV".
- When SERHLN matches a CKT TN on the DSLUSR form, ICP(intercept) must be "N".
- When SERHLN matches a CKT MLHG TN on the DSLUSR form, ICP(intercept) must be "N".
- When SERHLN matches a TN on the MLHLN form, ICP(intercept) must be "N".
- When SERHLN matches a TN on the MLHLN form with ICP(intercept) equal to "N", LCC/RAX must match LCC/RAX on the LCC form with a TERMINATING TREATMENT equal to "INWATS" or "MLHG".
- When SERHLN matches an STN on the SHTN form with SMLHG/SMEMB unknown and STN does not match TN in row 1 of the SHARED LIST, ICP(intercept) must be "N".
- When SERHLN matches an STN on the SHTN form with SMLHG/SMEMB known and SMLHG/SMEMB does not match MLHG/MEMB in row 1 of the SHARED LIST, ICP(intercept) must be "N".
- The SERHLN assigned on the LINE form must be defined on a different LINE, MLHLN, DSLUSR, SHTN or as LISTED TN on the MLHG form.

3.4 ALT BILL TN

Description: The alternate TN to be billed. ALT BILL TN should be different from the key TN.

Valid ALT BILL TN Entries	
Entry	Definition
NXXXXXX	Where NXX is a valid Office Code defined on a NOC input form.
NPANXXXXXX	Any 10-digit number is accepted. Normal expected values are valid NPA and NXX codes.
ZXXXXXX	Where Z is 0 or 1; this identifies the Alternate Billing Number being used for OUTWATS billing purposes. An HNPA is allowed when used for AMA or ANAC purposes.

Data Rules:

For 5E12 and later, ALT BILL TN(s) on the LINE form that have an NXX value (the first 3 digits of a 7-digit TN) or an NPA/NXX combination value (the first 6 digits of a 10-digit TN) defined as OFFICE CODE or NPA/OFFICE CODE, respectively, on the NOC form of this office, are valid only if billing to NXX codes served by other offices is allowed or if the first digit of the NXX code is 0 or 1 showing OUTWATS billing.

3.5 NO DIAL

Description: The type of No Dial Service used.

Default: N

Valid Entries:

Valid NO DIAL Entries	
Entry	Definition

N	No Dial Service, does not apply.
MAN	Manual Line Service, normally a one party line with manual operation and is used for handicapped subscribers. Manual originating lines will route the same as if they had dialed an "0-" call.
HOT	Hotline or Direct Connection. Values "HOT" and "MAN" are not applicable to Coin or Multi-Party type of lines.

Data Rules:

For 5E6 - 5E8, if "HOT" is specified and PVN ALW is "N", then the field HOT LINE TN is required.

For 5E6 - 5E8, if "HOT" is specified and PVN ALW is "Y", then this line is direct-connected to ASP services, so HOT LINE TN cannot be entered and the corresponding LCC form (5306 Record) must have a CLASS OF SERVICE of "INDIV" and a DIGIT ANALYSIS SELECTOR set to PVN DAS on the OFCOPT form (5509 Record).

For 5E5 and later, when NO DIAL is "MAN", a Call Forwarding feature (defined on a CFWFD form, 5614 Record) cannot be assigned to this line. When NO DIAL is "HOT" and a call Forwarding feature has been assigned to this line, then on the CFWFD form ACT TYPE must be set to "AUTO" and FWD COND cannot be set to "DBSY", "DIDL" or "DBTH".

For 5E7 and later, when NO DIAL is "HOT" or "MAN", SUSO must be "N".

For 5E9(1) and later, if USTWC ALW is "Y", then CLSS, NO DIAL, and SHARED must be "N".

3.6 HOT LINE TN

Description: The TN terminated to for lines with Hot Line Service. This feature is not applicable to Coin or Multi-Party Lines.

Valid Entries: Up to 15 digits, containing the PFX, NPA, NXX, and 4-digit TN.

If the TN is assigned a BRCS Precedence and Preemption feature, enter 1 to 15 digits of 0 to 9, *, #, F, O, I or P.

The HOTLINE TN format can be either as listed below or a PP feature code followed by Intercom digit string.

CALL TYPE	PP FEATURE CODE	ROUTE CODE	AREA CODE	SWITCH CENTER	LINE NO.
ROUTINE	X	(1X)	(NPA)	(NXX)	XXXX
PRE-CEDECE	XP	(1X)	(NPA)	(NXX)	XXXX
PRE-CEDECE	XP				XXXX

Note: P is any digit or F, O, I, P.

Data Rules:

For 5E6 - 5E8, this field must contain an entry when the NO DIAL field is "HOT" and PVN ALW is "N". This field cannot be entered when NO DIAL is "HOT" and PVN ALW is "N" or when NO DIAL is "N" or "MAN".

3.7 TEST CODE

Description: This field associates a special type of line test with a local 7-digit Telephone Number.

Valid TEST CODE Entries	
Entry	Definition

100	100 Test Calls.
101	101 Test Calls - General Access TN.
IC1	101 Test Call for Work Station Number 1.
IC2	101 Test Call for Work Station Number 2.
IC3	101 Test Call for Work Station Number 3.
IC4	101 Test Call for Work Station Number 4.
IC5	101 Test Call for Work Station Number 5.
IC6	101 Test Call for Work Station Number 6.
IC7	101 Test Call for Work Station Number 7.
IC8	101 Test Call for Work Station Number 8.
IC9	101 Test Call for Work Station Number 9.
IC10 - IC32	Software Release 5E9(1) and later. 101 Test Call for Work Station Number 10 - 32.
102	102 Test Calls.
103	Software Release: 5E9(1) and later. Incoming 103 Test Line.
104	104 Test Calls.
105	105 Test Calls.
106	106 Test Calls for Defense Switched Network offices only.
BRITL	Software Release: 5E7 and later. BRI (Basic Rate Interface) Dial Up Test Line. For information about BRITL, see Division 2, Section 2U.
BBRITL	Software Release: 5E7 and later. Billed BRI (Basic Rate Interface) Dial Up Test Line. For information about Billed BRITL, see Division 2, Section 2U.
CATL	Software Release: 5E9(1) and later. Incoming Code Answer Test Line.
CSTL	Coin Station Test Line.
INV	ISTF (Integrated Services Test Function) Inverted Loopback test.
LTD	Local Test Desk.
NINV	ISTF Non-Inverted Loopback test.
OCTL	Open Circuit Test Line.
PB	Permanent Busy.
ROTL	Remote Office Test Line.
SYN	Synchronous Test.
THRU	Software Release: 5E9(1) and later. Incoming Test Call to be handled by hardware outside the switch.

Data Rules:

When a value is entered in the TEST CODE field, thus defining a TN as a Test Line:

- The LCC and RAX assigned to the Test Line must have a Service Class and Terminating Treatment of "TEST" on the LCC form;
- The OE TYPE and NUMBER fields must be blank.

If TEST CODE is "INV", "100", "102", "104", "105", "ROTL", or "LTD", an entry is required in the RTI (Route Index) field.

If TEST CODE is "BRITL", "BBRITL", "OCTL", "PB", "SYN", "101", or "IC1-9", the RTI (Route Index) field must be blank.

If TEST CODE is "100", "102", "104", "105", "ROTL", "LTD", or "CSTL", the RTI field must have a numeric value from 1 - 999.

A terminating test line ("10x", "PB", or "SYN") must be defined in the office as TEST CODE or as a CALL TYPE on an RDIT (5300-7/8 Record), LDIT (5300-3/5 Record), or MLDIT form (5300-3 Record).

Test Codes "IC1" through "IC8" correspond to the associated WSN (Work Station Number) on the TLWS form

(5511 Record) that is equipped with a Talk and Monitor telephone line. The Talk and Monitor phone numbers must be defined on either the LINE or MLHLN form. If Multiple WSNs are equipped, the MLHG arrangement is recommended.

For 5E3 and later, if the OE TYPE and NUMBER fields are not entered and the ICP field is "N", then this field and/or the RTI must be entered.

For 5E9(2) and later, if "INV" or "NINV" are entered and a RTI is also entered, the RTI must be defined as a ROUTE INDEX on a RTIDX form with a TRUNK GROUP NUMBER assigned. The TRUNK GROUP NUMBER must be defined as a TGN on a TKGRP form with a TRKCLS of "LTPISTFL" or "LTPISTFX".

3.8 ANI7

Description: Is Automatic Number Identification 7 available on this line? If "Y" is entered in this field, the ANI information digit 7 will be outputted to operator services or to an IC (InterLATA Carrier). Also, if "Y" is entered, the ANI information digit is outputted to a CAMA or TSPS operator before the billing DN. The operator can then do a database lookup to see how the call should be handled.

Required Field.

Default: N

Valid Entries: Y, N

3.9 TR303 NAILUP

Description: Is this line to be provisioned as a TR303 Nailup?

If this field is set to "Y", the switch will not attempt to provision Line Termination parameters in the RT (remote terminal). It is expected that the line termination information will be connected using the information provided on the NAILUP form (5207 Record). If the field is set to "N", the switch will provision the Line Termination parameters in the RT. The line can then be used for normal switched services, or as a nailup by populating the NAILUP form.

Software Release: 5E8 and later

Valid Entries: Y, N

Default Value: N

Data Rules:

TR303 NAILUP can only be "Y" when OE TYPE is "G" and the OE is in RT format (not PUB43801 format).

For 5E13 and later, TR303 NAILUP can only be "Y" when OE TYPE is "A" or "G" and the OE is in RT format (not PUB43801 format).

If TR303 NAILUP is "Y", COIN must be "N", GST must be "N" and either PTY must be "I" or MFRI must be "Y".

If NAILUP is "Y", the LCC/RAX combination assigned on the LINE form must not have a CLASS OF SERVICE of "COIN" on the corresponding LCC form.

When CONTROLLING OE-types/numbers, defined on the NAILUP input form with CONTROLLING OE-type equal to "A" or "G", and DDS is equal to "Y" and are associated with an RTERM form where RT INTERFACE is "TR303", the corresponding LINE form must have the TR303 NAILUP field set to "Y".

NON-CONTROLLING OE-types/numbers, defined on the NAILUP input form with NON-CONTROLLING

OE-type equal to "A", "G", or "M", and DDS equal to "Y" are associated with an RTERM form where RT INTERFACE is "TR303", the corresponding LINE form must have the TR303 NAILUP field set to "Y".

3.10 BUSY MONITOR

Description: Can the TN entered for this line be monitored by the Busy Lamps of an ISDN Attendant MLHG?

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E5 and later, if BUSY MONITOR is "Y", an OE TYPE and ATT MLHG must be entered and the associated CLASS OF SERVICE on the LCC form must be "INDIV".

An ISDN Attendant MLHG can busy monitor a Hundreds Group (TNs that share the same first five digits) only if those TNs that can be busy monitored do not physically terminate to more than 12 processors (SM and/or AM) other than the Routing Module for the Hundreds Group. There can be 13 processors if one of them is the Routing Module for the Hundreds Group. Routing Modules are assigned on the HGRPAS form (5115 Record). Entering a LISTED TN on an MLHG form causes the AM to be counted as one of the processors.

The following TNs can be included in the Hundreds Group, if the BUSY MONITOR field on the form is set to "Y":

- A TN from a LINE form
- A TN from a MLHLN form
- A CKT TN from a DSL form
- A CKT TN from a DSMLHLN form
- A LISTED TN from a MLHG form
- A TN (key) from a SHTN form.

The following physical terminations can be included in the Processor count, if the BUSY MONITOR field on the form is set to "Y":

- The first three digits (SM) of the OE NUMBER from a LINE form
- The first three digits (SM) of the OE NUMBER from a MLHLN form
- The first three digits (SM) of the LCEN from a DSL form
- The first three digits (SM) of the LCEN from a DSMLHLN form
- A LISTED TN from a MLHG form will cause the AM to be counted
- The first TN in the SHARED LIST on a SHTN form has three possible cases:
 - If the TN matches the CKT TN on a DSL form, then the corresponding first three digits (SM) of the

LCEN on that DSL form will be counted;

- If the TN matches the CKT TN on a DSMLHLN form, then the corresponding first three digits (SM) of the LCEN on that DSMLHLN form will be counted;
- If the MLHG and TERM NBR match the CKT MLHG and CKT TERM on a DSMLHLN form, then the corresponding first three digits (SM) of the LCEN on that DSMLHLN form will be counted.

3.11 ATT MLHG

Description: The Attendant MLHG that controls the TN defined on this form.

Software Release: 5E5 and later

Valid Entries: For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The ATT MLHG must have a CLASS OF SERVICE of "ISATND" or "ATND" defined on the LCC form (5306 Record). If this field is entered, the MLHG must be defined on the associated MLHG form (5110-1 Record). If the associated MLHG form has a HUNT TYPE other than "ISAT", BUSY MONITOR must be "N".

For 5E8 and later, if ATT MLHG is entered, RBV TGN must not be entered.

3.12 RBV TGN

Description: Enter the number of the incoming trunk group used to Remote Busy Verify the TN (DN) of this form. This TGN allows an ISAT (ISDN Attendant) on another 5ESS Switch to Busy Verify this DN, if the TGN is associated with an analog TN.

Software Release: 5E8 and later

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

If RBV TGN is entered, ATT MLHG must not be entered, and BUSY MONITOR must be "N".

If RBV TGN is entered, there must be a corresponding TKGRP form (5202 Record) with that TGN defined, and that TKGRP form must have TRKCLS set to "ATNDVFY", and TRK DIR must be "INC". Also, for the TGN on the TKGRP form, there must be at least one corresponding TRUNK form (5204 Record) with QTY entered.

3.13 SA TST ROUTE

Description: Will a test line be used to test the Emergency TNs defined on the EMROFC form (5116 Record). SDA TST ROUTE defines the type of Stand Alone testing used for Emergency TN routing. A call originating from this test line to an Emergency Office TN is treated as though the SM or RSM where the called number

terminates is in the Stand Alone or Isolation mode. The call is then rerouted according to data entered on the EMROFC form. If "N" is entered, this test line is used to test the SM or RSM Emergency TNs defined on the EMRNM form (5108 Record). A call originated from this test line to an Emergency TN is treated as though the SM or RSM where the test line is physically located is in the Stand-Alone or Isolation mode and the call is rerouted according to the data entered on the EMRNM form.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

All Stand Alone Test Lines must be assigned an LCC with a Service Class of "SATSTLN" and a Terminating Treatment of "INDIV".

When SA TST ROUTE is "Y", OE TYPE must be "A", "C", "E", "G", "L", or "S".

3.14 RSM REROUTE

Description: Is the RSM Reroute Stand-Alone capability activated? This field is used for record purposes only. RSM REROUTE is defined on the MLHLN form (5111-2 Record).

Valid Entries: Y, N

BASIC 911 ESB

The following fields (Section 3.15 - Section 3.17) determine the capabilities of a 911 Emergency Service Bureau located in and served by a local 5ESS Switch.

3.15 RINGBACK

Description: Can the ESB attendant initiate the Basic 911 Emergency Service Bureau Ringback capability? This field can be set to "Y" only if the 911 Emergency Bureau is located and served by the local 5ESS Switch. The ESB attendant can initiate ringback to the calling party which is in either an on-hook or off-hook condition. Ringback is initiated by a flash (200-1100 milliseconds) on 911 calls originating from a Local Individual, Coin, 2-Party or Multi-Party Line.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field contains a value of "Y", then the associated Line Class Code - Service Class must be "B911".

3.16 STATMON

Description: Should the Basic 911 Emergency Service Bureau Status Monitoring capability be activated? This field can be "Y" only if the 911 Emergency Bureau is located and served by the local 5ESS Switch. The 5ESS Switch sends calling line status indication to the ESB attendant via DC signaling and/or the presence or absence of low tone. Status is sent if the caller goes on-hook and is capable of being force held or if caller being forced held returns off-hook. Figure 3 gives conditions for various "Y" and "N" instances of STATMON and TONDET.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", the associated LCC must be "B911".

3.17 TONDET

Description: Is the 911 Service Bureau capable of detecting low tone? An entry of "Y" means that the 911 Service Bureau has a low tone decoder operating and should be sent low tone by the 5ESS Switch. TONDET should be "N" if the 911 Service Bureau cannot detect low tone.

NOTE: If either STATMON or TONDET is "N", the 5ESS Switch returns normal battery polarity if the originator is "onhook" and reverse battery if the originator is "offhook". Figure 3 gives conditions for various "Y" or "N" instances of STATMON and TONDET.

Default: N

Valid Entries: Y, N

4. FORM ENTRIES - 5109-3 RECORD

4.1 BASE AND CONTROL, OFFICE

Enter the Base and Control Number and Office Name.

4.2 INDEX KEY

Description: The TN.

Valid Entries: 7 digits, 0 - 9.

4.3 MESG REGISTER

Description: For TNs requiring a Message Register, enter the Miscellaneous Equipment assignment.

Valid Entries: The Miscellaneous Equipment entry is an 8-digit number consisting of the SM, MSU, SVG, BRD and DPN. See the table below for the correct format

For offices with CM1 (Communication Module 1) valid entries for SM are 1 - 48.

For offices with CM2 (Communication Module 2), valid entries are 1 - 192.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

Data Rules:

The same Message Register can be assigned to more than one line when the RAX/LCC combination entered has a Class of Service on the LCC form (5306 Record) of "HOTPBX" or "HOTMOTL".

Message Register lines cannot be Feature Group A.

4.4 SLEEVE LEAD CKT

Description: For TNs that require a Sleeve Lead, enter the Miscellaneous Equipment Number. This feature is not applicable to Coin, 2-Party or Multi-Party Lines.

Valid Entries: The Miscellaneous Equipment entry is an 8-digit number consisting of the SM, MSU, SVG, BRD and DPN. See the table below for the correct format.

For offices with CM1, valid entries for SM are 1 - 48.

For offices with CM2, valid entries are 1 - 192

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

4.5 MAKE BUSY KEY

Description: For TNs that require a Remote Make Busy Key assignment, enter the Miscellaneous Equipment Number. This field is not applicable to Coin, 2-Party or Multi-Party Lines.

Valid Entries: The Miscellaneous Equipment entry is an 8-digit number consisting of the SM, MSU, SVG, BRD and SPN. See the table below for the correct format.

For offices with CM1, valid entries for SM are 1 - 48.

For offices with CM2, valid entries are 1 - 192.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Scan Point Number	SPN	XX	00-30

4.6 STOP HUNT KEY

Description: The Stop Hunt Key Miscellaneous Equipment Number that has been defined on the MLHLN form. This field is for 5109-3 Record purposes only.

4.7 CARRIER GRP ALM

Description: The Carrier Group Alarm Scan Point assigned to the carrier system of this line. Do not use a Carrier Group Alarm Scan Point for lines with a SLEN (Integrated SLC Line Equipment Number). Refer to Division 8, Section 1 for procedures to obtain these assignments.

Valid Entries: The Scan Point Number is contained in a 9-digit Miscellaneous Equipment number that also consists of the SM, MSU, SVG, and BRD. See the table below for the correct format.

For offices with CM1, valid entries for SM are 1 - 48.

For offices with CM2, valid entries are 1 - 192.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU) 00-31
			(Modular MSU) 00-30
Scan Point Number	SPN	XX	00-30

Data Rules:

All lines that are assigned to the same carrier system must share the same Scan Point Number which is defined on the CGASP form (5514 Record). For 5E9(1) and later, the ACTION on the CGASP form must be set to "CON".

4.8 SHARED

Description: Is this line a primary shared TN or does it share a given TN with one or more ISDN Lines or Terminals?

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", this TN must appear on the SHTN form (5902 Record) in the key TN field. If "N", this TN cannot appear on the SHTN form.

If "Y" is entered, the associated CLASS OF SERVICE for this line must be "INDIV" on the LCC form and the Switching Module (first three digits in the NUMBER field) that this line terminates to must be defined on the EQIM form with "LOADED" entered in the CONFIGURATION field.

4.9 PRIVACY

Description: Is all-call privacy in effect? All-call privacy allows the calling party to prevent TN information to be displayed to the called party for all calls. All-call privacy can be deactivated on a per-call basis by entering a "Y" in the TN PRIVACY field on the DISPFD form (5965 Record) and assigning a dialed code.

For 5E6 and later, this field is optional. If this field is set to "Y", the presentation status of the calling number will be private. When this field is set to "N", the presentation status of the calling number is public. If the CPNP (Calling Party Number Presentation) feature has not been purchased (FID 50 on the SFSYS form (5713-1 Record) is not set to "S"), a blank PRIVACY field will default to "N". When the CPNP feature has been purchased (FID 50 on the SFSYS form (5713-1 Record) is set to "S"), a blank PRIVACY field will remain blank allowing the presentation status to be determined by either the PRIVACY field on the SCRIDXPA form (5543 Record) or the DN PRIVACY field on the OFCOPT form (5509 Record).

For 5E6 and later, the precedence for determination of call privacy is dependent on the purchase of the CPNP special feature. When the CPNP special feature has not been purchased, the precedence hierarchy is:

1. If DN PRIVACY on the OFCOPT form is "Y", the calling party number presentation status is private.
2. If DN PRIVACY on the OFCOPT form is "N", the calling party number presentation status is determined by the PRIVACY field on this form.

When the CPNP special feature has been purchased, the precedence hierarchy is:

1. If PRIVACY on this form has been entered, it is used to determine the calling party number presentation status.
2. If PRIVACY on this form has not been entered, but an SCRIDXPA form has been entered for the SCREENING INDEX assigned to the LCC form whose LCC and RAX are assigned to this form, then that SCRIDXPA form may be used. If PRIVACY on the SCRIDXPA form has been entered, then that value is used to determine the calling party number presentation status.
3. If PRIVACY on the SCRIDXPA form has not been entered, or no corresponding SCRIDXPA form was found, then DN PRIVACY on the OFCOPT form will be used to determine the calling party number presentation status.

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

4.10 OVRD DNY XFER

Description: This field was added to allow lines to override the "Deny Transfer of Digit Screened Calls" feature. For more information on this feature, see Division 2, Section 4a291.

Software Release: 5E12 and later

Valid Entries: Required.

Default Value: N

Valid Entries: Y, N

Data Rules:

When OVRD DNY XFER is set to "Y", this indicates that this line is allowed to override denials during a call

transfer.

When the OVRD DNY XFER field is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y".

LASS FEATURES

Fields Section 4.11 - Section 4.20 determine which LASS (Local Area Signaling Service) features are available for the TN. LASS features are available with 5E5 and later Software Releases.

Refer to Division 2, Section 1Y for more information on LASS.

4.11 AC ALW

Description: Is the LASS Automatic Callback feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "4WINDIV", "ATND", "ISATND", or "PBX", then ODA will assign a "Y" in this field. Otherwise, a value of "N" will be assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the TN is assigned a LASS Automatic Callback feature on the LINEFA, BFG, or associated CLUSTR form, AC ALW may not be "N".

4.12 AR ALW

Description: Is the LASS Automatic Recall feature allowed on this line.

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

A value of "Y" indicates that this line is allowed access to this feature.

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "4WINDIV", "ATND", "ISATND", or "PBX", then ODA will assign a "Y" in this field. Otherwise, a value of "N" will be assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the TN is assigned a LASS Automatic Recall feature on the LINEFA, BFG, or associated CLUSTR form, AR ALW may not be "N".

4.13 COT ALW

Description: Is the LASS Customer Originated Trace feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

A value of "Y" indicates that this line is allowed access to this feature.

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "4WINDIV", "ATND", "ISATND", or "PBX", then ODA will assign a "Y" in this field. Otherwise, a value of "N" will be assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the TN is assigned a LASS Automatic Customer Originated Trace feature on the LINEFA, BFG, or associated CLUSTR form, COT ALW may not be "N".

4.14 PCP ALW

Description: Is LASS ICLID (Individual Calling Line Identification) Per-Call Privacy feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

PCP general availability may be allowed or denied via the LASSFA form (5973 Record) and the SCRIDXPA form (5543 Record).

For the CLASS OF SERVICE on the LCC form of

"2PTY" (5E6 and later),
 "4WINDIV",
 "ATND",
 "B911",
 "CHGCALL",
 "COIN" (5E6 and later),
 "HOTMOTL" (5E6 and later),
 "HOTPBX" (5E6 and later),
 "INDIV",
 "ISATND",
 "ISDN",
 "LTPCLBCK" ("CALLBK" in 5E8 and earlier),
 "PBX",
 "SATSTLN", and
 "TWOPTY" (5E6 and later),

the following conditions apply:

- If PCP ALW is left blank, then ODA will assign a "Y" to PCP ALW. Otherwise, a value of "N" is assigned.
- If PCP ALW equals "Y", then the TN on this form must have an LCC/RAX value that corresponds to one

of the above CLASSes OF SERVICE.

In addition, for 5E6 - 5E8, the CLASSes OF SERVICE

"2PTY",
"CHGCALL",
"COIN",
"HOTMOTL",
"HOTPBX", and
"TWOPTY",

are valid only when the office has purchased the Calling Party Number Presentation secured feature, and the SFSYS form (5713-1 Record) has secured feature ID 50 set to "Y".

For 5E9(1) and later, TNs (Telephone Numbers) on a LINE form or CKT TNs (Circuit Telephone Numbers) on a DSLUSR form that have a PCP ALW value of "Y", must also be defined on the LINE form or DSLUSR form with a LCC/RAX value that corresponds to one of the following CLASS OF SERVICE on the LCC form:

"ATND",
"B911",
"LTPCLBCK",
"CHGCALL",
"COIN",
"4WINDIV",
"HOTMOTL",
"HOTPBX",
"INDIV",
"ISATND",
"ISDN",
"PBX",
"SATSTLN",
"TWOPTY",
"2PTY",

Additionally, the following CLASS OF SERVICEs are valid only when the SFSYS form has SFID 50 ACT set to "Y":

- "CHGCALL",
- "COIN",
- "HOTMOTL",
- "HOTPBX",
- "TWOPTY",
- "2PTY"

4.15 SCA GA ALW

Description: Is the Generally Available LASS Selective Call Acceptance feature available to this user?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV",

"4WINDIV" or "PBX", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is assigned.

The only service classes, indicated in the CLASS OF SERVICE field on an associated LCC form, permitted access to the feature are "ISDN", "INDIV", "4WINDIV" or "PBX".

4.16 SCF GA ALW

Description: Is the Generally Available LASS Selective Call Forwarding feature available to this user?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If this field is blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "4WINDIV" or "PBX", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is assigned.

The only service classes, indicated in the CLASS OF SERVICE field on an associated LCC form, permitted access to the feature are "ISDN", "INDIV", "4WINDIV" or "PBX".

4.17 SCR GA ALW

Description: Is the Generally Available LASS Selective Call Rejection feature available to this user?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "4WINDIV" or "PBX", then ODA will assign a "Y" in this field. Otherwise, a value of "N" will be assigned.

The only service classes, indicated in the CLASS OF SERVICE field on an associated LCC form, permitted access to the feature are "ISDN", "INDIV", "4WINDIV" or "PBX".

4.18 SDA GA ALW

Description: Is the Generally Available LASS Selective Distinctive Alert feature available to this user?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", or "PBX", then ODA will assign a "Y" in this field. Otherwise, a value of "N" will be assigned.

The only service classes, indicated in the CLASS OF SERVICE field on an associated LCC form, permitted access to the feature are "ISDN", "INDIV", or "PBX".

4.19 ALT LANG

Description: Should the alternate language DSU2-RAF LASS announcements be used? This field supports the Alternate Language LASS Announcement feature, for more information on this feature see Division 2,

Section 4A119.

Software Release: 5E8 and later

Default: N

Valid Entries: Y, N

Data Rules:

When ALT LANG is set to "Y", two FIXRT forms must be defined: one with "ALSLE" entered in FIXED ROUTE TYPE and one with "AL2LVL" entered in FIXED ROUTE TYPE.

LINE forms with an ALT LANG field set to "Y" indicate that the Alternate Language LASS Announcement Special Feature is to be used. It is a secured feature and must be purchased by the office before this field can be set to "Y". An SFSYS form must exist with SFID 119 ACT set to "Y".

4.20 UCR

Description: Is Unidentified Call Rejection assigned? When UCR is set to "Y", all calls to this line that are marked with a presentation status of private will be rejected without alerting the called party. Rejected calls will be routed to an uninterruptible announcement by means of the FIXRT form (Record 5301-1) with FIXED ROUTE TYPE of "UCRDENY".

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

SFID 47 must be set to "S" (SFID 47 must have ACT set to "Y" for 5E9(1) and later) on the SFSYS form (5713-1 Record) before UCR can be set to "Y".

UCR must be "N" when OE TYPE and NUMBER have not been entered.

When UCR is "Y", SHARED must be "N".

For 5E6 and later, UCR can be set to "Y" only when the TNs on this form have the LCC and RAX defined on an LCC form where CLASS OF SERVICE is "INDIV", "4WINDIV" or "PBX".

5. FORM ENTRIES - 5109-4 RECORD

5.1 BASE AND CONTROL, OFFICE

Enter the Base and Control Number and Office Name.

5.2 INDEX KEY

Description: The TN.

Valid Entries: 7 digits, 0 - 9.

LTSB

The following fields (Section 5.3 - Section 5.8) define LTSB (Line Time Slot Bridging) requirements. LTSB provides a software emulation of traditional metallically bridged two-party lines and off-premise extensions. A complete explanation of the feature and its associated translation requirements appears in Division 2, Section

1AC of this Guide. A member of an LTSB group cannot be a member of any other multi-party service. LTSB is available with 5E5 and later.

For 5E8 and later, LTSB is allowed with IDCU lines. When LTSB is used for IDCU lines, the OE must be in RT format, that is, LTSB is not allowed when the OE is in PUB43801 format (DS1 segment of the OE).

For 5E7 and later, IALT (Intra-Switch Analog Line Transfer) provides the ability to duplicate the line data associated with a TN, including per-line BRCS features, on an associate (new) OE number. The duplicate data assignment helps to minimize any outage associated with a move of analog OE numbers on a 5ESS Switch. This is a no change field. Provisioning of this feature is done via Recent Change. For more information, see Division 2, Section 4A80.

5.3 ASSOC OE TYPE

For 5E12 and later, this field has been renamed ASSOC OE. For information, see the ASSOC OE field description.

5.4 NUMBER

For 5E12 and later, this field has been renamed ASSOC OE. For information, see the ASSOC OE field description.

5.5 ASSOC OE

Description: This field has an entry for TYPE and an entry for NUMBER. The Associate Office Equipment indicates the port of the companion member in a 1-TN LTSB group or a 2-TN LTSB group. The port of the other member is entered in the TYPE and NUMBER fields on this LINE form.

Software Release: 5E12 and later

Valid Entries: **TYPE:**

The valid entries for this field are dependent upon the value entered in the ASSOC OE field.

If "A" is entered in the ASSOC OE TYPE field, then the entry in this field will be comprised of:

Valid TYPE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TR303/DNUS equipment number (INEN). See Division 2, Section 9J. Software Release: 5E13 and later. TSI Nail-Up of Consecutive DS0s for DNU-S. See Division 2, Section 4A349.
C	For a port that resides on Z-card within an ISLU (Integrated Services Line Unit) or within a RISLU (Remote Integrated Services Line Unit)
E	Software Release: 5E11 and later. The TN is associated with an AIU (Access Interface Unit).
G	Software Release: 5E8 and later. For a port that resides on IDCU Equipment with a 10-digit equipment number (GEN) for a remote terminal or a PUB43801.
L	For a port that resides on a Line Unit.
S	For a port that resides on an Integrated or Universal SLC (Subscriber Line Carrier).

NUMBER:

LINE EQUIPMENT NUMBER, TYPE "A"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Network Unit-Synchronous Optical Unit	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Remote Line	LINE	XXXX	0001-2048

If "A" is entered in the ASSOC OE TYPE field on the LINE or MLHLN, form(s) then the SM, DNUS, and RT values assigned to OE NUMBER[1,6] must correspond to the SM, UNIT NUMBER[2,2], and RT EX values assigned on any RTERM form.

If "C" is entered in the ASSOC OE TYPE field, then the entry in this field will be comprised of:

LINE EQUIPMENT NUMBER, TYPE "C"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Line Unit	LU	X	0-7
Line Group Controller	LGC	XX	00-15
Line Card	LC	X	00-31

If "C" is entered in the ASSOC OE TYPE field and a 1-TN LTSB group is being defined, then the SM, LU, LGC and LC values must match, respectively, the SM, (R)ISLU, LGC and POS values on an ISLULC form (5942 Record). Additionally, the POS value in the LINE CARDS list must have the corresponding TYPE set to "ZLC" or "SZLC" and the EQST field set to "O".

If "E" is entered in the ASSOC OE TYPE field, this AIU Equipment Number consists of:

OE NUMBER, TYPE E			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	AIU	XXX	000 - 104
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 31
			Coin
			00 - 15

When ASSOC OE TYPE is "E", and 1-TN LTSB is assigned (no second LINE form with an OE TYPE and NUMBER to match this ASSOC OE TYPE and NUMBER exists), then TYPE on the EQAIUP form (5746 Record) must be "LP2ADSL", "AIZLP", or "AIGLP",

If "G" is entered in the ASSOC OE TYPE field, this IDCU Equipment Number residing on a Remote Terminal consists of:

OE NUMBER, TYPE G - Remote Terminal			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
		XX	(5E10 and earlier)
			00 - 42
Remote Terminal	RT	XX	(5E11 and later)
			01 - 31
Line	LINE	XXXX	0001 - 2048

When Telephone Numbers(s) are assigned on the LINE input form(s) to IDCU equipment where ASSOC OE is entered assigning 1-TN LTSB to this TN and "G" is entered in the ASSOC OE TYPE field, the ASSOC OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a value defined on the RTERM form. Note that the last two digits of the LINE NO. are determined by the CU XX/YY value (where XX is odd number range of 01-95 and YY is an even number of XX + 1). Both LINE NO. (POS) values in the pair are assignable for CU XX/YY type equal to "FSR", "MP", "SP", "SPOTS", "SF1" (5E9(1)), "DFXS" (5E9(2) and later), "SSV00" or "SSV10". Only the lower (odd) numbered LINE NO. value is assignable for CU XX/YY type equal to "COIN", "FXS" or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE equal to "TR008".

OE NUMBER TO RTERM CORRESPONDENCE	
OE	RTERM
NUMBER[1, 3]	SM
NUMBER[4, 4]	UNIT NUMBER
NUMBER[5, 6]	RT EX
NUMBER[7, 8]	For OE TYPE equal to "M"
NUMBER[7, 10]	For OE TYPE equal to "G": POS value for CU XX/YY type equal to FSR, MP, SP, SPOTS, COIN, FXS, FXSLS, SSV00, SSV10

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

If "L" is entered in the ASSOC OE TYPE field, then the entry in this field will be comprised of:

LINE EQUIPMENT NUMBER, TYPE "L"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Line Unit	LU	X	0 - 7
		XXX	(5E9(1) and earlier) 000 - 042
			(5E9(2) and later)
Concentrator	CON	X	0-9
Switch Group	SWG	X	0-1
Switch	SW	X	0-7
Level	LEV	X	0-3

If "L" is entered in the ASSOC OE TYPE field and a 1-TN LTSB group is being defined, then the SM and LU values must match, respectively, the SWITCHING MODULE and LINE UNIT values on an EQLUP form (5711 Record). Additionally, the CON value must match an LU GRID X value (X = 0 to 9) with an EQUIPMENT STATUS of "G" or "O".

If "M" is entered in the ASSOC OE TYPE field, this IDCU Equipment Number residing on a Remote Terminal consists of:

OE NUMBER, TYPE M - Remote Terminal			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
Remote Terminal	RT	XX	01 - 31
Line	LINE	XX	01 - 99

When Telephone Numbers(s) are assigned on the LINE input form(s) to IDCU equipment where ASSOC OE is entered assigning 1-TN LTSB to this TN and "M" is entered in the ASSOC OE TYPE field, the ASSOC OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a value defined on the RTERM form. Note that the last two digits of the LINE NO. are determined by the CU XX/YY value (where XX is odd number range of 01-95 and YY is an even number of XX + 1). Both LINE NO. (POS) values in the pair are

assignable for CU XX/YY type equal to "FSR", "MP", "SP", "SPOTS", "SF1" (5E9(1)), "DFXS" (5E9(2) and later), "SSV00" or "SSV10". Only the lower (odd) numbered LINE NO. value is assignable for CU XX/YY type equal to "COIN", "FXS" or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE equal to "TR008".

OE NUMBER TO RTERM CORRESPONDENCE	
OE	RTERM
NUMBER[1, 3]	SM
NUMBER[4, 4]	UNIT NUMBER
NUMBER[5, 6]	RT EX
NUMBER[7, 8]	For OE TYPE equal to "M"
NUMBER[7, 10]	For OE TYPE equal to "G": POS value for CU XX/YY type equal to FSR, MP, SP, SPOTS, COIN, FXS, FXSLS, SSV00, SSV10

*Note: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

If "S" is entered (representing an Integrated SLC number) in the ASSOC OE TYPE field, then the entry in this field will be comprised of:

Integrated SLC EQUIPMENT NUMBER, TYPE "S"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Carrier Line Unit	DCLU	X	0-7
Remote Terminal	RT	XX	01-32
Line	LINE	XX	01-96

The RT value may only exceed 6 if the Integrated SLC is defined on a DCLURT form (5118 Record).

If "S" is entered in the ASSOC OE TYPE field and a 1-TN LTSB group is being defined, then the SLC must be defined on the SLCRT form (5106 Record) and the SLCCU form (5107 Record). The SM, DCLU and RT values must match the SM, DCLU and REMOTE TERMINAL values on a SLCRT form, respectively, and match the INTERFACE MODULE, DCLU and REMOTE TERMINAL values on a SLCCU form, respectively. Additionally, the LINE value must match a POS value, in the CHANNEL UNITS list of the SLCCU form, where a CU TYPE is entered.

Data Rules:

If either the ASSOC OE or the NUMBER field have an entry, then both fields must have an entry.

If the LEAD PORT or MAN EXCL field is set to "Y", then the ASSOC OE TYPE and NUMBER fields must have entries.

There are numerous fields, on the LINE form, that are affected by entries being made in the ASSOC OE and NUMBER fields. If entries are made in the ASSOC OE and NUMBER fields, then the following conditions apply:

- OE TYPE/NUMBER must be entered
- OE TYPE/NUMBER must not be the same as ASSOC OE
- OE TYPE must be "A", "C", "E", "G", "L", or "S" for LTSB.
- if OE TYPE is "G", the OE NUMBER must not be in a PUB43801 format
- COIN must be "N" (LTBSB only supports service classes of "INDIV", "TWOPTY", "2PTY")

- GNDREF must be "N"
- ATT MLHG must not be entered
- RBV TGN must be entered
- CARRIER GRP ALM must be entered
- The AC ALW and AR ALW fields will be assigned a value of "N".
- The CIDIAL field must be set to "ALLOW", "DENY" or "REQ".
- The SLEEVE LEAD CKT field must not have an entry.
- The FGA, BUSY MONITOR and SHARED fields must be set to "N".
- For 5E12 and earlier, NO DIAL must be "N".

The combination of entries in the ASSOC OE and NUMBER fields must not be duplicated in the ASSOC OE and NUMBER fields on any other LINE form.

When TN(s) are assigned on the LINE form with an ASSOC OE entry that assigned 1-TN LTSB to a TN (1-TN LTSB means that there is not a second LINE form with an OE TYPE and NUMBER to match this ASSOC OE and NUMBER) and the ASSOC OE is "S" which corresponds to a SLC equipment number (SLEN), the ASSOC OE NUMBER must correspond to a Channel Unit Position with a known value defined on the SLCCU form. Note that LINE NO. values (last two digits of the NUMBER field on the LINE form) are determined by the CU TYPE value. Both LINE NO. (POS) values in the pair are assignable for CU TYPE equal to "SP", "MP", "SPOTS", "FSR", "SF1" (5E9(1)) or "DFXS" (5E9(2) and later). Only the lower (odd) numbered LINE NO. value is assignable for CU TYPE equal to "COIN", "FXS", "FXSLS", "SSV00" or "SSV10".

5E5 and later:

When LINE forms have 1-TN LTSB (Line Time Slot Bridging) assigned and a corresponding LINEFA form has BRCS FEATURES assigned, the following features are allowed if they have the correct options or parameter values required by the 1-TN case of LTSB.

BRCS Features - 5E5 and later		
Feature	Form	Field Entries
Call Forwarding Using Call Forwarding Variable	CFWFD	FORWARD CONDITION = "BOTH"
Call Waiting Terminating with Flash Allowed	CWTFD	INVOCATION = "TERM" FLASH ON FORWARD = "Y"
Multi-Way Calling not invoked by Call Pickup Terminating	MWFD	
One and Two-Digit Speed Calling that is Shared	SCFD	SC SHARED = "Y"

BRCS Features - 5E6 and later		
Feature	Form	Field Entries
LASS Automatic Callback	LSACFD	
LASS Automatic Recall	LSARFD	
LASS Selective Call Acceptance	LSCAFD	
LASS Selective Call Forwarding	LSCFFD	
LASS Selective Call Rejection	LSCRFD	
LASS Selective Distinctive Alerting	LSDAFD	

If ASSOC OE is entered:

- ATT MLHG must not be entered.
- OE TYPE must be "C", "E", "G", or "L".

5E6 and later:

If ASSOC OE TYPE is entered, then AC ALW and AR ALW must be "N".

NOTE: The last two digits of the LINE NO are determined by the CU value (xx/yy), where xx is in the odd number range of 01-95 and yy is xx + 1. Note that both LINE NO. (POS) values in the pair are assignable for CU xx/yy type equal to "FSR", "MP", "SP", "SSV00", "SSV10" "SF1" (5E9(1)), "DFXS" (5E9(2) and later) or SPOTS". Only the lower (odd) numbered LINE NO. value is assignable for CU xx/yy type equal to "COIN", "FXS", or "FXSLS".

5E8 and later:

If ASSOC OE is entered, RBV TGN must not be entered.

The ASSOC OE TYPE on the LINE form must be blank as LTSB (Line Time Slot Bridging) is not allowed on PUB43801. If OE TYPE is equal to a "G" or "M" unit which has TR008 RTs defined on the RTERM form (5174 Record), the ASSOC OE (TYPE/NUMBER) must correspond to a CU (Channel Unit) position with a known value defined on the RTERM form.

5E9(1) and later:

When a TN is defined on a LINE form with an ASSOC OE TYPE and NUMBER specified for LTSB (Line Time Slot Bridging), and a second LINE form with an OE TYPE and NUMBER which matches the ASSOC OE TYPE and NUMBER from the first LINE form, 2 TN LTSB is assigned to both lines. The AC ALW and AR ALW fields on either of these LINE forms must not have an entry of "Y". Neither LASS Auto Callback or LASS Auto Recall is supported for 2-TN LTSB lines.

5E11 and later:

When ASSOC OE is entered, CARRIER GRP ALM cannot be entered.

The ASSOC OE TYPE and NUMBER on the LINE form must not match an OE TYPE and NUMBER on the MLHLN form.

When LINE and/or MLHLN forms have an ASSOC OE TYPE and NUMBER for LTSB entered, the same ASSOC OE TYPE and NUMBER cannot be duplicated on two or more forms. Each ASSOC OE TYPE and NUMBER must be unique.

When a TN(s) is defined on a LINE form with an ASSOC OE TYPE and NUMBER entered assigning 1-TN Line Time Slot Bridging (LTSB) to this TN and the corresponding LINEFA form has one or more of the following BRCS features entered, SFID 262 ACT must be set to "Y" on the SFSYS form since 1-TN LTSB assigned with these BRCS features is a secured feature (IBDS, Package 1).

The BRCS features for this secured feature are the following:

BRCS Features		
Feature	Form	Field Entries
Call Forwarding: Busy Line and Don't	CFWD	FWD CONDITION = "BUSY" or "IDLE"

Answer		
Incoming Line Identification	LIDFD	CNAM,, CALL NBR DELIV PRIM,, or CALL NBR DELIV ALL = "Y"
Message Service System	MSFD	
Display Feature Per-Call Privacy	DISPFD	TN PRIV = "Y"

When LINE forms have an LTSB (1-TN Line Time Slot Bridging) feature assigned (an ASSOC OE TYPE and NUMBER were entered), the SFID 262 ACT field on the SFSYS form must be set to "Y" before the SERHLN field can be entered since the Series Completion with 1-TN LTSB is a secured feature.

5E12 and later:

For a TN(s) defined on a LINE form, when an ASSOC OE is entered assigning a 1-TN LTSB, and the corresponding LINEFA form has one or more of the following BRCS features assigned, the 1-TN LTSB with these features is the secured feature, IBDS (Internally Bridged Dual Services), Package 2. Therefore, SFID 263 ACT field on the SFSYS form must be set to "Y". In addition, the 1-TN LTSB with IBDS, Package 1 is a secured feature, which is required for IBDS, Package 2 features. Therefore, SFID 262 ACT field must be set to "Y" before the SFID 263 ACT field can be set to "Y".

Valid BRCS Features		
Feature	Form	Entries
Dial Call Waiting Call Waiting Originating	CWTFD	INVOCATION= "CODE", "ORIG", or "TERM", and CW DELUXE="N", and FLASH ON FORWARD="Y".
LASS Customer Originating Trace	LSCOTFD	
Distinctive Ringing	DRFD	
Individualized Dialing Plan	IDFD	
Message Detail Recording	MDRFD	
Private Facilities Access without Queueing	PFAFD	
Terminal Group Station Restriction	TGSFRFD	

1-TN LTSB with the Calling Identity Delivery on the Call Waiting feature is part of the IBDS, Package 2 feature which is a secured feature. Therefore, when a LINE form has LTSB assigned, the SFID 263 ACT field on the SFSYS form must be set to "Y" before CID CW can be set to "Y" on the LINE form.

Queueing is not allowed for 1-TG LTSB. For a TN(s) defined on a LINE form with an ASSOC OE entered, which is assigned 1-TN LTSB and a PFA (Private Facility Access) feature is assigned on the corresponding LINEFA form, then QUEUE ALLOWED or PRIORITY QUEUE must be "N" on the BFG and PFALPA forms. In addition, QUEUE ALLOWED or PRIORITY QUEUE must be "N" on the PFAFD form, unless these parameters are overridden on the corresponding BFG or PFLPA forms. For 5E13 and later, when the ACT field for SFID 280 on the SFSYS form is set to "Y", queueing is allowed, (i.e., QUEUE ALLOWED and PRIORITY QUEUE can be "Y").

5E13 and later:

The following checks for SFID 280 are related to the IBDS3 (Internally Bridged Dual Service - Package 3) feature. For more information on this feature, see Division 2, Section 4a280.

If the ASSOC OE on the LINE form is entered, NO DIAL must "N", unless the ACT field for SFID 280 on the SFSYS form is set to "Y". If SFID 280 is set to "Y", ASSOC OE can be "HOTN".

The ACT field for SFID 280 on the SFSYS form must be set to "Y" when the TNs defined on a LINE form with the ASSOC OE TYPE and NUMBER entered, assigning 1-TN or 2-TN LTSB (Line Time Slot Bridging) to the TN, and the corresponding LINEFA form has one or more of the following BRCS features entered:

Valid BRCS Features	
Feature	Form
Account Codes	ACCTFD
Automatic Route Selection	ARSFD
Advanced Services Interface	ASIFD
Authorization Codes	ATHFD
Bulk Calling Line Identification	BCLIDFD
Call Waiting Deluxe	CWTFD (CW DELUXE = "Y")
Time of Day	TODFD

When a LINE form(s) has the ASSOC OE entered that matches an OE on another LINE form, this assigns 2-TN LTSB (Line Timeslot Bridging). When 2-TN LTSB is assigned, the NO DIAL field on the same LINE form must be set to "N".

5E15 and later:

The following checks for SFID 575 are related to the LTSB Interworking with Home Intercom feature. For more information on this feature, see Division 2, Section 4A575.

When the TN is defined on a LINE form with ASSOC OE TYPE and NUMBER entered, assigning 1-TN LTSB (Line Time Slot Bridging) to the TN and this TN is also assigned Home Intercom as a BRCS feature on a corresponding LINEFA, CLUSTER, or BFG form, then the ACT field for SFID 575 on the SFSYS form must be set to "Y".

When the ACT field for SFID 575 on the SFSYS form is set to "Y", the ACT field for SFID 280 must also be set to "Y", since the LTSB Interworking with Home Intercom feature depends on the IBDS (Internally Bridged Dual Service) Package 3 feature.

5E16 and later:

When ASSOC OE is entered, OE TYPE must be "A", "C", "E", "G", "L", "S", or "Y" for LTSB.

5.6 LEAD PORT

Description: Is the port defined in the OE TYPE and NUMBER fields the lead port for this LTSB group? If a 1-TN LTSB group is being defined, this field must be "Y". If a 2-TN LTSB group is being defined, which requires two LINE forms, one and only one of the forms can have this field must be "Y".

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

5.7 IALT

Description: Is Intra-switch Analog Line Transfer active? This field is a no change field and defaults to "N". For more information, see Division 2, Section 4A80.

▲ **WARNING:** The IALT feature is not supported during a retrofit. Before a retrofit can be performed, IALT

procedures must be complete, and IALT must be "N" on Recent Change View 1.6.

Software Release: 5E7 and later

Required Field.

Default: N

5.8 MAN EXCL

Description: Can the ports defined in the OE TYPE/NUMBER combination and the ASSOC OE TYPE/NUMBER combination exercise the Manual Exclusion feature? The Manual Exclusion feature is only applicable to 1-TN LTSB groups. The value entered in this field applies to both members of the group. The Manual Exclusion feature is also not applicable to 2-TN LTSB groups. The value entered in this field, on both of the LINE forms required, must be set to "N".

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

4-WIRE SPECIFICATIONS

The following fields Section 5.9 - Section 5.13 are used in DSN (Defense Switched Network) offices. DSN is set by an entry of "Y" the DSN OPTION field on the OFCOPT form (5509 Record). An entry in these fields is only valid for lines that have a CLASS OF SERVICE (LCC form) of "4WINDIV". These fields should be entered only when OE TYPE is "D", "N" or "T".

5.9 ROUTINE RINGING

Description: The type of routine ringing desired for 4-wire access lines.

Valid ROUTING RINGING Entries	
Entry	Definition
4WOFF	Offhook alerting
4W24	2-second offhook, 4-second onhook

Data Rules:

For 5E4(2) and later, if CONFERENCE BRIDGE is "Y", then ROUTINE RINGING must be "4WOFF".

5.10 PRIORITY RINGING

Description: The type of priority ringing desired for 4-wire access lines.

Valid PRIORITY RINGING Entries	
Entry	Definition
4WOFF	Offhook alerting
4W350	Simple wink - 350ms offhook, 350ms onhook, offhook
4W1650	Continuous 1650ms offhook, 350ms onhook

Data Rules:

For 5E4(2) and later, if CONFERENCE BRIDGE is "Y", then PRIORITY RINGING must be "4W350".

5.11 AUDIBLE RINGING

Description: Does the 4-wire subscriber line equipment provide its own audible ring?

Default: N

Valid Entries: Y, N

5.12 INC. START SIGNAL

Description: The type of incoming start signal required for 4-wire subscriber lines.

Default: DIALTONE

Valid Entries:

Valid INC. START SIGNAL Entries	
Entry	Definition
DIAL TONE	Dial Tone.
GRND	Software Release: 5E10 and later. Ground Start Supervision FX Trunk. See the 4-Wire on Lines on DFI feature, Division 2, Section 7W.
LOOP	Software Release: 5E10 and later. Loop Start Supervision FX Trunk. See the 4-Wire on Lines on DFI feature, Division 2, Section 7W.
WINK	Wink Start
WNKDT	Wink Start and Dial Tone

Data Rules:

If CONFERENCE BRIDGE is "Y", then INC. START SIGNAL must be either "WINK" or "WNKDT".

5.13 CONFERENCE BRIDGE

Description: Is the 4-wire subscriber line a conference bridge connection?

Default: N

Valid Entries: Y, N

Data Rules:

If CONFERENCE BRIDGE is "Y", then PRIORITY RINGING must be "4W350".

5.14 ASP ALW

Description: Is this line allowed to originate ASP (Advanced Services Platform; previously PVN, Private Virtual Network) calls via an ODP Feature/Prefix Code trigger?.

Software Release: 5E6 through 5E8

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PVN OFC on the OFCOPT form (5509 Record) is set to "NONE", then this office does not support ASP, and PVN ALW must be "N". PVN ALW may be set to "Y" only if the corresponding LCC form (5306 Record) has a CLASS OF SERVICE of "INDIV" or "ATND".

If PVN ALW is "Y" and NO DIAL is "HOT", then this line is direct-connected to ASP services, and the corresponding LCC form (5306 Record) must have a CLASS OF SERVICE of "INDIV" and a DIGIT ANALYSIS SELECTOR set to PVN DAS on the OFCOPT form (5509 Record).

A line dedicated to ASP services should not be entered as part of a Series Completion Group. When PVN ALW is set to "Y" and SERHLN is entered, then the DIGIT ANALYSIS SELECTOR on the corresponding LCC form (5306 Record) cannot be PVN DAS on the OFCOPT form (5509). Likewise, DIGIT ANALYSIS SELECTOR should not be a DAS equivalent in functionality to the aforementioned PVN DAS (i.e., a virtual ASP DAS).

5.15 SCD SCRNING

Description: This field is set to "Y" by Recent Change if at least one carrier has requested SCD Screening for this line. SCD Screening is a function of the Selective Carrier Denial feature which is available in 5E5 and later Software Releases.

5.16 CLSS

Description: Is the Calling Line Side Supervision active on this line? If "Y" is entered, the calling party will detect a battery reversal upon called party answer, and another battery reversal (returning to normal state) upon called party disconnect. This field is used by the CLSS (Calling Line Side Supervision) feature. CLSS is a secured feature, and must be purchased before it can be assigned.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 63 ACT field on the SFSYS form must be set to "Y" before CLSS can be set to "Y".

If CLSS is set to "Y" and the LCC/RAX is defined on an LCC form where CLASS OF SERVICE is "INDIV" or "PBX", which qualifies the line for use of LASS GA (Generally Available) features, then the LINE form must have AC ALW, AR ALW, COT ALW, PCP ALW, SCA GA ALW, SCF GA ALW, SCR GA ALW and SDA GA ALW all set to "N" since lines subscribing to CLSS are not compatible with LASS GA features.

If CLSS is set to "Y", this requires that LCC/RAX be defined on an LCC form where CLASS OF SERVICE is "INDIV", "PBX" or "HOTPBX".

CLSS may only be "Y" when:

- OE TYPE/NUMBER is entered.
- ASSOC OE TYPE is not entered.
- BUSY MONITOR is "N".
- SHARED is "N".
- BRCS is "N".
- AC ALW, AR ALW, COT ALW, PCP ALW, SCA GA ALW, SCF GA ALW, SCR GA ALW, and SDA GA ALW are blank or "N".

5.17 MCLD DEACT

Description: Is MCLD (Modified Calling Line Disconnect Procedure for Fraud Protection) deactivated for this line when it is active on this SM?

The MCLD feature is enabled by setting FID 517 to "S" on the FOSYS form (5713-2 Record).

When MCLD is enabled and MCLD DEACT is set to "N", this line will receive Permanent Signal Treatment following expiration of the disconnect timer. This will force the line to go back onhook before originating another call. When MCLD is enabled and MCLD DEACT is set to "Y", this line will receive dialtone following expiration of the disconnect timer.

The MCLD feature applies only to analog lines. For more information, see Division 2, Section 4C.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If OE TYPE and NUMBER have not been entered, then MCLD DEACT must be "N".

5.18 BLK 1PLUS

Description: Enter the type of blocking treatment for this line.

Software Release: 5E6 and later

Required Field.

Default: NONE

Valid Entries:

Valid BLK 1PLUS Entries	
Entry	Definition
FULL	Full 1+blocking will be provided for this line. Full blocking will block all 1+ calls except those to an operator.
SPLIT	Split 1+blocking will be provided for this line. Split blocking will block Feature Group D CAC 1+ calls if the carrier dialed is not the pre-subscribed carrier, but will allow 1+ calls to an operator.
NONE	No blocking treatment will be provided for this line.

Data Rules:

If OE TYPE and NUMBER have not been entered, then BLK 1PLUS must be "NONE".

If BLK 1PLUS equals either "FULL" or "SPLIT", the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV", "PBX", "HOTPBX", "HOTMOTL", "COIN", "ATND", "ISDN", "ISATND", or "SATSTLN".

5.19 LONG DST DR

Description: Is distinctive ringing supplied for long distance calls? This field supports the Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls secured feature. For more information on this feature, see Division 2 Section 4A91.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a secured feature that must be purchased by the office before the LONG DST DR field can be changed from its default value on either the LINE, MLHLN, or DSLUSR forms. The SFID 91 ACT field on the SFSYS form (5713-1 Record) must be set to "Y", before the LONG DST DR field can be set to "Y".

If the LINE, MLHLN, and/or DSLUSR forms have LONG DST DR set to "Y", the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "ATND", "INDIV", "ISATND", "ISDN", or "PBX".

USTWC

The following fields Section 5.20 - Section 5.22 are used for the secured feature Usage Sensitive 3-Way Calling. For more information concerning this feature, see Division 2, Section 4A156.

5.20 USTWC ALW

Description: Is Usage Sensitive 3-way calling allowed?

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

If USTWC ALW is "Y", then CLSS, NO DIAL, and SHARED must be "N".

If USTWC ALW is set to "Y" on the LINE and/or MLHLN forms, then the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV" or "PBX".

5.21 SUBSCR USTWC

Description: Is this line subscribed to USTWC (Usage Sensitive Three-Way Calling)? This field supports Spontaneous USTWC feature, which is a secured feature (SFID 156). For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- CLSS must be "N"
- NO DIAL must be "N"
- SHARED must be "N"

If "Y" is entered for this field on the the LINE and/or the MLHLN form, the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV" or "PBX".

5.22 USTWC ALW XFER

Description: Allow Usage Sensitive Three Way Calling with Call Transfer? This field supports the Per-Use Three Way Calling with Call Transfer feature. This feature is a secured feature. For more information, refer to Division 2, Section 4A577.

Software Release: 5E15 and later

Default: N

Valid Entries: Y, N

Data Rules:

When USTWC ALW XFER is "Y", USTWC ALW or SUBSCR USTWC must be "Y"

When USTWC ALW XFER is "Y", ACT field must be "Y" for SFID 577 on the SFSYS form (5713-1 Record).

5.23 CID CW

Description: Assign Calling Identity Delivery on Call Waiting? For more information about this field, see Division 2, Section 4A133, which describes the Calling Identity Delivery on Call Waiting secured feature. This feature requires the purchase and activation of the secured feature Switch-To-CPE Analog Off-Hook FSK Data Interface with the ACT field for SFID 140 set to "Y" on the SFSYS form. For more information about this feature, see Division 2, Section 4A140.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CID CW is "Y", then BRCS must be "Y".

The ACT field for SFID 133 on the SFSYS form (5713-1 Record) must be set to "Y" before CID CW can be set to "Y".

If a TN has CID CW set to "Y" on this form, then the TN must

- be assigned a Call Waiting Terminating feature defined on the CWTFD form with INVOCATION set to "TERM"
- be assigned a Line Identification feature defined on the LIDFD form with OUTGO CLD LINE ID set to "N" and CALL NBR DELIV PRIM, CALL NBR DELIV ALL, or CNAM set to "Y"
- have appropriate features assigned on the LINEFA, CLUSTR, or BFG form.

If CID CW is "Y", the LCC and RAX must be defined on an LCC form with CLASS OF SERVICE of "ATND", "INDIV", "4WINDIV" or "PBX".

NUMBER PORTABILITY

The following fields (Section 5.24 - Section 5.25) were added to accommodate local number portability. This is a secured feature with SFID 199. For more information on Number Portability, see Division 2, Section 4A174.

5.24 LRN INDEX

Description: Enter the index into the LRNINDEX form (5328 Record) for Local Number Portability. LRNs are used to route DN's that have been ported into the office from other switches. AN LRN uniquely identifies an office and rate center. This field supports the Local Number Portability secured feature (SFID 174). For more information concerning this feature, see Division 2, Section 4A174.

Software Release: 5E11 and later

Valid Entries: 1 - 127

Data Rules:

When a TN is assigned on a LINE form and LRN INDEX is entered, then the LRN INDEX must also be entered on the LRNINDEX form (5328 Record).

5.25 PORTED

The PORTED field is used to indicate whether the TN has been ported into this office via the LNP (Local Number Portability) feature. The indicator is used by call processing to determine whether or not to generate an LNP BAF (Bellcore AMA Format) module for originating and terminating IXC access records.

This field was added for the AMA Billing feature. For more information on AMA Billing, see Division 2, Section 4A199.

5.26 NON COND TRIG

Description: The NON COND TRIG field is used to indicate whether or not a call to this DN requires a non-conditional query of the SCP (Service Control Point) prior to routing the call.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When SERHLN exists, NON COND TRIG must be "N".

When ICP is "Y", NON COND TRIG must be "N".

When NON COND TRIG is "Y":

- the ACT field for SFID 216 must be set to "Y" on the SFSYS form, and if SFID 216 is set to "Y", SFID 174 must also be set to "Y"
- the CLASS OF SERVICE and TERMINATING TREATMENT on the LCC form should be as follows:
 - Valid CLASS OF SERVICE
 - "10PTY", "2PTY", "4PFS", "4PSS", "5PTY", "8PSS", "ATND", "CHGCALL", "COIN", "HOTMOTL", "HOTPBX", "INDIV", "ISATND", "ISDN", "PBX", "SATSTLN", "TWOPTY", "4WINDIV"

- Valid TERMINATING TREATMENT
 - "INDIV", "INWATS", "MLHG", "PARTY"

ADVANCED SERVICES PLATFORM

The following fields (Section 5.27 - Section 5.28) were added to accommodate the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature. This is a secured feature with SFID 210. For more information on this feature, see Division 2, Section 4A210.

5.27 OFC OBL INH

Description: The OFC OBL INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by individual lines. It indicates whether the ASP Office Originating Busy Line Office Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating Busy Line Office Trigger is inhibited.

This field was added for the ASP Inhibiting of Originating Busy/No Answer Office Triggers. For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2, Section 4A210.

Required Field.

Data Rules:

When the inhibiting feature has not been purchased, OFC OBL INH must be "N".

5.28 OFC ONA INH

Description: Description: The OFC ONA INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by individual lines. It indicates whether the ASP Office Originating No Answer Office Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating No Answer Office Trigger is inhibited.

This field was added for the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature. For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2, Section 4A210.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the inhibiting feature has not been purchased, OFC ONA INH must be "N".

5.29 URT FCD BLK

Description: Should all Unrestricted FCD Codes be blocked from this TN?

- **NOTE:** On the LINE, MLHLN, and DSLUSR forms this URT FCD BLK field is intended for use on individual or line attendant lines only.

This field was added for the ASP Unrestricted FCD Trigger feature. For more information, see Division 2, Section 4A572.

Software Release: 5E15 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The secured feature ASP Unrestricted FCD Code Triggers must be purchased before URT FCD BLK can be changed to "Y" on the LINE form, therefore the ACT field for SFID 572 on the SFSYS form must be "Y".

For 5E15 and later, when the LINE form has "Y" entered in the URT FCD BLK field, a corresponding LCC form must have "INDIV" or "ATND" entered in the CLASS OF SERVICE field. LCC corresponds with a LINE form when the LCC and RAX fields match.

5.30 BLK LN CODE

Description: This is a text only field that indicates if a LNBLKCOD form exists for this TN.

This field was added for the ASP Unrestricted FCD Trigger feature. For more information on, see Division 2, Section 4A572.

Software Release: 5E15 and later

5.31 INHIBIT DEL

Description: Should the deletion of this line be inhibited?

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

- **NOTE:** INHIBIT DEL must be set to "N" before deletion is allowed.

Data Rules:

When INHIBIT DEL field is "Y", OE or RTIDX must be entered.

5.32 CONTEXT ID

Description: This field is used to indicate whether or not a line is set to "NATIVE", "RESOLD", or "UNBUNDLED" for the AMA Recording for Resale and Unbundling feature. For more information on this feature, see Division 2, Section 4A321.

Software Release: 5E12 and later
Required Field.
Default:
For 5E13: N

For 5E14 and later: NATIVE

Valid Entries:

Valid CONTEXT ID Entries		
Entry for 5E12, 5E13	Entry for 5E14 and later	Description
N	NATIVE	Line owned by ILEC/Switch Owner with no additional recording.
R	RESOLD	Unbundled Line with Service Provider and Timing Module
U	UNBUNDLED	Resale Line with Service Provider and NO Timing Module

Data Rules:

When the CONTEXT ID field is set to "R" or "RESOLD" or, "U" or "UNBUNDLED" on the LINE form, the ACT field for SFID (Secured Feature ID) 321 on the SFSYS form (5713-1 Record) must also be set to "Y".

When the CONTEXT ID field is set to "R" or "RESOLD" or, "UNBUNDLED" on the LINE form, there must be an LCC form (5306 Record) where the RAX and LCC has the CLASS OF SERVICE set to one of the following:

ATND
 CHGCALL
 COIN
 HOTMOTL
 HOTPBX
 INDIV
 ISDN
 ISATND
 PBX
 TWOPTY
 2PTY
 4PFS
 4PSS
 4WINDIV
 5PTY
 8PSS
 10PTY

USAGE SENSITIVE CALL FORWARDING

The following fields (Section 5.33 - Section 5.34) were added to accommodate the Usage Sensitive Call Forwarding feature. This feature is secured with SFID 544. Refer to Division 2, Section 4A544 for further details pertaining to this feature.

5.33 USCF ALW

Description: Allow Usage Sensitive Call Forwarding on the specified line?

Software Release: 5E15 and later

Default: Y

Valid Entries: Blank, Y, or N

NOTE: When this field is left blank, it is defaulted to "Y" provided the following data rules are met. Otherwise, it is populated with "N".

Data Rules:

When USCF ALW is "Y",

SHARED must be "N",

CLSS must be "N",

NO DIAL must be "N",

ASSOC OE must not be entered.

RAX and LCC must be defined on the LCC form with CLASS OF SERVICE equal to "INDIV", "4WINDIV" or "PBX".

5.34 USCF ACT

Description: Is Usage Sensitive Call Forwarding active on this line?

Software Release: 5E15 and later

No change field.

Default: N

Valid Entries: Y or N

USAGE SENSITIVE SIX-WAY CALLING

The USSCW ALW field was added to accommodate the Usage Sensitive Six-Way Calling feature. This is a secured feature with SFID 553. For more information on this feature, see Division 2, Section 4A553.

5.35 USSWC ALW

Description: Should Usage Sensitive Six-Way Calling be allowed? The USSWC ALW field verifies whether or not the Usage Sensitive Six-Way Calling feature is allowed on a specified line. No entry is required; this is an optional field. For more information on this feature, see Division 2, Section 4A553.

Software Release: 5E15 and later
 Default: Blank
 Valid Entries: Blank, or enter Y or N

Data Rules:

When USSWC ALW is "Y":

RTI must not be entered

COIN must be "N"

NO DIAL must be "N"

TEST CODE must not be entered

SA TST ROUTE must be "N"

SHARED must be "N"

CLSS must be "N"

4-PARTY SEMI-SELECTIVE SERVICE

PARTY NUMBER	RINGING METHOD	RINGING CODE (see Note)
1	Ring to Ground	1
2	Tip to Ground	1
3	Ring to Ground	2
4	Tip to Ground	2

4-PARTY FULL SELECTIVE (4FS)

PARTY NUMBER	RINGING - METHOD & POLARITY	RINGING CODE (see Note)	REVERTIVE ASSIGNMENT CODE
1	Ring to Ground (-)	1	2
2	Tip to Ground (-)	1	3
3	Ring to Ground (+)	1	4
4	Tip to Ground (+)	1	5

8-PARTY FULL SELECTIVE (8FS)

PARTY NUMBER	RINGING - METHOD & POLARITY	RINGING CODE (see Note)	REVERTIVE ASSIGNMENT CODE
1	Ring to Ground (-)	1	2
2	Tip to Ground (-)	1	3
3	Ring to Ground (+)	1	4
4	Tip to Ground (+)	1	5
5	Ring to Ground (-)	2	6
6	Tip to Ground (-)	2	7
7	Ring to Ground (+)	2	8
8	Tip to Ground (+)	2	9

NOTE:

Code 1 - 2 Sec. ringing followed by 4 Sec. silence

Code 2 - 1 Sec. ringing followed by 1 Sec. silence

1 Sec. ringing followed by 3 Sec. silence

Figure 1 ASSOCIATION OF PARTY NUMBER TO RINGING SELECTION

On-Hook Data Transmission

5.36 FSK OSI

Description: This field is used to indicate the per-line control of sending the OSI (Open Signaling Interval).

Software Release: 5E15 and later

Default: N

Valid Entries: Y, N

Data Rules:

For 5E15 and later:

When GST is "Y", FSK OSI must be "N".

When FSK OSI is "Y", the LCC and RAX on the LCC form (5306 Record) must have CLASS OF SERVICE equal to "ATND" or "INDIV".

When FSK OSI is set to "Y", the ACT field for SFID 613 on the SFSYS form (5713-1 Record) must also be set to "Y".

MULTIPLE WORK STATION NUMBERS

With Multiple WSNs 1, 2, 3, and 4, the TLWS form would be submitted with four entries with a Talk and Monitor (T&M) phone assigned to WSN 1, 3, and 4. Note that WSN=1 is the MCC/TLWS; WSN 2=SCC/TLWS; WSN 3 and 4=Supplemental TLWSs

TLWS Form (5511 Record)			LINE Form (5109 Record)	
WSN	T&M TN	TN	TEST CODE	
1	357-9234	357-9900	101	
2	-	357-9901	IC1	
3	357-9235	357-9903	IC3	
4	357-9236	357-9904	IC4	

MLHG Form (5110 Record)		MLHLN Form (5111 Record)		
MLHG	LISTED TN	MLHG	TERM	TN
500	357-9234	500	001	357-9234
		500	002	357-9235
		500	003	357-9236

The assignment of TNs to Terminals on the MLHLN form should be made so that Terminal 1 is highest priority, Terminal 2 is the next highest, etc.

Figure 2 5ESS SWITCH EQUIPPED WITH MULTIPLE WORK STATIONS

CALLING PARTY RECEIVING STATE CHANGE TO	STATMON	TONEDET	SIGNAL SENT TO 911 BUREAU	
			BATTERY POLARITY	LOW TONE
ONHOOK	Y	Y	N/C	APPLIED
ONHOOK	Y	N	NORMAL	APPLIED

ONHOOK	N	Y	NORMAL	APPLIED
ONHOOK	N	N	NORMAL	APPLIED
OFFHOOK	Y	Y	N/C	REMOVED
OFFHOOK	Y	N	REVERSE	REMOVED
OFFHOOK	N	Y	REVERSE	REMOVED
OFFHOOK	N	N	REVERSE	REMOVED

Figure 3 CONDITIONS ASSOCIATED WITH 911 EMERGENCY SERVICE BUREAU CAPABILITIES

LCC/CLASS OF SERVICE	LINE/MLHLN PTY	LINE/MLHLN MFRI
4PFS	1-4 (LINE only)	N
4PSS	1-4 (LINE only)	N
8PSS	1-8 (LINE only)	N
5PTY	1-5 (LINE only)	N
10PTY	1-9,0 (LINE only)	N
INDIV	I	N
INDIV	1-9,0	Y
2PTY	1-9,0 (LINE only)	N
TWOPTY	T,R (LINE only)	N
COIN	1-9,0 (LINE only)	Y
COIN	-	N
PBX	1-9,0	Y
PBX	I	N
HOTPBX	1-9,0	Y
HOTPBX	I	N

Figure 4 CONDITIONS ASSOCIATED WITH 911 ESB CAPABILITIES

PARTY VALUE LINE/MLHLN PTY	FREQUENCY CLASS ON IMINFO FORM FOR ANALOG LINES		
	HARMONIC IMINFO-HAR	SYNCHROMONIC IMINFO-SYN	DECIMONIC IMINFO-DEC
1,6	33.3	30	30
2,7	50	42	40
3,8	66.6	54	50
4,9	16.6	66	60
5,0	25	20	20

PARTY VALUE LINE/MLHLN PTY	FREQUENCY VALUES FOR ISLC-96 LINES		
	HARMONIC	SYNCHROMONIC	DECIMONIC
1	25	30	30
2	33.3	42	40
3	50	54	50
4	16.7	20	20

Figure 5 LINE PARTY VALUE TO MULTI-FREQUENCY RINGING FREQUENCY

```

line                               5ESS Switch
SCREEN 1 OF 4                     OFFICE DATA ADMINISTRATION
(5109)                            TELEPHONE NUMBER

*1. TN      _____          13. EL      N      TERM FEATURES          33. LNEQ N
    NEW TN   _____          14. FGA     N      24. SUST      N
#3. RAX     ____          15. FLS     N      25. ICP      N
#4. LCC     ____          16. SUSO    N      26. DNY BV N
    OE      _ _____          17. DNY ROH N      27. TRC      N
    RTI     _____          18. PALIT   N
    PTY     I              19. PSLIM   N      EQUIPMENT
10. MFRI    N              20. COMPL  N      28. COIN     N
ORIG FEATURES          21. SLUS    N      29. GST      N
                      22. DTLBILL N      30. TSTLINE N

```

11. TTC N	23. TRAFFIC N	31. GNDREF N
12. BRCS N		32. RANGEX NONE

line 5ESS Switch
 SCREEN 2 OF 4 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

MISC FEATURES		45. RMK
34. SERHLN	_____	46. SA TST ROUTE N
BCK LNK	_____	
36. ALT BILL TN	_____	BASIC 911 ESB
37. NO DIAL	N	47. RINGBACK N
38. HOT LINE TN	_____	48. STATMON N
39. TEST CODE	_____	49. TONDET N
40. BUSY MONITOR	N	
41. ATT MLHG	_____	
42. RBV TGN	_____	
43. ANI7	N	
44. TR303 NAILUP	N	

line 5ESS Switch
 SCREEN 3 OF 4 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

SCAN & DIST. POINTS	LASS FEATURES	LTSB/IALT
50. MSG REGISTER	57. AC ALW	68. ASSOC OE
51. SLEEVE LEAD CKT	58. AR ALW	71. LEAD PORT N
52. MAKE BUSY KEY	59. COT ALW	IALT N
53. CARRIER GRP ALM	60. PCP ALW	73. MAN EXCL N
	61. SCA GA ALW	
54. SHARED N	62. SCF GA ALW	4-WIRE SPECIFICATIONS
55. PRIVACY	63. SCR GA ALW	74. ROUTINE RINGING
56. OVRD DNY XFER N	64. SDA GA ALW	75. PRIORITY RINGING
	65. ALT LANG N	76. AUDIBLE RINGING
	66. UCR N	77. INC. START SIGNAL
	67. UCR ACTIVE N	78. CONFERENCE BRIDGE

```

line                               5ESS Switch      _
SCREEN 4 OF 4                      OFFICE DATA ADMINISTRATION
(5109)                             TELEPHONE NUMBER

      SCD SCREENING _              USTWC              ASP
80. CLSS                N          89. USTWC ALW      _      95. OFC OBL INH N
81. MCLD DEACT          N          90. SUBSCR USTWC N      96. OFC ONA INH N
82. BLK 1PLUS           NONE
83. LONG DST DR        N          91. CID CW N              MONITORED TN _
84. CIDIAL             _____ 98. INHIBIT DEL    N
85. PIC                _____ NUMBER PORTABILITY 99. CONTEXT ID    NATIVE
86. PTC                _____ 92. LRN INDEX      ____
87. PLC                _____ 93. PORTED-IN AMA N
88. UNBUNDLED          N          94. NON COND TRIG N

```

Figure 6 SAMPLE LINE FORM 5E14 SOFTWARE RELEASE

```

line                               5ESS Switch
SCREEN 1 OF 5                      OFFICE DATA ADMINISTRATION
(5109)                             TELEPHONE NUMBER

*1. TN      _____          13. EL        N      TERM FEATURES      33. LNEQ N
    NEW TN   _____          14. FGA        N      24. SUST        N
#3. RAX      _____          15. FLS        N      25. ICP        N
#4. LCC      _____          16. SUSO        N      26. DNY BV     N
  5. OE      _ _____          17. DNY ROH     N      27. TRC        N
  8. RTI      _____          18. PALIT       N
  9. PTY      I _____          19. PSLIM       N      EQUIPMENT
10. MFRI     N _____          20. COMPL      N      28. COIN       N
                                21. SLUS        N      29. GST        N
ORIG FEATURES                  22. DTLBILL    N      30. TSTLINE    N
11. TTC     N _____          23. TRAFFIC    N      31. GNDREF     N
12. BRCS    N _____          32. RANGEX     NONE

```

```

line                               5ESS Switch
SCREEN 2 OF 5                      OFFICE DATA ADMINISTRATION
(5109)                             TELEPHONE NUMBER

      MISC FEATURES              45. RMK      _____
34. SERHLN      _____          46. SA TST ROUTE N
    BCK LNK      _____
36. ALT BILL TN  _____          BASIC 911 ESB
37. NO DIAL      N _____          47. RINGBACK N
38. HOT LINE TN  _____          48. STATMON   N
39. TEST CODE    _____          49. TONDET    N
40. BUSY MONITOR N
41. ATT MLHG     _____

```

42. RBV TGN _____
 43. ANI7 N
 44. TR303 NAILUP N

line 5ESS Switch
 SCREEN 3 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

SCAN & DIST. POINTS	LASS FEATURES	LTSB/IALT
50. MSG REGISTER _____	57. AC ALW _	68. ASSOC OE _
51. SLEEVE LEAD CKT _____	58. AR ALW _	71. LEAD PORT N
52. MAKE BUSY KEY _____	59. COT ALW _	IALT N
53. CARRIER GRP ALM _____	60. PCP ALW _	73. MAN EXCL N
	61. SCA GA ALW _	
54. SHARED N	62. SCF GA ALW _	4-WIRE SPECIFICATIONS
55. PRIVACY _	63. SCR GA ALW _	74. ROUTINE RINGING _____
56. OVRD DNY XFER N	64. SDA GA ALW _	75. PRIORITY RINGING _____
	65. ALT LANG N	76. AUDIBLE RINGING _
	66. UCR N	77. INC. START SIGNAL _____
	67. UCR ACTIVE N	78. CONFERENCE BRIDGE _

line 5ESS Switch
 SCREEN 4 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

SCD SCREENING _	USTWC	ASP
80. CLSS N	89. USTWC ALW _	96. OFC OBL INH N
81. MCLD DEACT N	90. SUBSCR USTWC N	97. OFC ONA INH N
82. BLK 1PLUS NONE	91. USTWC ALW XFER N	98. URT FCD BLK N
83. LONG DST DR N		BLK LN CODE _
84. CIDIAL _____	92. CID CW N	
85. PIC _____		MONITORED TN _
86. PTC _____	NUMBER PORTABILITY	101. INHIBIT DEL N
87. PLC _____	93. LRN INDEX _____	102. CONTEXT ID NATIVE
88. UNBUNDLED N	94. PORTED-IN AMA N	
	95. NON COND TRIG N	USAGE SENSITIVE SIX WAY CALLING
		103. USSWC ALW _

line 5ESS Switch
 SCREEN 5 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

USAGE SENSITIVE CALL FORWARDING
 104. USCF ALW _
 USCF ACT N

Figure 7 SAMPLE LINE FORM 5E15 SOFTWARE RELEASE

```

line                               5ESS Switch
SCREEN 1 OF 5                     OFFICE DATA ADMINISTRATION
(5109)                           TELEPHONE NUMBER

*1. TN      _____          13. EL      N      TERM FEATURES          33. LNEQ N
    NEW TN  _____          14. FGA      N      24. SUST      N
#3. RAX      _____          15. FLS      N      25. ICP      N
#4. LCC      _____          16. SUSO      N      26. DNY BV N
5. OE      _ _____          17. DNY ROH N      27. TRC      N
8. RTI      _____          18. PALIT      N
9. PTY      I _____          19. PSLIM      N      EQUIPMENT
10. MFRI     N _____          20. COMPL      N      28. COIN      N
                                21. SLUS      N      29. GST      N
ORIG FEATURES                    22. DTLBILL N      30. TSTLINE N
11. TTC      N                    23. TRAFFIC N      31. GNDREF      N
12. BRCS      N                    32. RANGEX      NONE

```

```

line                               5ESS Switch
SCREEN 2 OF 5                     OFFICE DATA ADMINISTRATION
(5109)                           TELEPHONE NUMBER

                                MISC FEATURES
34. SERHLN    _____          45. RMK      _____
    BCK LNK    _____          46. SA TST ROUTE N
36. ALT BILL TN _____          BASIC 911 ESB
37. NO DIAL    N _____          47. RINGBACK N
38. HOT LINE TN _____          48. STATMON      N
39. TEST CODE  _____          49. TONDET      N
40. BUSY MONITOR N
41. ATT MLHG   _____
42. RBV TGN    _____
43. ANI7       N
44. TR303 NAILUP N

```

```

line                               5ESS Switch
SCREEN 3 OF 5                     OFFICE DATA ADMINISTRATION
(5109)                           TELEPHONE NUMBER

                                SCAN & DIST. POINTS          LASS FEATURES          LTSB/IALT
50. MSG REGISTER _____          57. AC ALW      _      68. ASSOC OE      _ _____
51. SLEEVE LEAD CKT _____          58. AR ALW      _      71. LEAD PORT N

```

52. MAKE BUSY KEY _____	59. COT ALW _ IALT N
53. CARRIER GRP ALM _____	60. PCP ALW _ 73. MAN EXCL N
	61. SCA GA ALW _
54. SHARED N	62. SCF GA ALW _ 4-WIRE SPECIFICATIONS
55. PRIVACY _	63. SCR GA ALW _ 74. ROUTINE RINGING _____
56. OVRD DNY XFER N	64. SDA GA ALW _ 75. PRIORITY RINGING _____
	65. ALT LANG N 76. AUDIBLE RINGING _
	66. UCR N 77. INC. START SIGNAL _____
	67. UCR ACTIVE N 78. CONFERENCE BRIDGE _

line 5ESS Switch
SCREEN 4 OF 5 OFFICE DATA ADMINISTRATION
(5109) TELEPHONE NUMBER

SCD SCREENING _	USTWC	ASP
80. CLSS N	89. USTWC ALW _	96. OFC OBL INH N
81. MCLD DEACT N	90. SUBSCR USTWC N	97. OFC ONA INH N
82. BLK 1PLUS NONE	91. USTWC ALW XFER N	98. URT FCD BLK N
83. LONG DST DR N		BLK LN CODE _
84. CIDIAL _____	92. CID CW N	
85. PIC _____		MONITORED TN _
86. PTC _____	NUMBER PORTABILITY	101. INHIBIT DEL N
87. PLC _____	93. LRN INDEX _____	102. CONTEXT ID NATIVE
88. UNBUNDLED N	94. PORTED-IN AMA N	
	95. NON COND TRIG N	USAGE SENSITIVE SIX WAY CALLING
		103. USSWC ALW _

line 5ESS Switch
SCREEN 5 OF 5 OFFICE DATA ADMINISTRATION
(5109) TELEPHONE NUMBER

USAGE SENSITIVE CALL FORWARDING

104. USCF ALW _
USCF ACT N

ON-HOOK DATA TRANSMISSION

107. FSK OSI _

Figure 8 SAMPLE LINE FORM 5E16(1) SOFTWARE RELEASE

line 5ESS Switch
SCREEN 1 OF 5 OFFICE DATA ADMINISTRATION
(5109) TELEPHONE NUMBER

*1. TN _____	13. BRCS N	TERM FEATURES	34. LNEQ N
NEW TN _____	14. EL N	25. SUST N	
#3. RAX _____	15. FGA N	26. ICP N	
#4. LCC _____	16. FLS N	27. DNY BV N	
5. OE _ _ _____	17. SUSO N	28. TRC N	
8. RTI _____	18. DNY ROH N		
9. PTY I	19. PALIT N	EQUIPMENT	
10. MFRI N	20. PSLIM N	29. COIN N	
11. CODE RESTRICT _____	21. COMPL N	30. GST N	
	22. SLUS N	31. TSTLINE N	
ORIG FEATURES	23. DTLBILL N	32. GNDREF N	
12. TTC N	24. TRAFFIC N	33. RANGEX NONE	

line 5ESS Switch
 SCREEN 2 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

MISC FEATURES		
35. SERHLN _____	46. RMK _____	
BCK LNK _____	47. SA TST ROUTE N	
37. ALT BILL TN _____	BASIC 911 ESB	
38. NO DIAL N	48. RINGBACK N	
39. HOT LINE TN _____	49. STATMON N	
40. TEST CODE _____	50. TONDET N	
41. BUSY MONITOR N		
42. ATT MLHG _____		
43. RBV TGN _____		
44. ANI7 N		
45. TR303 NAILUP N		

line 5ESS Switch
 SCREEN 3 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

SCAN & DIST. POINTS	LASS FEATURES	LTSB/IALT
51. MESG REGISTER _____	58. AC ALW _	69. ASSOC OE _
52. SLEEVE LEAD CKT _____	59. AR ALW _	72. LEAD PORT N
53. MAKE BUSY KEY _____	60. COT ALW _	IALT N
54. CARRIER GRP ALM _____	61. PCP ALW _	74. MAN EXCL N
	62. SCA GA ALW _	
55. SHARED N	63. SCF GA ALW _	4-WIRE SPECIFICATIONS
56. PRIVACY _	64. SCR GA ALW _	75. ROUTINE RINGING _____
57. OVRD DNY XFER N	65. SDA GA ALW _	76. PRIORITY RINGING _____

66. ALT LANG N 77. AUDIBLE RINGING _
 67. UCR N 78. INC. START SIGNAL _____
 68. UCR ACTIVE N 79. CONFERENCE BRIDGE _

line 5ESS Switch
 SCREEN 4 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

SCD SCREENING _	USTWC	ASP
81. CLSS N	90. USTWC ALW _	97. OFC OBL INH N
82. MCLD DEACT N	91. SUBSCR USTWC N	98. OFC ONA INH N
83. BLK 1PLUS NONE	92. USTWC ALW XFER N	99. URT FCD BLK N
84. LONG DST DR N		BLK LN CODE _
85. CIDIAL _____	93. CID CW N	
86. PIC _____		MONITORED TN _
87. PTC _____	NUMBER PORTABILITY	102. INHIBIT DEL N
88. PLC _____	94. LRN INDEX _____	103. CONTEXT ID NATIVE
89. UNBUNDLED N	95. PORTED-IN AMA N	
	96. NON COND TRIG N	USAGE SENSITIVE SIX WAY CALLING
		104. USSWC ALW _

line 5ESS Switch
 SCREEN 5 OF 5 OFFICE DATA ADMINISTRATION
 (5109) TELEPHONE NUMBER

USAGE SENSITIVE CALL FORWARDING

105. USCF ALW _
 USCF ACT N

ON-HOOK DATA TRANSMISSION

108. FSK OSI _

Figure 9 SAMPLE LINE FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 1J: 5110-1/2/3/4 RECORD MULTI-LINE HUNT GROUP FORM - MLHG

1. GENERAL

The 5110-1/2/3/4 Record is available with 5E2 and later Software Releases, and is used to define Multi-Line Hunt Group information. The 5110-2 Record is used to define MUPH (Multiple Position Hunt) for nondata link attendant console positions.

1.1 MLHG Feature Assignment

Multi-Line Hunt Group features are to be assigned to Multi-Line Hunt Groups not individual lines. They cannot be assigned to the CLUSTR (5600 Record), LINEFA (5112 Record), MLHLNFA (5113 Record) or TRUNKFA (5205 Record) forms.

1.2 Circuit Switching Hunt Types

The 5ESS Switch offers four types of hunting within a Multi-Line Hunt Group: Regular Hunt, Circle Hunt, Uniform Call Distribution, and Multiple Position Hunt.

Regular Hunt is an arrangement in which hunting begins with the Start Hunt Terminal Number and continues sequentially through the last terminal number in the Multi-Line Hunt Group.

Circle Hunt is an arrangement in which hunting begins with the Terminal Number associated with the called number, and continues sequentially through the last terminal number in the Multi-Line Hunt Group. Hunting resumes starting with Terminal Number 1, and continues through the Terminal Number preceding the Start Hunt Terminal Number.

Uniform Call Distribution is an arrangement in which hunting begins when the main Directory Number of a UCD hunt group is dialed. For example, if a call is directed to the main Directory Number, a hunt for an available member would start at the "start hunt member". This is UCD hunt. However, when a Directory Number of a member of a UCD hunt group is dialed, a Circular Hunt starting at the dialed member is made and the UCD hunt is not used. For example, if a call is directed to a member of the UCD hunt group, the UCD function recognizes that the call is not directed to the main Directory Number of the group, and therefore, it does not start the hunt at the "start hunt number"; instead the hunt starts at the member of the dialed Directory Number.

Multiple Position Hunt is an arrangement in which hunting begins when a subgroup Directory Number is dialed. A subgroup is one of the six possible Directory Numbers in a MUPH group of a nondata link attendant console in a Multi-Line Hunt Group. MUPH uses a two stage hunt to complete a call. The first stage of hunting, which begins with the start hunt position, is a circular search for an idle console (position) in the hunt group. The second stage of hunting is a sequential search for an idle line of matching Call Type (subgroup) assigned to that console. Once an idle console (position) with an idle line of the desired Call Type is found using the two stage hunt, the call is then completed. MUPH only allows one call at a time to complete to an idle console.

1.3 Packet Switching Hunt Types

The 5ESS Switch offers two types of hunting for Packet MLHGs. For 5E3 and later, the primary hunt method assigned to all Packet MLHGs is "PSUCD" (Uniform Call Distribution). For 5E8 and later, packet MLHG members may optionally be assigned Linear Hunt TNs as entry points for linear hunting into the MLHG.

With the UCD algorithm, the first member of the MLHG is designated as the start hunt member when the switch is initialized or when the MLHG is created. Hunting begins with this member when the first incoming packet call is placed to the MLHG. When an idle member is found, a start hunt member for the next call is selected via a "pre-hunt". This start hunt member is the first non-busy hunt group member that is a successor to the hunt group member to which the call was offered. When a subsequent hunt call is made, the UCD hunting algorithm begins at this member. The member may become busy in the interim; for example, enough non-hunted calls to the member or enough originations from the member could have made the member busy for hunting. In this case, hunting would proceed to find the next non-busy member in the normal manner.

The Linear Hunt algorithm for packet MLHGs is similar to the Regular Hunt type for circuit MLHGs. The linear hunt begins with the start hunt terminal and continues sequentially through the last terminal number of the MLHG.

1.4 RSM Stand-Alone Announcements

The Remote Switching Module Stand-Alone Announcement capability provides the RSM with the ability to connect a stand-alone announcement to RSM customers. The type of announcement machines the customer can use are those which are commercially available to connect to the RSM by using lines (LENs) as opposed to a 13A Recorded Announcement machine mounted on a Trunk Unit.

Each port of the announcement machine connects to one line (LEN) on a Line Unit. The lines of this announcement group must be defined as a "local" Multi-Line Hunt Group (each member is assigned to the same SM). The number of simultaneous announcements which can be given is equal to the number of members (terminals) in the MLHG.

The Stand-Alone Announcement is routed to only when RSM goes into Stand-Alone mode. It is not available for general announcement use.

The 5ESS Switch provides these line side RSM announcements on a barge-in basis. Some commercially available announcement machines may have their own non-barge in option which is implemented by not answering the "call" to the announcement port until the beginning of the announcement.

The 5ESS Switch does not provide a forced disconnect treatment for what looks like a standard call to a line. If a subscriber should refuse to go on-hook, then the particular announcement port that the customer is connected to will be indefinitely busy. Some commercially available announcement machines have their own time disconnect option based on the customer exceeding some given number of cycles of the announcement.

A call through a Line Unit has the possibility to be blocked, due to the nature of the space division line concentrator. The subscriber would receive reorder instead of the Line Side Stand-Alone Announcement. To minimize the possibility of line concentrator blocking, it is recommended that the switch owner spread the actual LEN assignment of the MLHG Terminal Number over several Line Concentrators within the RSM.

When all lines in the MLHG, RSM Line Side Stand-Alone Announcement are busy, then reorder instead of busy tone will be provided.

1.5 Initial Offices

For initial offices only, an MLHG must have at least one member defined on an MLHLN (5111 Record), OSPDSL (5411 Record) or DSMLHLN (5901 Record) form. If the definition is on the MLHLN form, the TERM field must be entered.

If the definition is on the OSPSDSL form: "XDB" must be entered in the SERVICE CLASS field; the MLHG entered in the DSL NAME ID field; and an MLHG member number entered in the DSL NAME RL field. An associated MLHGFD form (5604 Record) must exist with a HUNT TYPE of "PSUCD".

If the definition is on the DSMLHLN form, then the CKT TERM or PKT TERM fields must be entered.

1.6 Release Link Trunks

RLTs (Release Link Trunks) are provided between a main switch and branch switches to enable the attendant to implement Centralized Attendant Services. The 5ESS Switch can function as either a main or a branch switch. Refer to Division 2, Section 1A1, for more information on CAS/RLS.

1.7 Recent Change View

The corresponding Recent Change View for this form is 3.5.

2. FORM ENTRIES - 5110-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and Office Name.

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group Number.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

Data Rules:

When assigning Multi-Line Hunt Group Numbers, entries exceeding 999 are not recommended until the range of 1 - 999 is completely exhausted.

When the MLHG has been defined as a Modem Pool Group by entering a value for MPTYPE (excluding "BILL" and "NOBILL") and a CLASS OF SERVICE of "MODEM" on the corresponding LCC form (5306 Record), the matching MLHLN forms (5111 Record) must have CIDIAL set to "REQ".

For 5E15 and later, ACT must be "Y" for SFID 351 in order for MLHG numbers to be in the range of 2001 - 8191.

2.3 # MLHG FEATURE

Description: Enter the Multi-Line Hunt Feature Name.

Required Field.

Valid Entries: 1 - 8 characters

Data Rules:

The feature name must be defined on a corresponding MLHGFD form (5604 Record) either as a preconstructed or switch owner constructed feature.

2.4 LISTED TN

Description: Enter the listed Telephone Number of the MLHG.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

The LISTED TN must be entered when HUNT TYPE on the MLHGFD form is "REG", "HTC", or "UCD". For 5E3 and later, it must also be entered when HUNT TYPE is "PSUCD", or "PMHG".

For "REG", "HTC", "PRRG", and "PMHG" the Telephone Number entered here must also be entered in the TN field of the MLHLN form (5111-1 Record) for Terminal 1 of this MLHG. For "UCD" and "PSUCD" the Telephone Number entered here must be unique, i.e., the LISTED TN must not be defined on any LINE (5109 Record), MLHLN (5111 Record), DSMLHLN (5901 Record), DSL (5900 Record) or PSMTN (5925 Record) forms.

An entry is prohibited when Hunt Type is "MUPH" or "ISAT".

If a Packet Switching group is being defined, enter the lowest TN that will serve as a Group Hunt number.

The NXX must be defined as an OFFICE CODE on a NOC form (5501 Record).

For 5E12 and later, if the first 3 digits of the 7-digit LISTED TNs on the MLHG form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, LISTED TN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

- **WARNING:** For the LISTED TN(s) on MLHG, there must be at least one corresponding member on the MLHLN form or the TN may not be entered on one or more of the following input forms:

- ACDTN
- ACQS
- AMLBDL
- DSL
- DSLUSR
- LINE
- MLHG
- MLHLN
- MTNDR
- MULTITN
- PSMTN
- RDTAPORT
- SHTN or
- XAT

2.5 HIGHEST LISTED TN

Description: If more than a single TN is to be used as a Group Hunt number, enter the highest TN. This field is used only if the Multi-Line Hunt Group is a Packet Switching group.

NOTE: This field in Recent Change is LAST LISTED TN.

Software Release: 5E3 and later

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If only one Group Hunt number is desired, this field may be left blank or the same value specified for LISTED TN may be entered. The HIGHEST LISTED TN must have the same office code and be greater than the LISTED TN.

For 5E8 and later, if HIGHEST LISTED TN is entered, CLIENT TN TYPE cannot be entered.

For 5E12 and later, if the first 3 digits of the 7-digit HIGHEST LISTED TNs on the MLHG form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, or the NOC form does not exist, HIGHEST LISTED TN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, when the MLHG forms have an entry for LISTED TN and HIGHEST LISTED TN. These TNs must have the same value for NPA and NXX.

For 5E12 and later, when the MLHG forms have an entry for LISTED TN and HIGHEST LISTED TN. HIGHEST LISTED TN must be greater than LISTED TN.

2.6 GROUP TRC

Description: Should call trace be activated for the LISTED TN and SUB TNs of a "UCD", "ISAT", or "MUPH" group? When call trace is activated, it is used to trace all incoming calls to the LISTED TN or SUB TNs of the MLHG. For each call, a record is printed on the Maintenance TTY.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

GROUP TRC can be set to "Y" only when the corresponding MLHGFD form (5604 Record) has HUNT TYPE set to "UCD", "ISAT", or "MUPH".

2.7 # RAX

Description: Enter the Rate Center that should be used for routing and charging. The Rate Area and Line Class Code assignment designates which Digit Analysis Selector will be used for routing and charging of calls.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

Data Rules:

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

2.8 GROUP MAKE BUSY KEY

Description: If the Multi-Line Hunt Group is equipped with a Group Make Busy Key, enter the Miscellaneous Equipment Number.

Valid Entries: Standard format for a Scan Point Number.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Scan Point Number	SPN	XX	00-30

Data Rules:

For 5E3 and later, Group Make Busy is not allowed on Packet Switching MLHGs; therefore, if HUNT TYPE is set to "PSUCD" on the corresponding MLHGFD form (5604 Record), then the GROUP MAKE BUSY KEY field must not be entered.

2.9 OVERFLOW PEG COUNT REG

Description: If the Multi-Line Hunt Group is equipped with a Remote Message Register to record group overflow, enter the Miscellaneous Equipment Number. When equipped, this register will record overflow when an all Terminal Busy Condition is encountered.

The Distribute Point Number of a register keeps track of calls into an MLHG that deny service (given a busy tone) because all terminals in the group are in use. This register is used as a measurement tool to tell when to add more MLHG members.

Valid Entries: Standard format for a Distribute Point Number.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

Data Rules:

If this field has an entry, then OVFLWREG on the associated MLHGFD form must have a value of "Y".

2.10 LOCAL SM

Description: Enter the Switching Module Number for local operation of SM if all members of a Multi-Line Hunt Group are assigned to equipment numbers (LEN, SLEN or LCENs) that are defined on the same Module. A "local" MLHG is a group where each member is assigned to the same Switching Module.

Software Release: 5E5 and later

Valid Entries: 1 - 192

Data Rules:

For 5E5 and later, if a QUEUING FEATURE is entered, it is recommended that the LOCAL SM value equal the QUEUE MODULE value on the corresponding QUFD form (5617 Record) or QUGPA form (5617 Record).

If the Multi-Line Hunt Group is global, this field must be blank. (A "global" MLHG is a group that has its members associated with equipment numbers that are spread over two or more Switching Modules.)

The SM entered must be defined on the EQIM form (5700-1/2 Record).

2.11 SM SA ANNC

Description: Is the Switching Module to provide the Line Side Module Stand-Alone Announcement capability?

Only one Multi-Line Hunt Group per Module site can have the Line Side Stand-Alone Announcement capability. This feature also takes precedence over a 13A Recorded Announcement if both are specified on a given Switching Module.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", then the LOCAL SM field must be entered.

The following restrictions apply to the Module Stand-Alone Announcement MLHG and associated terminals:

The MLHG must be local to the Module; LOCAL SM field must equal the Switching Module that all the MLHG terminals are assigned to.

Only one MLHG per Remote Module can have SM SA ANNC field equal to "Y".

The MLHG FEATURE must be defined on an MLHGFD form (5604 Record) with a HUNT TYPE of "UCD" (Uniform Call Distribution).

Each of the individual terminals defined on the MLHLN form (5111 Record) for this Multi-Line Hunt Group must be assigned with the following restrictions:

- FLS (Free service) must equal "Y".
- SUSO (Deny Origination) must equal "Y".
- No custom calling features allowed; BRCS must equal "N".

- OE TYPE must equal "C", "L", or "E" (5E11 and later).
- PTY must equal "I" (Individual) and MFRI must equal "N". Remote Module Line Side Announcement is incompatible with Multi-Frequency Ringing.

2.12 # FEATURE GROUP A

Description: Are the members of this MLHG Feature Group A? FGA (Feature Group A) is an access arrangement to provide line-terminated end-to-end InterLATA (Local Access and Transport Area) service. All members of an MLHG must be either FGA, or non-FGA.

Required Field.

Default: N

Valid Entries: N, Y

Data Rules:

All members of an MLHG with FGA equal to "Y" must have the same signaling type (TTC equal to "Y" or "N").

If Feature Group A (FGA) is set to "Y", every associated MLHLN form must have its OE TYPE set to "C", "L" or "S".

For 5E3 and later, if the Class of Service on the LCC form (5306 Record) is "4WINDIV", then the Feature Group A value must be "N".

2.13 FIRST PREEMPT MEMB

Description: This field is associated with an AUTOVON (Automatic Voice Network). The AUTOVON interface capability is defined using the BRCS feature, Precedence and Preemption. If this MLHG is Preemptable, enter the First Preemptable Multi-Line Hunt Group Member.

Valid Entries: 1 - 2015

Data Rules:

The MLHG is Preemptable if the associated MLHGFD is defined with a Hunt Type of "PRRG". When an MLHG is Preemptable, each terminal in the MLHG must have a Precedence and Preemption BRCS feature assigned and must be either preemptable or non-preemptable as specified on the PPMPA form (5618-4 Record) or as a default parameter on the PPF form (5618-1 Record). All terminals which are less than the value entered in FIRST PREEMPT MEMB, must be specified as non-preemptable. All terminals which are equal to or greater than the value, must be specified as preemptable.

If a Modem Pool Group is being defined, which is indicated by an entry in the MPTYPE field on this form, then this field must be left blank.

If a Packet Switching Group (DSL members) is being defined, which is indicated by a HUNT TYPE of "PSUCD" on the MLHGFD form, then this field must be left blank.

2.14 REMARKS

Description: Remarks entered for administrative purposes.

Valid Entries: 1 - 16 characters

3. FORM ENTRIES - 5110-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name.

SUBGROUP TNs

At least one of the following SUBTN fields must be entered when an associated HUNT TYPE of "MUPH" or "ISAT" is defined on an MLHGFD form. A maximum of 6 subgroups (SUBTN1-6) are allowed for MUPH hunting and a maximum of 8 subgroups (SUBTN1-8) are allowed for ISAT hunting. These subgroup TNs must be unique within the 5ESS Switch, therefore, they have no associated equipment.

3.2 SUBTN 1-8

Description: Enter a main telephone number for the subgroup.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

SUBTN7 and SUBTN8 are only used for ISAT hunt groups.

If one or more SUBTN is entered, then the LISTED TN field must be

Multiple Position Hunt allows a maximum of 16 positions with a maximum of 32 lines per console (see Figure 1). A console can have up to six subgroups; there are six members in the first two subgroups and five members in the remaining four subgroups. MUPH requires subgroup Telephone Numbers which are identified with the appropriate entire MUPH subgroup.

If a Modem Pool group is being defined, SUBTNs must not be specified.

For 5E12 and later, if the first 3 digits of the 7-digit SUBTN[x]s (where x = 1-8) on the MLHG form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, SUBTN[x] must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, the SUBTN[x]s (where X = 1-8) on the MLHG form must have a NXX and/or NPA/NXX combination that is an OFFICE CODE and/or NPA/OFFICE CODE combination on a NOC form.

■ **NOTE:** Position 1, Subgroup 6 only has four members.

3.3 STATS 24HRS

Description: Should the reinitialization period for the ISAT (ISDN Attendant) Offered Load Statistics be 24 hours? An entry of "Y" indicates that a 24 hour time period has been selected to reinitialize the ISAT load statistics. An entry of "N" indicates that a 30 minute time period has been selected.

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

If STATS 24HRS is "Y" then HUNT TYPE must be "ISAT" on the corresponding MLHGFD form.

ISAT CONFIGURATION

Fields Section 3.4 - Section 3.7 refer to Recent Change Display Only fields.

3.4 CONFIG1

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For an ISAT MLHG the Recent Change field displays a CONFIG GRP name.

3.5 CONFIG2

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For an ISAT MLHG the Recent Change field displays a CONFIG GRP name.

3.6 CONFIG3

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For an ISAT MLHG the Recent Change field displays a CONFIG GRP name.

3.7 CONFIG4

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For an ISAT MLHG the Recent Change field displays a CONFIG GRP name.

MONITORING OPTION

The fields (Section 3.8 - Section 3.10) are used for Monitoring Options.

3.8 # BUSY MONITOR

Description: Can the LISTED TN for this MLHG be monitored by the Busy Lamps of an ISDN Attendant MLHG?

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, if BUSY MONITOR is set to "Y", then MLHG FEATURE must be defined on an MLHGFD form where HUNT TYPE is "HTC", "PMHG", "REG", or "UCD".

For 5E5 and later, if BUSY MONITOR is "Y", the ATT MLHG field must be entered.

An ISDN Attendant Multi-Line Hunt Group can busy monitor a Hundreds Group (Telephone Numbers that share the same first five digits) only if those Telephone Numbers that can be busy monitored do not physically terminate to more than 12 processors (SMs and/or AM). Entering a LISTED TN on an MLHG form causes the AM to be counted as one of the processors.

The following Telephone Numbers can be included in the Hundreds Group, if the BUSY MONITOR field on

the form is set to "Y":

- a TN from a LINE form;
- a TN from a MLHLN form;
- a CKT TN from a DSL form;
- a CKT TN from a DSMLHLN form;
- a LISTED TN from an MLHG form;
- a TN (key) from a SHTN form (5902 Record).

The following physical terminations can be included in the Processor count, if the BUSY MONITOR field on the form is set to "Y":

- the first three digits (SM) of the OE NUMBER from a LINE form;
- the first three digits (SM) of the OE NUMBER from a MLHLN form;
- the first three digits (SM) of the LCEN from a DSL form;
- the first three digits (SM) of the LCEN from a DSMLHLN form;
- a LISTED TN from an MLHG form will cause the AM to be counted;
- The first TN in the SHARED LIST on a SHTN form has three possible cases:
 - If the TN matches the CKT TN on a DSL form, then the corresponding first three digits (SM) of the LCEN on that DSL form will be counted;
 - If the TN matches the CKT TN on a DSMLHLN form, then the corresponding first three digits (SM) of the LCEN on that DSMLHLN form will be counted;
 - If the MLHG and TERM NBR match the CKT MLHG and CKT TERM on a DSMLHLN form, then the corresponding first three digits (SM) of the LCEN on that DSMLHLN form will be counted.

3.9 ATT MLHG

Description: Enter the Attendant MLHG that can control the MLHG defined on this form.

Software Release: 5E5 and later

Valid Entries: For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The ATT MLHG must have a service class of "ISATND" or "ATND" defined on the LCC form (5306 Record).

If this field is entered, the ATT MLHG must be defined on an MLHG form (5110 Record). The MLHG form must contain an MLHG FEATURE defined with a HUNT TYPE of "ISAT" or "MUPH" on an MLHGFD form

(5604 Record). If the associated MLHG form has a HUNT TYPE other than "ISAT", BUSY MONITOR must be "N".

Any MLHG group controlled by an Attendant MLHG must have an MLHG FEATURE associated with a HUNT TYPE other than "ISAT" or "MUPH" on an MLHGFD form (5604 Record). For 5E7 and later if HUNT TYPE is "HTC", "REG", or "PMHG", then the first member of the MLHG (MLHG MEMBER 1) may not be assigned an ATT MLHG or RBV TGN on the DSLUSR or MLHLN form.

For 5E8 and later, if ATT MLHG is entered, RBV TGN must not be entered.

3.10 RBV TGN

Description: Enter the number of the incoming trunk group used to Remote Busy Verify the LISTED TN (DN) of this form. This TGN allows an ISAT (ISDN Attendant) on another 5ESS switch to Busy Verify this DN if the TGN is associated with a LISTED TN.

Software Release: 5E8 and later

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

If RBV TGN is entered, ATT MLHG must not be entered, BUSY MONITOR must be "N", LISTED TN must be entered, HIGHEST LISTED TN must not be entered, and SUBGROUP TNs: SUBTN1 must not be entered.

If RBV TGN is entered, there must be a corresponding TKGRP form (5202 Record) with that TGN defined, and that TKGRP form must have TRKCLS set to "ATNDVfy", and TRK DIR must be "INC". Also, for the TGN on the TKGRP form, there must be at least one corresponding TRUNK form (5204 Record) with QTY entered.

If RBV TGN is entered, MLHG FEATURE must equal FEATURE NAME on a corresponding MLHGFD form. The MLHGFD form must not have HUNT TYPE set to "MUPH", "ISAT" or "PSUCD".

3.11 PB GRP

Description: The PB GRP field applies to the Packet Switching Data Business Group Service feature. This feature enables a customer to set up and administer intraswitch PBGs (Packet Business Groups) by assigning a PBG number to each X.25 termination to distinguish between intragroup calls and other calls on the AMA billing record. If a PB GRP number is entered in this field, a value should be entered in the LISTED TN field; this will assign an MLHG to a PBG.

Software Release: 5E5 and later

Valid Entries: 1 - 100

Data Rules:

Leave this field blank if this MLHG is not a member of a PBG. If this field has an entry, then the HUNT TYPE on the corresponding MLHGFD (5604 Record) form must be "UCD" or "PSUCD".

PB GRP must be defined on a PBGRP form (5931 Record).

For 5E9(1) and later, if PB GRP is entered, and the MLHG FEATURE assigned on this form is defined on an

MLHGFD form with a HUNT TYPE of "UCD", then MPTYPE must be entered on this form.

3.12 BCLID MLHG ID

Description: Enter a two-character number to be sent as part of the BCLID (Bulk Calling Line Identification) message to the CPE. This number helps identify the Multi-Line Hunt Group customers generating the BCLID message when more than one BCLID customer is coming to the same AP (Application Processor) or CPE. This number is not unique among BCLID customers; if the customer so chooses, the same BCLID MLHG ID can be used for two different MLHG numbers. If no BCLID MLHG ID is defined, no MLHG ID is provided in BCLID messages (see Division 2, Section 1Y for more information about BCLID).

Software Release: 5E8 and later

Valid Entries: 00 - 99

4. FORM ENTRIES - 5110-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name.

QUEUING

The fields (Section 4.2 - Section 4.4) are used to control call queuing for MLHGs.

4.2 Q INDI HNT TNS

Description: Is queuing allowed for calls to individual hunted TNs? (An individual hunted TN is defined as TN on an MLHLN form (5111 Record) with NONHUNT set to "N" or is defined as CKT SWITCHING MLHG TN on a DSLUSR form (5908 Record) with CKT SWITCHING NONHUNT set to "N".)

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Q INDI HNT TNS may be "Y" only when QUEUING ALLOWED is "Y".

For 5E6 and later, if Q INDI HNT TNS is "Y", then the corresponding MLHGFD form must have BEARER set to "VOICE" and HUNT TYPE set to any value other than "MUPH".

For 5E6 and later, if Q INDI HNT TNS is "Y" and the corresponding MLHGFD form has HUNT TYPE "ISAT", then MLHG must appear as GRP NBR on an ICIPF form (5903 Record) where GRP TYP is "HUNT" and at least one of the HUNTING ICI values is "QUE".

4.3 QUEUING ALLOWED

Description: Is queuing allowed? This field provides the ability to temporarily remove QUEUING ALLOWED from a terminal without deleting its internal data structure.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If a Modem Pool group is being defined, this field must be "N".

If this field is "Y", then a Queuing Feature name must be defined on the QUFD form (5617 Record).

If MPTYPE is known, this field must be "N".

4.4 QFEATURE

Description: Enter the Modular Queuing Feature name.

Valid Entries: 1 - 8 characters

Data Rules:

The Modular Queuing Feature Name must not be the same name as the Multi-Line Hunt Group Feature Name.

The QFEATURE name should be defined on the QUFD form (5617-1/2 Record). The MLHG should also be defined on the QUGPA form (5617 Record) with the QUGPA FEATURE NAME the same as this field. If the field is entered, then the MLHG FEATURE must be defined on an MLHGFD form (5604 Record) with a HUNT TYPE of "HTC", "ISAT", "PMHG", "UCD", or "MUPH".

If a Modem Pool Group is being defined, which is indicated by an entry in the MPTYPE field on this form, then this field must not be entered.

If a QFEATURE is assigned on this MLHG with a HUNT TYPE other than "ISAT" on the MLHGFD form, the QFEATURE must be defined on a QUFD form with a THRESHOLD TYPE set to "T" or blank.

For 5E9(1) and later, when QFEATURE is defined on a QUFD form that has a value entered in the QMON THRESHOLD field, then the MLHG must appear as a MONITORED MLHG on at least one DSLQMON form (5904 Record).

For 5E7 and later, if a QFEATURE on this MLHG form is assigned to the same QUEUE MODULE on a QUFD form (5617-1/2 Record) or a QUGPA form (5617-3/4 Record), the QUEUE SIZE must not exceed 255 per QUEUE MODULE if (for 5E9(2) and later) the corresponding EQIM form (5700 Record) (where SM matches QUEUE MODULE) has UNIT TYPE set to a value other than "SM2000". Queue Size is the sum of the BASIC SIZE + EXTENDED SIZE + ROUTINE SIZE + PRIORITY SIZE on the QUFD or QUGPA forms for each of the QFEATUREs assigned to the same QUEUE MODULE.

For 5E9(2) and later, if QFEATURE is entered and has a HUNT TYPE of "ISAT" on the corresponding MLHGFD form, then corresponding ICIPF forms with GRP TYP of "HUNT" must have the PRIO field entered for every ICI or TGN field entered. A MLHF form corresponds with a MLHGFD form if FEATURE matches the FEATURE NAME on the MLHGFD form.

MODEM POOLING

The fields (Section 4.5 - Section 4.8) define parameters for an ISDN Modem Pool Group.

4.5 MPTYPE

Description: This field is used to specify the primary attribute of a Modem Pool group. If the Modem Pool

members (modems and terminal adaptors) are owned by the switch owner, then enter the baud rate to be used by every modem in the group.

If the Modem Pool members are owned by a private customer who is billed on a usage basis for the Modem Pool equipment, enter the value "BILL". If the Modem Pool members are owned by a private customer who is billed on a flat rate (e.g., period of time) basis for the Modem Pool equipment, enter the value "NOBILL".

Software Release: 5E3 and later

Valid Entries: 300, 1200, 2400, 4800, 9600 (bps);

- BILL, NOBILL

Data Rules:

If this field is entered, then MAINT and MPPFX fields must be entered.

If this field is entered, other field values must be set according to the following table.

Field	Value
QUEUING FEATURE	blank
QUEUE MASTER SWITCH	N
LISTED TN	a valid entry
HIGHEST LISTED TN	blank
FIRST PREEMPT MEMB	blank
MAINT	a valid entry
MPPFX	a valid entry
MPIDP	a valid entry
AP SITE ID	a valid entry
BCID1-6	a valid entry

For 5E6 and later, if MPTYPE is entered, and MLHG FEATURE matches FEATURE NAME on the MLHGFD form, then BEARER must be "VOICE" on the MLHGFD form.

4.6 MPPFX

Description: This field specifies a dialing sequence that instructs the modem to begin dialing. The sequence is determined by the modem manufacturer, therefore, every modem in a Modem Pool group must be from the same manufacturer.

Any printable keyboard character is acceptable with the exception of using the CONTROL key in combination with any other key. Certain keyboard characters have special meaning for the ODA software. Please refer to Division 1, Section 7, Figure 2 "5ODA Data Entry Control Characters", for a list of these characters. If the dialing sequence is a single character and that character is in the aforementioned list, enter a space before or after the character. This will remove the special meaning from the character.

Software Release: 5E3 and later

Valid Entries: 1 - 5 characters

4.7 MAINT

Description: Will the switch owner have the responsibility of maintaining the modems and terminal adaptors in the Modem Pool? If the equipment is owned by the switch owner, then enter "Y" to indicate that the switch owner will maintain the equipment.

If the equipment is owned by a private customer, but the switch owner will perform the maintenance, enter the value "Y".

If the equipment is owned by a private customer, and the private customer will perform the maintenance, enter a value of "N".

Software Release: 5E3 and later

Valid Entries: Y, N

4.8 MPIDP

Description: Does the office where the group resides support 4-digit dialing to any modem pool member in this modem pool group?

Software Release: 5E4(2) and later

Valid Entries: Y, N

Data Rules:

An entry in this field is permitted only if MPTYPE is known.

RELEASE LINK

The fields (Section 4.9 - Section 4.10) are for Release Link Trunks.

4.9 RLT TYPE

Description: Enter the type of Hold for this trunk.

Required Field.

Default: NONE

Valid Entries:

Valid RLT TYPE Entries	
Entry	Definition
NONE	This trunk is not an analog senderized FX trunk appearing as line. Therefore, it cannot be a RLT.
PERM	This RLT is not released when the terminating port answers (the attendant maintains control over the call with 50B or ISDN type consoles).
TEMP	This RLT is released when the terminating port answers (the attendant does not have control over the call).

4.10 RLT FLASH

Description: Should the branch switch send flashes for called party disconnect? "Y" is used if the main switch is a 5ESS with ISDN or status lamps consoles. "N" is used if the main switch is a 5ESS Switch with 50B consoles. When the field is "N", the branch switch will send flashes for called party answer and calling party disconnect.

There is limited signaling between a branch and the main location. Because 50B and ISDN attendant type consoles can only recognize a flash as called party answered this value is set at the branch to control the type of flashes sent to the main switch.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The field must be "Y" when RLT TYPE is "PERM".

MESSAGE SERVICE CENTER

The following fields (Section 4.12 - Section 4.15) are used for the MSC (Message Service Center) feature. Entries here will determine if the MLHG is an MSC. If the AP SITE ID and/or any of the BCID 1 through BCID 6 fields are entered, then the MLHG must be defined on the MSGP form (5962-2 Record) in the MSG SRV CNTR field. These fields are available in 5E4(2) and later Software Releases.

The CN-ISVM (CENTREX Network - Interswitch Voice Messaging) feature only supports a "Deluxe" MSC (Message Service Center): this requires an API (Application Processor Interface) link. Although a basic MSC could receive voice mail, interswitch MWI (Message Wait Indication) will not work on a basic MSC. For more information on CN-ISVM feature, see Division 2, Section 4A182.

4.11 MSC

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. The Recent Change display only field indicates whether an MLHG is a Message Service Center.

4.12 BCID SCRNING

Description: Is business customer ID screening allowed for this MSC? This field was added with the ISVM (Inter-Switch Voice Messaging) feature (see Div.2, Sec. 1BG). ISVM allows VM service providers to offer voice messaging on an inter-switch basis; however, since ISVM does not support the concept of inter-switch business groups, inter-switch calls would fail this check. For ISVM subscribers, an entry of "N" indicates that the call is forwarded to the MSC without BCID screening.

Software Release: 5E7 and later

Valid Entries: Y, N

Data Rules:

If BCID SCRNING is entered, CLIENT TN TYPE must be entered. Both BCID SCRNING and CLIENT TN TYPE must be entered to allow entries for AP SITE ID and BCID(1-6). When BCID SCRNING is "Y", at least one BCID (1-6) must be entered.

When BCID SCRNING is "N", AP SITE ID must be entered.

4.13 CLIENT TN TYPE

Description: Enter the Client telephone number type. This field was added with the ISVM (Inter-Switch Voice Messaging) feature (see Div. 2, Sec. 1BG). An entry of OCDN represents the Original Called Directory Number. RDN is the Redirecting Directory Number. Only a group DN and the dependent DNs of an MSC MLHG can be assigned a CLIENT TN TYPE. This option is not assigned on a per-member basis.

Software Release: 5E7 and later.

Valid Entries:

Valid CLIENT TN TYPE Entries	
Entry	Definition
OCDN	Original Called Directory Number
RDN	Redirecting Directory Number

Data Rules:

If CLIENT TN TYPE is entered, BCID SCRNING must be entered. Both CLIENT TN TYPE and BCID

SCRNING must be entered to allow entries for AP SITE ID and BCID[1-6].

When CLIENT TN TYPE is "RDN", AP SITE ID must be entered.

CLIENT TN TYPE cannot be entered when HIGHEST LISTED TN, SUBTN1 or MPTYPE are entered.

When CLIENT TN TYPE is entered, no SUBTNs can be entered.

When CLIENT TN TYPE is entered and the associated HUNT TYPE is "REG", or "HTC" on the MLHGFD form, the corresponding MLHG member 1 defined on either the MLHLN (5111 Record) or DSLUSR form (5908 Record) must have NONHUNT set to "N".

4.14 AP SITE ID

Description: Enter an Application Processor Identification number.

Software Release: 5E4(2) and later

Valid Entries: 1 - 255

Data Rules:

If an MLHG has been assigned as a Message Service Center Group, (indicated by entering a value for AP SITE ID or BCID[1-6]), then:

- if AP SITE ID is entered, a HUNT TYPE of "UCD", "REG", "MUPH", "PMHG" or "HTC" must be assigned on the corresponding MLHGFD form (5604 Record).
- if AP SITE ID is blank and BCID[1-6] is entered, a HUNT TYPE of "UCD", "REG", "HTC", "PMHG" or "ISAT" must be assigned on the corresponding MLHGFD form.

The AP SITE ID must be defined on the DSLAP form (5963 Record).

If the MLHG entry on this form appears in the MSG SRV CNTR field on a MSGP form where DELUXE is "Y", then the AP SITE ID must have an entry.

4.15 INTRA SW OCDN

Description: Is the DN passed to the VMS (Voice Messaging Service) the first DN the call terminates to on this switch (an intra-switch OCDN)? An entry of "N" indicates that the originally dialed DN will be sent to the VMS even if that DN is on another switch (an inter-switch OCDN). The name of this field was changed to INTRA SW DN for 5E9(2) and later, because it can now be used for CLIENT TYPES of OCDN (Original Called Directory Number) and RDN (Redirecting Directory Number). See INTRA SW DN for valid entries and data rules.

4.16 INTRA SW DN

Description: Should the Intra-switch Directory Number send the VMS the inter-switch DN (OCDN or RDN) or the intra-switch DN (OCDN or RDN). When set to "Y", this allows the delivery of the Near Switch on-switch OCDN or RDN delivery to the VMS. When this field is set to "Y", it blocks the inter-switch OCDN or RDN delivery from a Far Switch and allows the ISVM feature to be assigned to subscribers on the Near Switch with the VMS. ISVM does not have the requirements for BCID (Business Customer ID) and BCID Screening at the Message Service Group (MSG MLHG) and eliminates the need for screening for a BCID on the subscriber's line assignment for MWI (Message Waiting Indicator) activation and deactivation. This option is assignable on

a per Message Service Center Group basis. When set to "N", this allows the delivery of Far Switch OCDN or RDN for ISVM subscribers. This allows the delivery of the correct redirecting number to the VMS for off-switch ISVM Subscribers. This option is assigned on a per Message Service Group basis.

When set to "N", this allows the delivery of Far Switch OCDN or RDN for ISVM subscribers. This allows the delivery of the correct redirecting number to the VMS for off-switch ISVM Subscribers. This option is assigned on a per Message Service Group basis.

Note, the TFOS 554 bit is a per-switch option that controls whether OCDN is to be sent or not. When this bit is set to "Y", it overrides the current INTRA SW DN = "N" and disallows the inter-switch signaling of the OCDN or RDN and only presents the information equivalent to INTRA SW DN = "Y" information for all Message Service Groups on the Switch.

If both INTRA SW DN = "Y" and INTRA SW DN = "N" Message Service Groups are desired on the same switch, set the TFOS 554 bit to "N". When the TFOS 554 bit is set to "Y", INTRA SW DN is effectively set to "Y" or ignored.

Whether OCDN or RDN is sent is controlled by CLIENT TN TYPE field on the MULTITN form (5114 Record). This field applies to CLIENT TN TYPE of "OCDN" and "RDN".

For more information concerning this feature, see Division 2, Section 1BG.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E7 - 5E9(1), if INTRA SW OCDN is "Y", then BCID SCRNING must be "N".

For 5E9(2) and later, if AP SITE ID is not entered, INTRA SW OCDN must be "Y".

4.17 BCID 1 - 6

Description: Enter a Business Customer Identifier.

Software Release: 5E4(2) and later

Valid Entries: 1 - 65535

Data Rules:

The entry in this field must appear as an entry in the BCID field on an MSGP form.

An MLHG is assigned as a Message Service Center Group when a value for AP SITE ID or BCID is entered. When AP SITE ID is blank, and BCID is entered, a HUNT TYPE of "UCD", "REG", "HTC", or "ISAT" must be assigned on the corresponding MLHGFD form.

If an MLHG has been assigned as a Message Service Center Group, (indicated by entering a value for AP SITE ID or BCID[1-6]), then:

- if AP SITE ID is entered, a HUNT TYPE of "UCD", "REG", "MUPH", "PMHG" or "HTC" must be assigned on the corresponding MLHGFD form (5604 Record).

- if AP SITE ID is blank and BCID[1-6] is entered, a HUNT TYPE of "UCD", "REG", "HTC", "PMHG" or "ISAT" must be assigned on the corresponding MLHGFD form. For 5E7 and later if the HUNT TYPE is "ISAT", then on this MLHG form BCID SCRNING must be "Y" and CLIENT TN TYPE must be "OCDN".

4.18 DELAY RING

Description: Should power ringing of the MSC be delayed for 2 seconds? The DELAY RING field is used to indicate whether the power ringing of the MSC MLHG is to be delayed for 2 seconds so that the AP/VMS (Application Processor/Voice Messaging Service) has time to process the call history information sent from the switch. An entry of "N" indicates do not delay power ringing. The DELAY RING field was added in order to provide the capability of delaying the power ringing of the MSC MLHG.

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then AP SITE ID must be entered.

4.19 CPN OVRIDE PRVCY

Description: The CPN OVRIDE PRVCY field is used to indicate whether or not to override a privacy indication of the CPN (Calling Party Number) for both direct and forwarded calls and deliver the CPN in the CHI (Call History Information) message to the AP (Applications Processor) when this MSC (Message Service Center) is setup for ISVM (Inter-switch Voice Messaging). This field supports the Line Blocking Enhancement for ISVM secured feature, see Division 2, Section 4A240.

Software Release: 5E11 and later

Default: N

Valid Entries: Y, N

Data Rules:

For 5E11 and later, if the AP SITE ID(s) assigned on the MLHG form (5110-1 Record) have CPN OVRIDE PRVCY equal to "Y", then ISVM must be "Y" on the corresponding DSLAP form.

For 5E11 and later, if CPN OVRIDE PRVCY is "Y" then BCID SCRNING must be entered and BCID SCRNING must be "N" and INTRA SW DN must be "N".

ENHANCED 911

The following fields (Section 4.20) are used for the E911 (Enhanced 911) feature.

4.20 E911 PSAP

Description: Is this an E911 Public Safety Answering Point? This field applies to the secured feature, ISDN PSAP Support. For information on the feature, see Division 2, Section 4A114.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field can be "Y" only if the ISDN PSAP Support secured feature has been purchased; SFID 114 ACT must be set to "Y" on the SFSYS form (5713-1 Record).

When E911 PSAP is "Y", then:

- QFEATURE, MPTYPE, AP SITE ID, and BCID[1-6] cannot be entered;
- MLHG FEATURE must be defined on an MLHGFD form with HUNT TYPE set to "HTC", "REG", or "UCD" and with BEARER set to "VOICE"; and
- the MLHG cannot contain analog members; therefore, no analog members may be defined for this MLHG on the MLHLN form.

4.21 LNR HNT TN

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For Packet MLHGs the Recent Change field displays the optional Linear Hunt Telephone Number assigned to member 1 of the MLHG.

4.22 LNR COUNT

Description: This field is not used by ODA but appears on the form for consistency with Recent Change View 3.5. For Packet MLHGs the Recent Change field displays the number of Linear Hunt TNs assigned to members of the MLHG.

NUMBER PORTABILITY

This field group was added to support the Number Portability features.

4.23 PORTED

Description: The PORTED field is used to indicate whether the MLHG has been ported into this office via the LNP (Local Number Portability) feature. When this field is set to "Y", all members of the MLHG are considered ported for AMA access billing purposes.

This indicator is used by call processing to determine whether or not to generate an LNP BAF (Bellcore AMA Format) module for originating and terminating IXC access records.

Software Release: 5E11 and later

Default: N

Valid Entries: Y, N

4.24 NON COND TRIG

Description: The NON COND TRIG field is used to indicate whether or not a call to this DN requires a non-conditional query of the SCP (Service Control Point) prior to routing the call.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NON COND TRIG is "Y", then:

- the ACT field for SFID 216 must be set to "Y" on the SFSYS form, and if SFID 216 is set to "Y", SFID 174 must also be set to "Y"
- at least one TN must be specified in the LISTED TN, HIGHEST LISTED TN, or SUBTN fields
- SERHLN on the MLHLN form must be blank
- SERHLN on the DSLUSR form must be blank
- SERHLN on the SHTN form must be blank
- HUNT TYPE must be "HTC", "ISAT", "MUPH", "REG", or "UCD" on the MLHGFD form

For each MLHG form where NON COND TRIG is "Y", the corresponding MLHG Terminal 1 must have CLASS OF SERVICE and TERMINATING TREATMENT on the LCC form within the set listed below.

MLHG Terminal 1 can be found on either the MLHLN form or as CKT MLHG and CKT TERM on the DSLUSR form. To obtain the corresponding LCC form, match the LCC/RAX (for MLHLN) or CKT LCC/CKT RAX (for DSLUSR).

- Valid CLASS OF SERVICE
 - "10PTY", "2PTY", "4PFS", "4PSS", "5PTY", "8PSS", "ATND", "CHGCALL", "COIN", "HOTMOTL", "HOTPBX", "INDIV", "ISATND", "ISDN", "PBX", "SATSTLN", "TWOPTY", "4WINDIV"
- Valid TERMINATING TREATMENT
 - "INDIV", "INWATS", "MLHG", "PARTY"

4.25 CONTEXT ID

Description: This field is used to indicate whether or not a multiline hunt group is set to "NATIVE", "RESOLD", or "UNBUNDLED" for the AMA Recording for Resale and Unbundling feature. For more information on this feature, see Division 2, Section 4A321.

Software Release: 5E12 and later

Required Field.

Default:

For 5E12 and 5E13: N

For 5E14: NATIVE

Valid Entries:

I

Valid CONTEXT ID Entries		
Entry for 5E12, 5E13	Entry for 5E14 and later	Description
N	NATIVE	Line owned by ILEC/Switch Owner with no additional recording.
R	RESOLD	Unbundled Line with Service Provider and Timing Module
U	UNBUNDLED	Resale Line with Service Provider and NO Timing Module

Data Rules:

For 5E12 and later:

When the CONTEXT ID field is set to "R" or "RESOLD" or "U" or "UNBUNDLED" on the MLHG form, the ACT field for SFID 321 on the SFSYS form (5713-1 Record) must also be set to "Y".

When the CONTEXT ID field is set to "R" or "RESOLD" or "U" or "UNBUNDLED" on the MLHG form, there must be a MLHGFD form (5604 Record) with HUNT TYPE set to "HTC", "ISAT", "MUPH", "PMHG", "REG", or "UCD".

POSITION NUMBERS	SUBGROUP NUMBERS					
	1	2	3	4	5	6
1	1-6	7-12	13-17	18-22	23-27	28-31
2	32-37	38-43	44-48	49-53	54-58	59-63
3	64-69	70-75	76-80	81-85	86-90	91-95
4	96-101	102-107	108-112	113-117	118-122	123-127
5	128-133	134-139	140-144	145-149	150-154	155-159
6	160-165	166-171	172-176	177-181	182-186	187-191
7	192-197	198-203	204-208	209-213	214-218	219-223
8	224-229	230-235	236-240	241-245	246-250	251-255
9	256-261	262-267	268-272	273-277	278-282	283-287
10	288-293	294-299	300-304	305-309	310-314	315-319
11	320-325	326-331	332-336	337-341	342-346	347-351
12	352-357	358-363	364-368	369-373	374-378	379-383
13	384-389	390-395	396-400	401-405	406-410	411-415
14	416-421	422-427	428-432	433-437	438-442	443-447
15	448-453	454-459	460-464	465-469	470-474	475-479
16	480-485	486-491	492-496	497-501	502-506	507-511

Figure 1 MULTIPLE POSITION HUNT SUBGROUP MEMBERS

	5E2	5E3	5E4(2) and Later
LCC	For hunting terminals, use "MLHG".	Use "MLHG" or "I".	Same as 5E3
TT	For Inwats terminals, use "I". For non-hunt terminals, use "INDIV". LCCs can be mixed within any given MLHG.	Must be the same for all terminals.	
I	If all members of MLHG are I, set MLHG attribute I to "Y". If members of the MLHG are mixed (i.e., some are I and some	Set MLHG attribute I to "Y". (Note: all MLHG members must be I). Set MLHG attribute I to "N" when	Same as 5E3. Plus: I can be provided by assigning an LCC with with TT of I to an individual line on View 1.1

	are hunting terminals), set MLHG attribute I to "N".	members are not I. (Note: members cannot be mixed.) Use View 3.3 or Record 5114 to assign a multiple DN. Set attribute I to "Y".	or Record 5109. The Individual Line can be part of a Series Hunt.
O	Provide outdials by assigning to Terminals 3001 through 3999. Requires hunt type "R", "HTC", or "UCD." Requires LCC with TT equal to "INDIV".	Provide by assigning to Terminals 3001 through 3999. Requires hunt type of "R"	"HTC" or "UCD". Requires LCC with TT equal to "MLHG" or "INWATS".
N	Provide non-hunt with LCC TT of "INDIV".	Provide by setting N to "Y" on View 3.2 or Record 5111-1. Use View 3.3 or Record 5114 to assign a multiple DN. Set attribute N to "Y".	Same as 5E3.

Inwats Simulated Facilities Requirements: An SFG is required for special billing and/or to limit the number of calls to an Inwats number. Follow these steps:

1. Use Recent Change View 7.3 or Record 5609-3 to provision the SFG.
2. Use RC View 10.4 or Record 5304 to provision the MCRI.
3. Use RC View 7.4 or Record 5609-4 to associate the Inwats DN with the MCRI.

Figure 2 MLHG DIFFERENCES

mlhg	5ESS Switch
SCREEN 1 OF 3	OFFICE DATA ADMINISTRATION
(5110-1/2/3)	MULTILINE HUNT GROUP
*1. MLHG _____	13. REMARKS _____
#2. MLHG FEATURE _____	
3. LISTED TN _____	ATTENDANT TNs
4. HIGHEST LISTED TN _____	14. SUBTN1 _____
5. GROUP TRC N	15. SUBTN2 _____
#6. RAX _____	16. SUBTN3 _____
7. GROUP MAKE BUSY KEY _____	17. SUBTN4 _____
8. OVERFLOW PEG COUNT REG _____	18. SUBTN5 _____
9. LOCAL SM _____	19. SUBTN6 _____
10. SM SA ANNC N	ISAT ONLY TNs

11. FEATURE GROUP A N 20. SUBTN7 _____
12. FIRST PREEMPT MEMB _____ 21. SUBTN8 _____

```

mlhg                                5ESS Switch
SCREEN 2 OF 3                      OFFICE DATA ADMINISTRATION
(5110-1/2/3)                      MULTILINE HUNT GROUP

22. STATS 24HRS N                  27. BUSY MONITOR   N                MODEM POOLING
                                   28. ATT MLHG      _____          35. MPTYPE  _____
ISAT CONFIGURATION                29. RBV TGN       _____          36. MPPFX   _____
    CONFIG1  _____          30. PB GRP         _____          37. MAINT    _
    CONFIG2  _____          31. BCLID MLHG ID  ____          38. MPIDP    _
    CONFIG3  _____
    CONFIG4  _____

                                   QUEUING
                                   32. Q INDI HNT TNS  N
                                   33. QUEUING ALLOWED N
                                   34. OFEATURE

                                   RELEASE LINK
                                   39. RLT TYPE  NONE
                                   40. RLT FLASH N

```

```

mlhg                                5ESS Switch
SCREEN 3 OF 3                      OFFICE DATA ADMINISTRATION
(5110-1/2/3)                      MULTILINE HUNT GROUP

MESSAGE SERVICE CENTER            52. DELAY RING                N      59. CONTEXT ID N
MSC                               53. CPN OVRIDE PRVCY N

42. BCID SCRNING                 _
43. CLIENT TN TYPE              _____      ENHANCED 911
44. INTRA SW DN                 N      54. E911 PSAP N
45. AP SITE ID                  _____
46. BCID1                      _____      LNR HNT TN _
47. BCID2                      _____      LNR COUNT _
48. BCID3                      _____
49. BCID4                      _____      NUMBER PORTABILITY
50. BCID5                      _____      57. PORTED                N
51. BCID6                      _____      58. NON COND TRIG N

```

Figure 3 SAMPLE MLHG FORM 5E12 - 5E13 SOFTWARE RELEASES

```

mlhg                                5ESS Switch
SCREEN 1 OF 3                       OFFICE DATA ADMINISTRATION
(5110-1/2/3)                        MULTILINE HUNT GROUP

*1. MLHG                           _____ 13. REMARKS _____
#2. MLHG FEATURE                     _____
  3. LISTED TN                      ATTENDANT TNs

```

4. HIGHEST LISTED TN	_____	14. SUBTN1	_____
5. GROUP TRC	N	15. SUBTN2	_____
#6. RAX	___	16. SUBTN3	_____
7. GROUP MAKE BUSY KEY	_____	17. SUBTN4	_____
8. OVERFLOW PEG COUNT REG	_____	18. SUBTN5	_____
9. LOCAL SM	_____	19. SUBTN6	_____
10. SM SA ANNC	N	ISAT ONLY TNs	
11. FEATURE GROUP A	N	20. SUBTN7	_____
12. FIRST PREEMPT MEMB	_____	21. SUBTN8	_____

mlhg		5ESS Switch	
SCREEN 2 OF 3		OFFICE DATA ADMINISTRATION	
(5110-1/2/3)		MULTILINE HUNT GROUP	
22. STATS 24HRS N	27. BUSY MONITOR N	MODEM POOLING	
ISAT CONFIGURATION	28. ATT MLHG _____	35. MPTYPE _____	
CONFIG1 _____	29. RBV TGN _____	36. MPPFX _____	
CONFIG2 _____	30. PB GRP _____	37. MAINT _	
CONFIG3 _____	31. BCLID MLHG ID _	38. MPIDP _	
CONFIG4 _____	QUEUING		RELEASE LINK
	32. Q INDI HNT TNS N	39. RLT TYPE NONE	
	33. QUEUING ALLOWED N	40. RLT FLASH N	
	34. QFEATURE _____		

mlhg		5ESS Switch	
SCREEN 3 OF 3		OFFICE DATA ADMINISTRATION	
(5110-1/2/3)		MULTILINE HUNT GROUP	
MESSAGE SERVICE CENTER	52. DELAY RING N	59. CONTEXT ID NATIVE	
MSC _	53. CPN OVRIDE PRVCY N		
42. BCID SCRNING _	ENHANCED 911		
43. CLIENT TN TYPE _____	54. E911 PSAP N		
44. INTRA SW DN N			
45. AP SITE ID _____			
46. BCID1 _____	LNR HNT TN _		
47. BCID2 _____	LNR COUNT _		
48. BCID3 _____			
49. BCID4 _____	NUMBER PORTABILITY		
50. BCID5 _____	57. PORTED-IN AMA N		
51. BCID6 _____	58. NON COND TRIG N		

Figure 4 SAMPLE MLHG FORM 5E14 SOFTWARE RELEASES

mlhg		5ESS Switch	
SCREEN 1 OF 3		OFFICE DATA ADMINISTRATION	
(5110-1/2/3)		MULTILINE HUNT GROUP	

*1. MLHG	_____	13. REMARKS	_____
#2. MLHG FEATURE	_____		
3. LISTED TN	_____	ATTENDANT TNs	
4. HIGHEST LISTED TN	_____	14. SUBTN1	_____
5. GROUP TRC	N	15. SUBTN2	_____
#6. RAX	_____	16. SUBTN3	_____
7. GROUP MAKE BUSY KEY	_____	17. SUBTN4	_____
8. OVERFLOW PEG COUNT REG	_____	18. SUBTN5	_____
9. LOCAL SM	_____	19. SUBTN6	_____
10. SM SA ANNC	N	ISAT ONLY TNs	
11. FEATURE GROUP A	N	20. SUBTN7	_____
12. FIRST PREEMPT MEMB	_____	21. SUBTN8	_____

mlhg	5ESS Switch	
SCREEN 2 OF 3	OFFICE DATA ADMINISTRATION	
(5110-1/2/3)	MULTILINE HUNT GROUP	
22. STATS 24HRS N	27. BUSY MONITOR N	MODEM POOLING
ISAT CONFIGURATION	28. ATT MLHG _____	35. MPTYPE _____
CONFIG1 _____	29. RBV TGN _____	36. MPPFX _____
CONFIG2 _____	30. PB GRP _____	37. MAINT _
CONFIG3 _____	31. BCLID MLHG ID _	38. MPIDP _
CONFIG4 _____	QUEUING	RELEASE LINK
	32. Q INDI HNT TNS N	39. RLT TYPE NONE
	33. QUEUING ALLOWED N	40. RLT FLASH N
	34. QFEATURE _____	

mlhg	5ESS Switch	
SCREEN 3 OF 3	OFFICE DATA ADMINISTRATION	
(5110-1/2/3)	MULTILINE HUNT GROUP	
MESSAGE SERVICE CENTER	52. DELAY RING N	59. CONTEXT ID NATIVE
MSC _	53. CPN OVRIDE PRVCY N	
42. BCID SCRNING _	ENHANCED 911	
43. CLIENT TN TYPE _____	54. E911 PSAP N	
44. INTRA SW DN N		
45. AP SITE ID _____		
46. BCID1 _____	LNR HNT TN _	
47. BCID2 _____	LNR COUNT _	
48. BCID3 _____		
49. BCID4 _____	NUMBER PORTABILITY	
50. BCID5 _____	57. PORTED-IN AMA N	
51. BCID6 _____	58. NON COND TRIG N	

Figure 5 SAMPLE MLHG FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 1K: 5111-1/2/3 RECORD MULTI-LINE HUNT GROUP TERMINAL RECORD - MLHLN

1. GENERAL

The 5111-1/2/3 Record, available with 5E2 and later Software Releases, defines the individual Terminal Numbers assigned to a particular MLHG. Each MLHG/Terminal Number must be assigned an equipment number and specific options and features. Every MLHG Number assigned on the MLHLN form must be defined on the MLHG form (5110-1/2/3 Record).

MLHLN contains Terminal Numbers that are associated with a given MLHG. The 5111-2/3 Record defines supplemental information that is not included on the 5111-1 Record.

1.1 Line Assignments

The assignment of lines to an MLHG is normally determined by the following:

- Non-PBX Class Of Service customers with nine or more lines.
- PBX Class Of Service customers with six or more lines.
- PBX Class Of Service customers with special features, e.g., End Hunt or Make Busy Keys.
- Any Class Of Service customers requiring Circle Hunt, Uniform Call Distribution Hunting, or Multiposition Hunting.
- INWATS.

1.2 LEN/SLEN Assignments

Every MLHG Terminal Number must be assigned a LEN or SLEN. For 5E3 and later, the RAX/LCC combination must be defined on an LCC form (5306 Record) with a TERMINATING TREATMENT of "MLHG" or "INWATS".

1.3 Billing

Lines within an MLHG can be billed to a Group Billing Number, or can be individually billed by Terminal Number.

1.4 Outdial Terminals

Outdial Terminals can be entered on the MLHG form with a terminal number in the range 3001 - 3999. Outdial Terminals are only allowed in Hunt Groups with a HUNT TYPE of "REG", "UCD" or "HTC" as indicated on an MLHGFD form (5604 Record).

1.5 Ground-Start Lines

Most customer lines are loop-start lines that generate an origination by closing the path between the tip and ring at the station set (forming a loop). Scanning is done at the Central Office by applying a voltage between the tip and ring and sensing the loop current flow produced by the customer line origination.

Ground-Start lines (e.g., coin-first coin phones and PBX-CO trunks) generate an origination by grounding the

ring conductor at the station set. Scanning is done at the Central Office by applying a voltage with respect to ground on the ring conductor and sensing the current flow in the ring conductor produced by the customer line origination. Since certain PBXs interpret a ground on the tip conductor to mean something else (disconnect, etc.), the tip conductor at the Central Office is disconnected during scanning on Ground-Start lines. The tip conductor is disconnected under software control in the 5ESS Switch. Thus, any Line Equipment Number may be assigned as Ground Start. Ground-Start should be entered as an equipment option in the GST field.

1.6 Essential Service Protection

TNs that require Essential Service Protection, which is part of the Overload Control Capability, must be assigned to a Line Equipment Number designated as Essential. When a 5ESS Switch is in an overload condition and the Overload Control is turned on, then all lines designated Essential Lines have the Essential Service Protection feature and would receive priority origination scanning.

There is no limit on the quantity of LENS or SLENS that can be assigned as Essential Lines except for the following restriction:

To make sure there is no internal blocking on origination scanning, there should be only one LEN assigned with the EL field equal to Y from a group of four LENS that share the same first seven digits of their LEN.

Example:

External LEN breakdown					
SM	LU	CONC	SWG	SW	LEV
1-192	0-7	0-9	0-1	0-7	0-3

There are four level values 0 through 3 for a given 7-digit value of SM/LU/CONC/ SWG/SW. Only one of the four LEVs should have the EL field equal to "Y".

LEN	00	1	3	0	0	4	0
LEN	00	1	3	0	0	4	1
LEN	00	1	3	0	0	4	2
LEN	00	1	3	0	0	4	3

It is recommended that Essential Lines be distributed evenly across the Line Equipment Numbers. Care should be given to assign to an Essential Line only those customers that actually require Essential Service Protection.

1.7 Recent Change Records

For 5E7 and 5E8, the corresponding Recent Change Office records for this form are 5111 and 5111A. The Recent Change 5111 Record defines the individual Terminal Numbers assigned to a particular MLHG with a terminal number in the range of 1 - 2015. The Recent Change 5111A Record defines the Outdial Terminals that can be entered on the MLHG form with a terminal number in the range 3001 - 3999. The ODA 5111 Record defines the 1 - 2015 and 3001 - 3999 terminal numbers.

1.8 Recent Change View

The corresponding Recent Change View for this form is 3.2 for 5E2 - 5E6, or 1.6 for 5E7 and later.

2. FORM ENTRIES - 5111-1 Record

2.1 BASE AND CONTROL, ESS UNIT

Enter the 6-character Base and Control Number, Office Name and MLHG number.

2.2 MEMBER INFORMATION

The information contained in these columns is data that is unique to each Terminal Number in the MLHG. This form contains entries for individual terminals of the group. Common group information is entered on the MLHG form.

2.3 *MLHG

Description: The Multi-Line Hunt Group Number.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

Data Rules:

Entries exceeding 999 are not allowed until positions 1 through 999 have been assigned.

For 5E5 and later, if both this field and the ATT MLHG field are entered, the MLHG must be defined in the MLHG field of an MLHG form such that the MLHG FEATURE is defined on an MLHGFD form that is neither "ISAT" nor "MUPH".

For 5E9(1) and later, when Multiline Hunt Terminals defined on MLHLN forms where MEMB equals 1, are assigned a Call Forwarding Variable Feature or a Call Forwarding Variable Data Feature on the MLHLNFA form, the associated MLHG must be assigned a MLHG FEATURE which is defined on a MLHGFD form that has CF VARIABLE set to "Y".

For 5E12 and later, when the MLHG/TERM(S) on the MLHLN form has an OE Type of "A" or "G", the CLASS OF SERVICE on the corresponding LCC form must not equal "4WINDIV", "TAOPER" or "XDB".

2.4 *TERM

Description: The MLHG Terminal Number.

Valid Entries: 1 - 2015 or 3001 - 3999 (Outdial Terminals Only)

Data Rules:

With 5E4(2) and later, Outdial Terminals cannot be assigned to MLHGs where the HUNT TYPE on the MLHGFD form (5604 Record) is "MUPH".

Terminal Number 1, the main member of the group, must always be defined for each MLHG. Entries exceeding 999 are not allowed until positions 1 through 999 have been assigned.

Because of memory constraints, it is recommended that for 5E2 and later that Terminal Number entries exceeding 32 are not assigned until positions 1 through 32 have been assigned. This recommendation doesn't apply when the HUNT TYPE is "MUPH" on the MLHGFD form.

MLHG members defined on the MLHLN form with an LCC/RAX combination must match an LCC/RAX combination with an associated SERVICE CLASS of "INDIV", "HOTMOTL", "HOTPBX", "PBX", "B911", "CALLBK" for 5E6 or "LTPCLBK" for 5E7 and later, "ATND", "4WINDIV", "MODEM" on the LCC form.

If a TN or MLHG/TERM defined on the LINE or MLHLN form with an OE TYPE ("C", "E", "G", "L", or "S") and

NUMBER combination, it cannot be duplicated between Individual MFR or non-MFR lines (PTY is "I" and MFRI is "N" or PTY is 1-9, 0 and MFRI is "Y") or duplicated between an Individual line (MFR or non-MFR) and a multi-party line (PTY set to 1-9, 0, "T", "R", and MFRI is "N").

For 5E9(1) and later, when MLHG/TERMs defined on the MLHLN form have a TN specified and an LCC/RAX combination defined on the LCC form with a TERMINATING TREATMENT of "ASIRA", the following MLHLN form fields must be set:

- OE TYPE/NUMER must be null
- DNY BV must be "N"
- SHARED must be "N"

For 5E9(1) and later, when Multiline Hunt Group Terminals defined on MLHLN forms where TERM equals 1, are assigned a Call Forwarding Busy Feature, Call Forwarding Data Busy Feature, Call Forwarding Precedence Busy Feature, or Call Forward Precedence Calls When Busy Feature on the MLHLNFA form, the associated MLHG must be assigned a MLHG FEATURE which is defined on a MLHGFD form that has CF BUSY set to "Y".

For 5E12 and later, if the MLHG/TERMs on the MLHLN form have SERHLN entered and TN entered, the equivalent 10-digit SERHLN cannot equal the equivalent 10-digit TN on the same MLHLN form.

2.5 #RAX

Description: The Rate Center to be used for routing and charging.

Valid Entries:

- For 5E14 and earlier: 1 - 99
- For 5E15 and later: 1 - 999

Data Rules:

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

2.6 #LCC

Description: The Line Class Code indicating the class of service for a Terminal Number.

Valid Entries: 3 alphanumeric characters

Data Rules:

A modem that is a member of a Modem Pool group must have a LINE CLASS CODE with a CLASS OF SERVICE of "MODEM" and a TERMINATING TREATMENT of "INDIV" defined on an LCC form.

When CLASS OF SERVICE is "MODEM" on the LCC form, the following fields on this form must be "N": TST LINE, GNDREF, LNEQ, and SHARED.

For 5E7 and 5E8, when the MLHG member is assigned an LCC/RAX combination defined on an LCC form where the Service Class is "CALLBK", the following fields on this form must be set as specified:

- OE TYPE must be:
 - "C" or "L";

- SUSO must be "Y"; and
- TTC must be "Y".

For 5E9(1) and later, when the MLHG member is assigned an LCC/RAX combination defined on an LCC form where the Service Class is "LTPCLBCK", the following fields on this form must be set as specified:

- OE TYPE must be:
"C", "E" (5E11 and later), or "L";
- SUSO (Denied Origination) must be "Y";
- TTC must be "Y";
- DNY ROH must be "N";
- DTLBILL must be "N"; and
- COMPL must be "N".

2.7 OE TYPE

Description: A composite line type consisting of all the Equipment Types and Numbers (LEN/SLEN/TEN/DEN/NEN, etc.). This field is necessary for the 4-wire Analog Lines (TEN), 4-Wire Lines on DNU-S (NEN) as of 5E11 and later and 4-wire Digital Lines (DEN) fields added to the MLHLN form with the addition of the DSN (Defense Switched Network), and 4-wire Lines on OIU (Optical Interface Unit) as of 5E16..

Software Release: 5E3 and later

Valid Entries:

Valid OE TYPE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TN associated with a 10-digit INEN for TR-303 on DNU-S.
C	TN associated with an 8-digit ISLU (ISDN Line Unit).
D	TN associated with an 8-digit, 4-wire DEN (Digital Equipment Number). Software Release: 5E15 and later. The DEN was expanded to 10-digits.
E	Software Release: 5E11 and later: TN associated with an 12-digit AIU (Access Interface Unit).
G	Software Release: 5E8 and later. TN associated with a GEN (GAMA IDCU equipment number); see NUMBER field for details.
L	TN associated with an 8-digit analog LEN (Line Equipment Number).
M	Software Release: 5E8 - 5E9(2). TN associated with an 8-digit IDCU MEN (IDCU equipment number).
N	Software Release: 5E12 and later. TN associated with a 10-digit, 4-Wire Line on DNU-S NEN (Network Equipment Number). Software Release: 5E13 and later. The VT (Virtual Tributary) field defined on the EQVT form (5858 Record) was split which resulted in an 11-digit NEN.
O	Software Release: 5E16 and later.

	OIUEN (Optical Interface Unit Equipment Number)
S	TN associated with a 7-digit SLEN (SLC-96) Equipment Number. Software Release: 5E15 and later. The SLEN was expanded to 10-digits.
T	TN associated with a 7-digit, 4-wire analog TEN (Trunk Equipment Number).

Data Rules:

If CLASS OF SERVICE on the associated LCC form is "B911", OE TYPE must be "C", "E", "L", or "S".

When "C", "E", "L", or "S" is entered, CLASS OF SERVICE on the associated LCC form cannot be "4WINDIV", "ISATND", "ISDN", "TAOPER" or "XDB".

For 5E7 and later, if OE TYPE is equal to "L", and EL (Essential Line for the Essential Service Protection feature) is set to "Y", only one unique NUMBER in a group of four NUMBER(s) that share a common SM/LU/GRID/SWG/SW value can have EL set to "Y".

For 5E8 and later:

Data rules are listed under the specific enumeration heading as follows:

D or T:

If OE TYPE is "D" or "T", the SM referenced in the OE NUMBER cannot be configured as "BASIC". The SM's corresponding EQIM form must have CONFIGURATION set to "STANDARD" or "LOADED" because a Basic SM cannot be assigned 4-wire lines. For 5E9(2) and later, refer to the table of Configurations for Facilities and Application in Division 8, Section 2 for correct configurations for OE TYPE "D", "N" or "T".

M or G:

If "G" or "M" is entered, the MLHG/MEMB is assigned to IDCU equipment. If the RT INTERFACE is set to "TR008" on the corresponding RTERM form (5174 Record), then the last digits of the OE NUMBER must correspond to the Channel Unit position (i.e., CU XX/YY) defined on the RTERM form. The forms correspond when the OE NUMBER corresponds to the designated fields on the RTERM form. (See format for OE NUMBERS of TYPE "M" and "G".) Note that the last two digits of the OE NUMBER are determined by the CU XX/YY value (where XX is an odd number range of 01-95 and YY is an even number of XX + 1). Both the values in the pair are assignable if CU XX/YY TYPE on the RTERM form is set to

"DFXS"(5E9(2) and later)

"FSR"

"MP"

"SF1" (5E9(1))

"SP"

"SPOTS"

"SSV00"

"SSV10"

Only the lower (odd) numbered value is assignable if the CU XX/YY TYPE set to

"COIN"

"FXS"

"FXSLS"

For example:

COMPARISON OF RTERM CU WITH OE NUMBER		
LAST DIGITS OF OE NUMBER FOR		
RTERM CUXY/YY	TYPE "M"	TYPE "G"

CU0102	01, 02	0001, 0002
CU0304	03, 04	0003, 0004
CU0506	05, 06	0005, 0006
CU0708	07, 08	0007, 0008
.	.	.
.	.	.
CU9394	93, 94	0093, 0094
CU9596	95, 96	0095, 0096

NOTE: "SF1" applies to 5E9(1) and "DFXS" applies to 5E9(2) and later; both indicate Dual FX Plugs.

If "G" or "M" is entered, then the SM, IDCU, and RT values of the NUMBER field must be defined on an RTERM form; and if the "TR008" is entered in the RT INTERFACE field on the RTERM form, then the GEN or MEN LINE NO values must be assigned to an appropriate IDCU DIGRP with its STATUS set to "O" for operational. The following values must correspond.

LAST DIGITS OF OE NUMBER FOR		DIGRP	DIGRP STATUS
TYPE "M"	TYPE "G"		
01-24	0001-0024	A	EQSTAT A = "O"
25-48	0025-0048	B	EQSTAT B = "O"
49-72	0049-0072	C	EQSTAT C = "O"
73-96	0073-0096	D	EQSTAT D = "O"

If "G" or "M" is entered, and the MLHG is assigned to IDCU equipment defined on the RTERM form with "TR008" entered in the RT INTERFACE field and a Channel Unit Type set to "SP" or "FXSLS", then the value of the GST (Ground Start) field on this form must be "N".

If "G" or "M" is entered and "TR008" is entered in the RT INTERFACE field on the corresponding RTERM form, the MLHG must have the proper RTERM Channel Unit to LCC-Service Class correspondence. The LCC/RAX combination assigned on the MLHLN form must be defined on the LCC form with an associated CLASS OF SERVICE that matches the CUXX/YY type on the corresponding RTERM form. Refer to the following Table for the required correspondence:

LCC TO RTERM CORRESPONDENCE	
LCC CLASS OF SERVICE	RTERM CU XX/YY
4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
5PTY	FSR, SSV00, SSV10
B911	SP, SPOTS, SSV00, SSV10
CHGCALL	SP, SPOTS, SSV00, SSV10
COIN	COIN, SSV00, SSV10
HOTMOTL	SPOTS, FXSLS, SSV00, SSV10 SF1 (5E9(1) only) DFXS (5E9(2) and later)
HOTPBX	FXS, FSR, SPOTS, SSV00, SSV10 SF1 (5E9(1) only) DFXS (5E9(2) and later)
INDIV	SP, MP, SPOTS, FSR, FXSLS, SSV00, SSV10 SF1 (5E9(1) only) DFXS (5E9(2) and later)
PBX	FXS, SPOTS, FSR, SSV00, SSV10 SF1 (5E9(1) only) DFXS (5E9(2) and later)
TWOPTY	SP, MP, SSV00, SSV10

NOTE: SF1 applies to 5E9(1) and DFXS applies to 5E9(2) and later; both indicate Dual FX Plugs.

When MLHG are being associated with a Channel Unit type equal to "SF1", or "DFXS", and the CLASS OF

SERVICE on the associated LCC form is "INDIV", the GST (Ground Start) on the MLHLN form must be "N".

S:

If "S" is entered and the MLHG is defined on the SLCCU form as being associated with a Channel Unit type equal to "FXSLS", the value of the GST (Ground Start) field on the MLHLN form must be "N".

For 5E7 and later, if "S" is entered, the MLHG is assigned to SLEN equipment and must have the proper SLC Channel Unit to LCC-Service Class correspondence. The LCC/RAX combination assigned on the MLHLN form must be defined on the LCC form with an associated CLASS OF SERVICE that matches the CU TYPE on the SLCCU input form. Refer to the following table for the required correspondence:

LCC TO SLCCU CORRESPONDENCE	
LCC CLASS OF SERVICE	SLCCU CU TYPE
4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
5PTY	FSR, SSV00, SSV10
ATND	FXS, SP, SPOTS, DFXS
B911	SP, SPOTS, SSV00, SSV10
CHGCALL	SP, SPOTS, SSV00, SSV10
COIN	COIN, SSV00, SSV10
HOTMOTL	SPOTS, FXSLS, SSV00, SSV10, DFXS
HOTPBX	FXS, FSR, SPOTS, SSV00, SSV10, DFXS
INDIV	COIN, SP, MP, SPOTS, FSR, FXSLS, SSV00, SSV10, DFXS
PBX	COIN, FXS, SPOTS, FSR, SSV00, SSV10, DFXS
TWOPTY	SP, MP, SSV00, SSV10

For 5E8 and later, if "S" is entered, and COIN is defined on the corresponding SLCCU form (5107 Record), and, in addition, either "INDIV" or "PBX" is entered in the CLASS OF SERVICE field on the corresponding LCC form, then this Channel Unit Type/CLASS OF SERVICE combination requires CLSS set to "Y" on this form.

For 5E9(1) and later, if "S" is entered and "DFXS" is entered as a CU TYPE on the corresponding SLCCU form, and in addition, the CLASS OF SERVICE on the associated LCC form is "INDIV", then GST (Ground Start) on this form must be "N".

E:

If "E" is entered, the associated NUMBER must be specified in the AIU format and TYPE on the EQAIUP form (5746 Record) must be "AIZLP" or "AICLP".

N or O:

For 5E13 and later, if "N" is entered, the OE NUMBER must be defined on the EQVT form, VT EQSTAT and DS1S EQSTAT must be "O" and APPLICATION TYPE must be "TRUNK". The associated EQVT form may be found by matching OE NUMBER[1,3] with EQVT SM, OE NUMBER[4] with EQVT DNUS, OE NUMBER[5] with EQVT DATA GROUP, OE NUMBER[6] with EQVT STE, OE NUMBER[7] with EQVT STS, OE NUMBER[8] with EQVT VT GROUP, and OE NUMBER[9] with EQVT VT MEMBER.

2.8 NUMBER

Description: Enter the OE NUMBER.

Software Release: 5E3 and later

Valid Entries: If OE TYPE is "L", the NUMBER field is the Line Equipment Number and consists of:

OE NUMBER, TYPE L			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
		XXX	000 - 042

			(5E9(2) and later)
Concentrator	CONC	X	0 - 9
Switch Group	SWG	X	0 - 1
Switch	SW	X	0 - 7
Level	LEV	X	0 - 3

If OE TYPE is "S", this is SLC-96 Equipment Number and consists of:

OE NUMBER, TYPE S			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Carrier Line Unit	DCLU	X	0 - 7
		XX	0 - 15 (5E15 and later)
Remote Terminal	RT	XX	1 - 32
Line	LINE	XX	1 - 96

For the 5E3 Software Release, the valid range for RT is 1 to 6.

Additionally, the RT value defined on the MLHLN form must correspond to an RT assigned on the SLCRT form.

If OE TYPE is "D", this is the 4-wire Digital Equipment Number.

OE NUMBER, TYPE D			
Software Release: 5E5 and later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Line Trunk Unit	DLTU	X	0 - 5
		XX	0 - 11 (5E15 and later)
Digital Facility Interface	DFI	XX	1 - 10
Digital Channel	DCHAN	XX	1 - 48

If OE TYPE is "N", this is the 4-wire Line on DNU-S. The DNU-S Networking Equipment Number consists of:

OE NUMBER, TYPE N (5E12 and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Networking Unit - SONET	DNU-S	X	0 - 7
Data Group	DG	X	0 - 1
Synchronous Transport Signal	STS	X	0 - 5
Virtual Tributary	VT	XX	01 - 28
Digital Signal Level 0	DS0	XX	01 - 24

When the DCHAN entered is greater than 24, the FAC IND on the EQDUP form must be 3.

OE NUMBER, TYPE N (5E13 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Networking Unit - SONET	DNU-S	X	0 - 7
Data Group	DG	X	0 - 1
SONET Equipment Termination	STE	X	1 - 6
Synchronous Transport	STS		1

Signal		X	
Virtual Tributary Group	VTG	X	1 - 7
Virtual Tributary Member	VTM	X	1 - 4
Digital Signal Level 0	DS0	XX	01 - 24

If OE TYPE is "T", this 4-wire analog Trunk Equipment Number consists of:

OE NUMBER, TYPE T			
Software Release: 5E5 and later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Trunk Unit	TU	XX	0 - 7
Service Group	SVG	X	0 - 1
Pack	PACK	X	0 - 7
Circuit	CKT	X	0 - 3

If OE TYPE is "C", this ISLU Line Card Equipment Number consists of:

OE NUMBER, TYPE C			
Software Release: 5E5 and later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
Line Group Controller	LGC	XX	00 - 15
Line Card	LC	XX	00 - 31

For a Modem Pool member, the modem and terminal adaptor must be on the same SM. Therefore, the SM entered in this field, which is for the analog port for a modem, must be the same as the SM entered in the LCEN field, which is for the digital port for the terminal adaptor mate, on the DSMLHLN form.

If OE TYPE is "M", this IDCU Equipment Number consists of:

OE NUMBER, TYPE M			
Software Release: 5E8 - 5E9(2)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Integrated Digital Carrier Unit	IDCU	X	0 - 7
Remote Terminal	RT	XX	01 - 31
Line	LINE	XX	01 - 99

If OE TYPE is "G", this IDCU Equipment Number consists of:

OE NUMBER, TYPE G			
Software Release: 5E9(2) and earlier			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Integrated Digital Carrier Line Unit	IDCU	X	0 - 7
Remote Terminal	RT	XX	1 - 31
Line	LINE	XXXX	0001 - 2048

OE NUMBER, TYPE G			
Software Release: 5E10 and Later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Integrated Digital Carrier Line Unit	IDCU	XX	00 - 42
Remote Terminal	RT	XX	1 - 31
Line	LINE	XXXX	0001 - 2048

If OE TYPE is "E", this AIU Equipment Number consists of:

OE NUMBER, TYPE E			
Software Release: 5E11 and Later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	AIU	XXX	000 - 042
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 31
			Coin
			00 - 15

For 5E12 and later:

If OE is "A", the INEN Equipment Number consists of:

TR303 on DNU-S, Type A			
Software Release: 5E12 and Later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Line	LINE	XXXX	0001-2048

For 5E16 and later:

When OE is "O", the OIUEN Equipment Number consists of:

OE NUMBER, TYPE "O" - (5E16 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
Protection Group	PG	X	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container Member	LVC MEM	X	1 - 4
Channel	CH	XX	01 - 24

When OE TYPE is "D", "N", "O", or "T", MFRI, FGA, BUSY MONITOR, and ANI7 must be "N" on this form; SERHLN, ATT MLHG, and RBV TGN must be blank.

When OE TYPE is "D", "N", "O", or "T", PTY must be "I".

2.9 TN

Description: A unique Telephone MLHG/Terminal Number

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9
and X is 0 - 9

Data Rules:

If the MLHG's HUNT TYPE, defined on the MLHGFD form (5604 Record), is "REG" for regular, or "HTC" for Circle Hunt, then the TN field is a required entry for Terminal Number 1 and must equal the entry in LISTED

TN on the MLHG form.

Non-Hunt Terminals including Outdial Terminals may or may not have a TN. If no TN is assigned, it is not possible to terminate to this member.

If the member is the modem component of a Modem Pool member (as opposed to the terminal adaptor component), then this is a non-hunt number. This non-hunt number is used solely for Terminal Maintenance on Modem Pool members.

The TN field must be entered and must also be defined on the TLWS form as LOCAL TALK & MONITOR LINE, if MLHLN form entry has an LCC/RAX combination that appears on the LCC form with a Service Class value of "CALLBK" for 5E6 or "LTPCLBCK" for 5E7 and later.

2.10 PTY

Description: A party value that determines the ringing frequency of the customer's telephone. The MFR (Multi-Frequency Ringing) feature allows MLHG members to maintain a Class Of Service of "INDIV", "PBX" or "HOTPBX".

Required Field.

Default: I

Valid Entries:

Valid PTY Entries	
Entry	Definition
T	Tip
R	Ring
I	Individual Line (non-MFR)
0 - 9	Individual MFR line (MRFI must be "Y")

Data Rules:

With 5E3 and later, if the CLASS OF SERVICE on the LCC form is "4WINDIV", then the PTY value must be "I". PTY also must be "I" if OETYPE is "D", "N" or "T".

For 5E10 and later, if PTY is blank, PSLIM must be "Y".

2.11 MFRI

Description: Multi-Frequency Ringing-Individual provides varied ringing frequency over five frequencies and three frequency classes, allowing for either bridged or divided ringing. See Figure 2.

Default: N

Valid Entries: Y, N

Data Rules:

An entry of "Y" is required for MFR type lines. When MFRI is "Y", then PTY must equal a value of 0 - 9 corresponding to the correct frequency ringing; and OE TYPE must be "C", "S", or "L".

When MFRI is "Y" and OE TYPE is "G", PTY must be 1 through 5.

When MFRI is "Y" and OE TYPE is "S", PTY value must be between 1 and 4.

Also, all analog lines with MFRI equal to "Y" must have a CLASS OF SERVICE of "INDIV", "PBX" or "HOTPBX" on the LCC form. However, all SLC-96 lines (OE TYPE is "S") with MFRI equal to "Y" must have a

CLASS OF SERVICE of "INDIV", only. Furthermore, SLC-96 lines should not be assigned tip-side MFR party values (PTY must be 1 - 4, only).

For 5E10, when MFRI is "Y", OE Type must be "C", "L", "S", "M" or "G".

For 5E11, when MFRI is "Y", OE TYPE must be "C", "E", "G", "L" or "S".

For 5E12 and later, when MFRI is "Y", OE TYPE must be "A", "C", "E", "G", "L" or "S".

For 5E10 and later, when Multiline Hunt Group Terminal(s) on the MLHLN form have the MFRI field set to "Y" which identifies an MFR type of line, all MFR lines must have a NUMBER on the MLHLN form, where OE TYPE is equal to "A", "C", "G", "L" or "S", as defined on the Switching Module with MFR Frequency Class equal to "HAR", "DEC" or "SYN" on the IMINFO Record.

2.12 CIDIAL

Description: The Carrier Interconnect Dialing Permissions.

Default: ALLOW

Valid Entries:

Valid CIDIAL Entries	
Entry	Definition
ALLOW	The customer can dial an FGD CAC (Carrier Access Code) or use a PIC (Pre-subscribed InterLATA Carrier) Identification Number, if one is assigned, for Carrier Interconnect calls.
DENY	The customer cannot dial an FGD CAC. To make CI calls, the line must be assigned a PIC.
REQ	The customer must dial an FGD CAC for Carrier Interconnect calls.
TALLOW	Same as "ALLOW", but used for a CI test line only.
TDENY	Same as "DENY", but used for a CI test line only.
TREQ	Same as "REQ", but used for CI test lines only.

Data Rules:

This entry is valid only for ENTYPE of "LEN" or "SLC" and with 5E3 and later, with OE TYPE of "L" or "S". When this field is blank, the CIDIAL entry automatically assigns the ALLOW value.

For 5E9(1) and later, if "REQ" or "TREQ" are entered, then PTC must not be entered.

2.13 PIC

Description: The Pre-subscribed InterLATA Carrier Identification Number.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

When CIDIAL is "REQ" or "TREQ" (lines that require an FGD CAC), leave this field blank. When CIDIAL is "DENY" or "TDENY" (lines that prohibit an FGD CAC), PIC is a required entry.

For 5E8 and later, PIC must equal CARRIER ID on an ICF form, with the ICF form's FEAT GRP equal to "D".

2.14 PTC

Description: Enter the PTC (Presubscribed IntraLATA Toll Carrier) identification number. The PTC field was added to support the ICLATA (InterLATA Carrier's IntraLATA) Secured Feature. For more information on the

ICLATA feature, see Division 2, Section 4A149.

Software Release: 5E9(1) and later.
Valid Entries: 0 - 9999 or leave blank

Data Rules:

When the PTC field is used, an SFSYS form must exist with the ACT field for SFID 149 field set to "Y".

2.15 PLC

Description: Enter the PLC (Presubscribed Local Carrier) code. The PLC field supports the Alternate Local Service Provider Routing feature. For more information on the Alternate Local Service Provider Routing feature, see Division 2, Section 4A269.

Software Release: 5E12 and later.
Valid Entries: Blank, or 0 - 9999.

Data Rules:

The PLC field on the MLHLN form must be defined as CARRIER ID on the ICF form with FEAT GRP equal to "D".

2.16 UNBUNDLED

Description: Has this line been unbundled from the LEC?
Software Release: 5E12 and later
Default Value: N
Valid Entries: Y, N

Data Rules:

If UNBUNDLED is "Y", then PLC must be entered.

2.17 CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later
Default: 0
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

ORIGINATION FEATURES

The following fields (Section 2.18 - Section 2.29) determine the Origination Features and options associated with an MLHG TN.

2.18 TTC

Description: Touch-Tone requirements.
Default: N
Valid Entries: Y, N

2.19 BRCS

Description: Are specific Business and Residence Custom Services assigned to this line?

Default: N

Valid Entries: Y, N

Data Rules:

An entry of "Y" is required if the MLHG/TERM or TN is assigned one or more BRCS on the MLHLNFA form.

The assigned features are given unique Feature Names on the MLHLNFA form (5113 Record).

For 5E6 -5E8, if this line is dedicated to ASP (Advanced Services Platform; previously PVN, Private Virtual Network) via the default ASP DAS by having DIGIT ANALYSIS SELECTOR on the LCC form (5306 Record) equal to PVN DAS on the OFCOPT form (5509 Record), then BRCS must be "N". If the line is dedicated to ASP via a virtual ASP DAS by having DIGIT ANALYSIS SELECTOR on the LCC form equal to a DAS whose functionality is similar to PVN DAS on the OFCOPT form, then BRCS should be "N". See the ASP DIALING PLAN section of the ASP Feature Description (Division 2, Sections 4A51 and 4A126) for further details on the dangers of assigning BRCS features to lines dedicated to ASP services.

2.20 EL

Description: Will Essential Service Protection be assigned to a LEN or SLEN? This option is part of the Overload Control Capability. Essential Service Protection provides origination priority when the office is in an overload state and the Overload Control Program is activated. Essential Service can be provided for TNs assigned to a LEN, SLEN, or (R)ISLU-Z card designated as Essential.

No special dedicated equipment arrangement is required for SLC-96 (SLENs) or (R)ISLU-Z lines. Lines assigned to LENs have specific dedicated equipment arrangements to prevent blocking when lines assigned essential service attempt to originate calls.

It is recommended that at most one line requiring Essential Service be assigned to LEV 0-3 for a given SM, LU, CONC, SWG, and SW.

If this recommendation is not used, blocking could occur when lines assigned Essential Service attempt to originate. Refer to section Section 1.6 .

Valid Entries: Y, N

2.21 FLS

Description: Will free terminating service be activated?

Default: N

Valid Entries: Y, N

2.22 SUSO

Description: Will Deny or Suspend Originating Service be activated?

Default: N

Valid Entries: Y, N

Data Rules:

If CLASS OF SERVICE on the associated LCC form is "B911", SUSO must be "Y".

If CLASS OF SERVICE is "2PTY" or "TWOPTY" on the associated LCC form (5306 Record), and 2 PARTY

ANI is "N" on the associated IMINFO form (5510 Record), then SUSO must be "N". "N" must be entered in this field if "N" is entered in the 2 PARTY ANI field on the associated IMINFO form, and either "2PTY" or "TWOPTY" is entered in the CLASS OF SERVICE field on the associated LCC form.

2.23 DNY ROH

Description: Will Deny Receiver Off-Hook tone be activated?

Default: N

Valid Entries: Y, N

2.24 PALIT

Description: Will Automatic Line Insulation Testing be prohibited? An entry of "N" indicates that testing is allowed).

Default: N Valid Entries: Y, N

Data Rules:

PALIT can be "Y" or "N" if the MLHG/TERM is defined on an MLHLN form with a CLASS OF SERVICE of "INDIV" defined on an LCC form. PALIT must be "Y" for any other CLASS OF SERVICE.

- **WARNING:** If the line is associated with a universal SLC, even though the CLASS OF SERVICE is "INDIV", PALIT must be "Y". Disregarding this warning may result in damage to the SLC Central Office Terminal and inaccurate test results.

For 5E7 and later, if "N" is entered (Automatic Line Insulation Test is allowed), then "INDIV", "PBX", "HOTMOTL", "HOTPBX" or "ATND" must be entered in the CLASS OF SERVICE field on the LCC form with an associated LCC/RAX combination.

2.25 PSLIM

Description: Should Subscriber Line and Instrument Measurement testing be prohibited?

This field supports the Trunk Line Workstation Metallic Test Capability feature. See Division 2, Section 4A230.

Software Release: 5E10 and later

Default: N

Valid Entries: Y, N

Data Rules:

If PSLIM is "N", the LCC/RAX combination and CLASS OF SERVICE on the LCC form must be "INDIV", "PBX", "HOTMOTL", "HOTPBX" or "ATND".

If RT INTERFACE is set to "TR008" and FTTH ENABLED is set to "Y" on the RTERM form, PSLIM must be "Y".

If OE is not entered, PSLIM must be "Y".

2.26 COMPL

Description: Will Complaint Observing be activated? COMPL is used for customers who question their message-rate bills. After the office is cut over, COMPL is set by Recent Change. This feature is initialized by ODA. When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered

calls from this Multi-Line Hunt line. The only exception is when the call encounters a Charge Index defined with an AMA Call Type of "FREE".

The only difference between this field and the other line type study indicators is the designation set in the AMA record.

Default: N

Valid Entries: Y, N

2.27 SLUS

Description: Will Subscriber Line Usage be activated? After the office is cut over, SLUS is set by Recent Change. This feature is initialized by ODA.

When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this Multi-Line Hunt line. The only exception is when the call encounters a Charge Index defined with an AMA Call Type of "FREE".

The only difference between this field and the other line type study indicators is the designation set in the AMA record.

Default: N

Valid Entries: Y, N

2.28 DTLBILL

Description: Will Optional Detail Bill be activated? After the office is cut over, OPT DET BILL is set by Recent Change. This feature is initialized by ODA.

When "Y" is entered, a detailed AMA record is generated on all originating answered and unanswered calls from this Multi-Line Hunt line. The only exception is when the call encounters a Charge Index defined with an AMA Call Type of "FREE".

The only difference between this field and the other line type study indicators is the designation set in the AMA record.

Default: N

Valid Entries: Y, N

2.29 TRAFFIC

Description: Will Traffic Study be activated? TRAFFIC is used typically for coin lines. TRAFFIC is initialized by ODA. After the office is cut over, TRAFFIC is set by Recent Change.

When "Y" is entered, a detailed AMA is generated on all originating answered and unanswered calls from this Multi-Line Hunt line. The only exception is when the call encounters a Charge Index defined with an AMA Call Type of "FREE".

The only difference between this field and the other line type study indicators is the designation set in the AMA record.

Default: N

Valid Entries Y, N

TERMINATING FEATURES

The following fields (Section 2.30 - Section 2.32) determine the Terminating Features and options associated with an MLHG TN.

2.30 ICP

Description: Will Intercept be activated? This field is required for routing terminating calls to Regular Intercept. If ICP is "Y", the MLHG/Terminal Number must be associated with a unique telephone number in the TN field. All calls terminating to this TN are rerouted to Regular Intercept.

Default: N

Valid Entries: Y, N

Data Rules:

A "Y" in this field requires an entry in fields RAX and LCC. ICP may be "Y" in two cases: either with an equipment assignment or without. If it is desired to route terminating calls to Regular Intercept and still maintain the equipment assignment, then the MLHG/TERM is translated with an appropriate ENTTYPE of LEN or SLC with the 5E2 Software Release or with an OE TYPE of "L" or "S" with 5E3 and later. If equipment is not to be assigned to this terminal, then enter "ICP" in ENTTYPE.

2.31 DNY BV

Description: Will Deny Busy Verification be activated?

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "Y" if the TN defined on this form has an associated CLASS OF SERVICE of "MODEM" on an LCC form.

2.32 NONHUNT

Description: Is this terminal a Non-Hunt Terminal? Non-hunt allows a line in an MLHG to receive direct calls that do not hunt if the called line is busy.

Software Release: 5E3 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Non-hunt TNs may be assigned to terminals within an MLHG with the following guidelines:

- Any terminal may be assigned a non-hunting TN.
- A non-hunting TN may be assigned the series completion feature.

Non-hunt TNs interact with the group features in the following ways.

- The group CFV (Call Forwarding Variable) has no effect on the non-hunt TN. If CFV is active for the group, calls to the non-hunt TN are not forwarded as a result of the group CFV.

- The group and member make-busy keys have no effect on the non-hunt TN. If the make-busy keys are operated, calls can still complete to the non-hunt TN.

If NONHUNT is "Y", then the associated TERMINATING TREATMENT on the LCC form must be "MLHG" or "INWATS". All non-outdial terminals with this field set to "Y" must have a TN entered. All outdial terminals must have this field set to "Y".

If NONHUNT is "Y", then the MLHG FEATURE on the MLHG form must be defined on an MLHGFD form with HUNT TYPE equal to "HTC", "UCD", "REG" or "PMHG".

EQUIPMENT

The following fields (Section 2.34 - Section 2.38) refer to equipment types and options used for lines assigned to an MLHG.

2.33 TRC

Description: Description: Will Call Tracing be activated? TRC is initialized by ODA. After the office is cut over, TRC is set by Recent Change.

Default: N

Valid Entries: Y, N

2.34 GST

Description: Is this a Ground-Start line? Refer to 1.5 under the GENERAL section of this form for more information on Ground-Start lines.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E7 and later, if MLHGs and TERMS on the MLHLN form have a matching LCC/RAX combination on an LCC form, and the associated LCC form has a CLASS OF SERVICE of "MODEM", then "N" must be entered in the GST field.

2.35 TST LINE

Description: Will a LEN, SLEN, DEN, TEN or LCEN be put into service during the Pre-Cutover mode? Refer to the IMINFO form (5510 Record) and the COTH form (5513 Record) for Pre- and Post-Cutover status of all TNs in the office. This would be an exception to a group of lines in an SM that has been set to a Pre-Cutover status equal to INACTIVE. This is normally done for test lines - not a live customer.

Default: N

Valid Entries: Y, N

2.36 GNDREF

Description: Is this LEN associated with FX line, Pair Gain, T-carrier or certain Range extended lines? Some common circuits requiring a "Y" option are listed here for convenience. A comprehensive list of affected equipment can be found in the 5ESS Switch Technical Specification 235-900-101.

- Pair Gain lines that are connected to Universal (nonintegrated) SLC-96 with FXO Channel Units for 2-Wire Foreign Exchange Office service (2FX0-SD-3C326 Loop or Ground Start).

- T-Carrier with FX0 Channel Units (SD-3C326, SD-3C126 Loop or Ground Start).

Software Release: 5E3 and later

Default: N

Valid Entries: Y, N

Data Rules:

If GNDREF is "Y", OE TYPE must be "C" or "L".

2.37 RANGEX

Description: Is this line Range Extended from a Central Office? Range Extended lines are those LENS that are connected to an external Range Extension device such as MFT J99343AC, J99343AJ or Larraine CEF6, or equivalent located outside the Central Office.

For hardware requirements, refer to the Interface/Compatibility Guide (235-700-100).

Required Field.

Default:

For 5E9(1) and earlier: N

For 5E9(2) and later: NONE

Valid Entries:

For 5E9(1) and earlier: Y, N

For 5E9(2) and later: See table below.

Valid Entries:

Valid RANGEX Entries	
Entry	Definition
EXT	Externally provided range extension
INT	Internally provided range extension (LU4 only)
NONE	No range extension
PBX	PBX/short loop range extension value (LU4 only)

Data Rules:

For 5E9(1) and earlier, if RANGEX is "Y", OE TYPE must be "C" or "L".

For 5E9(2) and later:

If "EXT" is entered, OE TYPE must be "C" or "L".

If "INT" or "PBX" is entered:

- OE TYPE must be "L",
- LINE UNIT TYPE on the EQLUP form (5711 Record) must be "4AN1" for LU4.

2.38 LNEQ

Description: Line Equip Class to inhibit Fabric Exerciser.

Software Release: 5E3 and later

Default: N

Valid Entries: N (Normal), I (Incompatible)

Data Rules:

LNEQ values other than N require an OE Number of "C" or "L".

MISCELLANEOUS FEATURES

The following fields (Section 2.39 - Section 2.40) include other features and options available to MLHG TNs. These features are continued under MISCELLANEOUS FEATURES Continued in the explanations for Record 5111-2.

2.39 SERHLN

Description: A TN associated with an MLHG Terminal which is part of a Series Completion Group to be hunted to. This TN must be defined on a LINE, MLHG or another MLHLN form.

NOTE: Series Completion hunts linked-list DNs until an idle line is found, or 16 Series Completion attempts have been made.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9
and X is 0 - 9

Data Rules:

If this field is entered, the TN field must be entered and NONHUNT must be "Y". If this field completes to a TN on an MLHG or another MLHLN form, then the associated MLHGFD form must have INWATS equal to "N".

The associated CLASS OF SERVICE on the LCC form must not be "INDIV". The TN field must be defined.

For 5E3 and later, if the associated CLASS OF SERVICE on the LCC form is "4WINDIV" or "MODEM", then this field must be blank.

For 5E6 - 5E8, a line dedicated to ASP services should not be entered as part of a Series Completion Group. When SERHLN is entered and PVN ALW is set to "Y", the DIGIT ANALYSIS SELECTOR on the corresponding LCC form (5306 Record) cannot be equal to PVN DAS on the OFCOPT form (5509) and should not be equal to a DAS equivalent in functionality to the PVN DAS (i.e., a virtual ASP DAS).

With 5E6 and later, the Series Completion feature supports BRI lines for CSV (Circuit-Switched Voice) calls. When SERHLN is entered, NONHUNT must be "Y" and TN must be entered. The TN field cannot be the same as SERHLN. The ICP field must be "N".

For 5E7 and later:

A maximum of 512 TNs can Series Complete to a single TN defined in SERHLN on the input forms of LINE, MLHLN, DSLUSR or SHTN.

If this field is entered, and SERHLN is defined as a TN on another MLHLN or LINE form, then the corresponding LCC form for SERHLN must have a CLASS OF SERVICE equal to

"2PTY"
 "4PSS"
 "4PFS"
 "5PTY"
 "8PSS"
 "10PTY"
 "ATND"
 "B911"
 "HOTMOTL"
 "HOTPBX"
 "INDIV"
 "PBX"
 "TWOPTY"

and TERMINATING TREATMENT must NOT be "AGING".

If SERHLN is entered, a corresponding LCC input form must have TERMINATING TREATMENT set to "INWATS" or "MLHG" and CLASS OF SERVICE must not be set to "MODEM" or "CALLBK".

For 5E8 only, the SERHLN cannot be a Standard BRI line, an analog line shared to a Standard BRI, or a Secondary Only TN associated with a Standard BRI. That is, the SERHLN may not be defined as a CKT TN or CKT SWITCHING MLHG TN on a DSLUSR form when DSL CLS is "STD" on the corresponding DSL form. It may not be defined as a TN on a LINE or MLHLN form if the TN or MLHG is a key on an SHTN form, and a shared list entry on that form is defined on a DSLUSR form with DSL CLS "STD" on the corresponding DSL form. It may not be defined as a Secondary Only key TN on an SHTN form where any shared list entry is defined on a DSLUSR form with DSL CLS "STD" on the corresponding DSL form.

For 5E8 and later, if SERHLN is entered, one of the following conditions must be satisfied:

1. The SERHLN assigned on MLHLN form must have "N" entered in ICP, and the LCC/RAX must match LCC/RAX on LCC form with a TERMINATING TREATMENT of "INWATS" or "MLHG".
2. The SERHLN matches a CKTTN on DSLUSR form with ICP set to "N".
3. The SERHLN matches a CKT MLHG TN on DSLUSR with ICP set to "N".
4. The SERHLN must be defined on LINE (as TN) with ICP set to "N" and the LCC/RAX must match LCC/RAX on LCC form with a TERMINATING TREATMENT set to "INWATS", "PARTY", "RI", or "INDIV".
5. The SERHLN matches an STN on SHTN form where the SMLHG/SMEMB is not entered and STN does not match the TN in ROW 1 of the SHARED LIST, with ICP = "N".
6. The SERHLN matches a STN on SHTN form where SMLHG/SMEMB is entered, SMLHG/SMEMB does not match the SMLHG/SMEMB in the first row of the SHARED LIST, and with ICP set "N".
7. The SERHLN assigned on MLHLN form must be defined on the LINE, MLHLN, DSLUSR, SHTN forms or as LISTED TN on MLHG form.

2.40 ALT BILL TN

Description: An Alternate Bill-To Telephone Number used when billing is charged to another line.

Valid Entries: A 7-digit number if calls are to be billed to an alternate number within the local office; a 10-digit

number if calls are to be billed to an alternate number outside the local 5ESS office, or a 7-digit 0/1XX-XXXX number for OUTWATS billing purposes.

The TN entered must be in one of the following formats:

Valid ALT BILL TN Entries	
Entry	Definition
NXXXXXX	Where NXX is a valid Office Code defined on a NOC input form.
NPANXXXXXX	Any 10-digit number is accepted. Normal expected values are valid NPA and NXX codes.
ZXXXXXX	Where Z is 0 or 1; this identifies the Alternate Billing Number being used for OUTWATS billing purposes. An HNPA is allowed when used for AMA or ANAC purposes.

Data Rules:

If the ALT BILL TN is blank, then a 10-digit Billing Number is built automatically based on the following input conditions:

- If the MLHLN TN field is submitted with a local 7-digit Telephone Number, this optional TN plus its associated NPA is stored at the Billing Number for the MLHG Terminal Number.
- If the optional MLHLN TN field is also blank for this MLHG Terminal Number, the MLHG's HUNT TYPE (defined on the corresponding MLHGFD form), the LISTED TN of the MLHG and MUPH SUBTNs from the MLHG form and the Terminal Number of this MLHG determine the Billing Number.

Case 1 The MLHG's HUNT TYPE from the corresponding MLHGFD form equals "REG" or "HTC". The Billing Number that is stored in memory corresponds to the MLHLN TN value assigned to the (main member) lead terminal of this MLHG. The associated NPA is added on to form a 10-digit number. Note that Lead Terminal Number 1 is required to have the optional TN assigned for "REG" and "HTC" HUNT TYPES.

Case 2 The MLHG's HUNT TYPE from the corresponding MLHGFD form equals "MUPH" and one or more of the six optional SUBTNx entries are submitted on the associated MLHG form. The Billing Number for the MLHG Terminal Number is constructed from the appropriate SUBTNx (x is 1 - 6) 7-digit TN with added NPA value. The appropriate SUBTNx entry is found from the MUPH Position/Terminal Number/SUBTN value correspondence table described in the MLHG form description. Each of the 511 MUPH Terminal Numbers is associated with a particular SUBTNx value (x is 1 - 6).

Case 3 The MLHG's HUNT TYPE from the corresponding MLHGFD form equals "UCD" and the Terminal 1 (Main Terminal Number of Group) is being built. The Billing Number is constructed from the LISTED TN 7-digit value defined on the corresponding MLHG form plus the TNs NPA value.

Case 4 The MLHG's HUNT TYPE from the corresponding MLHGFD form equals "UCD" and the Terminal Number being built does not equal 1. The Billing Number constructed for this terminal is the same Billing Number that was constructed for Terminal 1 of the MLHG. (Note that this Billing Number uses the result from above Case 3 or the MLHLN TN is known value case, which ever applies to the Terminal Number 1.)

2.41 SUPPL

Description: An indication that supplementary information for the MLHG/TERM is contained on the 5111-2. This field applies only to the 5111-1 Office Record.

Valid SUPPL Entries	
Entry	Definition

blank	There is no associated 5111-2 record entry.
2	One or more of the input items on the 5111-2 record is equal to a non-default value.

3. FORM ENTRIES - 5111-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the 6-character Base and Control number, Office Name and the MLHG number.

3.2 INDEX KEY

Description: The MLHG and Terminal Number for which supplementary information is required. Not required for ODA input.

Note: A corresponding 5111-1 Record is required.

MISCELLANEOUS FEATURES Continued

The following fields (Section 3.3 - Section 3.10) include other features and options available to MLHG TNs.

3.3 NO DIAL

Description: The type of NO DIAL Service used.

Valid NO DIAL Entries	
Entry	Definition
N	No Dial Service does not apply.
MAN	Manual Line Service is normally a one-party line with manual operation for use of handicapped subscribers. Manual originating lines route the same as if they had dialed a 0- call. When NO DIAL is "MAN", a Call Forwarding feature (defined on a CFWFD form, 5614 Record) cannot be assigned to this line.
HOT	Hot Line or Direct Connection.

Data Rules:

If NO DIAL is "HOT" or "MAN", then SUSO (deny origination) must be "N".

For 5E6 - 5E8, if "HOT" is specified and PVN ALW is set to "N", then the input field HOT LINE TN is required.

For 5E6 - 5E8, when "HOT" is specified and PVN ALW is "Y", then this line is direct-connected to ASP services, so HOT LINE TN cannot be entered and the corresponding LCC form (5306 Record) must have a CLASS OF SERVICE of "INDIV" and a DIGIT ANALYSIS SELECTOR equal to PVN DAS on the OFCOPT form (5509 Record).

If a CFWFD form (5614 Record) has been assigned to this line, then on the CFWFD form, ACT TYPE must be set to "AUTO" and FWD COND cannot be set to "DBSY", "DIDL" or "DBTH".

3.4 HOT LINE TN

Description: These columns identify the TN to be terminated to for MLHG/TERM having Hot Line Service. Valid Entries: A 7-, 10-, or 11- or 15-digit Hot Line TN. 15 digits (0 - 9, *, #, F, O, I, P) can be entered when MLHG/TERM is assigned a BRCS Precedence and Preemption feature.

HOTLINE TN can be in one of the formats below or listed as a PP feature code followed by Intercom digit string.

| | | | |

CALL TYPE	PP FEATURE CODE	ROUTE	AREA CODE	SWITCH CENTER	LINE #
ROUTINE	X	(1X)	(NPA)	(NXX)	XXXX
PRE- CEDENCE	XP	(1X)	(NPA)	(NXX)	XXXX
PRE- CEDENCE	XP				XXXX

Note: P is any digit or F, O, I, P.

Data Rules:

For 5E6 - 5E8, this field must contain an entry when the NO DIAL field is "HOT" and PVN ALW is "N". This field cannot be entered when NO DIAL is "HOT" and PVN ALW is "N" or when NO DIAL is "N" or "MAN".

3.5 SM REROUTE

Description: Stand-Alone Reroute for MLHG Members. Stand-Alone is allowed on any SM type.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

An entry of "Y" is valid only when both of the following conditions apply:

- The MLHG is global, i.e., members of the MLHG have their associated equipment numbers (LEN, SLEN or LCENs) spread over two or more SMs.
- At least one of the SMs with MLHG Members must be defined on an EQIM form and the STAND ALONE field on the EQIM form must be "Y", if the REMOTE SITE field is "IM" or "HIM", or, if the REMOTE SITE field is "ORM", "TRM" or "RSM", the STAND ALONE PURCHASED? field must equal "Y" on the EQSITE form where the REMOTE SITE value equals the REMOTE SITE value on the EQIM form.

An entry of "Y" allows intramodule calls to MLHG members on the local module to be completed when the module loses the communication link with the host office and is in Stand-Alone mode. The call is rerouted to an available MLHG member assigned to the module in Stand-Alone. If this field is "Y", then a TN must be defined in the TN field.

Although members of an MLHG can be assigned across several SMs in the host and over multiple modules, calls reroute only to members of the MLHG that are assigned to the module which is in the Stand-Alone mode. See Figure 1.

For 5E8 and later, if "Y" is entered then:

- ICP must be "N".
- a value of "INWATS" or "MLHG" must be entered in the TERMINATING TREATMENT field on the LCC form with the associated LCC/RAX combination.

For 5E10 and later, when Multiline Hunt Group Member(s) are defined on the MLHLN form with SM REROUTE equal to "Y", at least one other member of the MLHG must be assigned to an SM with the

Stand-Alone Call Processing feature. The SM value of the associated NUMBER on the MLHLN form, where OE TYPE is equal to:

"C"
"E" (5E11 and later)
"G"
"L"

or

"S"

must match an SM on the EQIM form where STAND ALONE is set to "Y" or where STAND ALONE PURCHASED is set to "Y" on the associated EQSITE form.

3.6 ANI7

Description: Is Automatic Number Identification 7 available on this line? ANI7 provides the ability to output the ANI information digit 7 to a CAMA or TSPS operator before the billing DN. This enables the operator to do a data base lookup to see how the call should be handled.

Software Release: 5E2 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later, if ANI7 is "Y", OE TYPE must be known.

3.7 TR303 NAILUP

Description: Is this line to be provisioned as a nailup for IDCU TR303 RT (Remote Terminals)?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then

- OE TYPE must be entered and must be "M" or "G" (RT lines).
- GST must be "N".
- PTY must be "I" or MFRI must be "Y".
- the LCC/RAX combination assigned on the LINE/MLHLN form must NOT have a CLASS OF SERVICE of "COIN" on the corresponding LCC form.

If the CONTROLLING OE-types/numbers defined on the NAILUP input form with CONTROLLING OE-type

equal to "A", or "G", and DDS equal to "Y" are associated with an RTERM form where RT INTERFACE is "TR303", then the corresponding MLHLN form must have the TR303 NAILUP field set to "Y".

Also, if the NON-CONTROLLING OE-types/numbers, defined on the NAILUP input form with NON-CONTROLLING OE-type equal to "A", or "G", and DDS equal to "Y" are associated with an RTERM form where RT INTERFACE is "TR303", then the corresponding MLHLN form must have the TR303 NAILUP field set to "Y".

3.8 BUSY MONITOR

Description: Can the TN entered for this MLHG can be monitored by the Busy Lamps of an ISDN Attendant MLHG?

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E5 and later, if BUSY MONITOR is "Y", OE TYPE and ATT MLHG must be entered and the associated CLASS OF SERVICE on the LCC form must be "INDIV".

For the 5E4(2) Software Release, if BUSY MONITOR is "Y", a TN, OE TYPE and ISAT GRP must be entered and the associated CLASS OF SERVICE on the LCC form must be "INDIV".

BUSY MONITOR must be "N" for TERM number 1 of an MLHG.

An ISDN MLHG can busy monitor a Hundreds Group (TNs that share the first five digits) only if those TNs that can be busy monitored do not physically terminate to more than 12 processors (SMs and/or AM). Entering a LISTED TN on an MLHG form causes the AM to be counted as one of the processors.

The following TNs can be included in the Hundreds Group, if the BUSY MONITOR field on the form is set to "Y":

- a TN from a LINE form
- a TN from an MLHLN form
- a CKT TN from a DSL form
- a CKT TN from a DSMLHLN form
- a LISTED TN from an MLHG form
- a TN (key) from a SHTN form.

The following physical terminations can be included in the Processor count, if the BUSY MONITOR field on the form is set to "Y":

- the first three digits (SM) of the OE
NUMBER from a LINE form

- the first 3 digits (SM) of the OE NUMBER from an MLHLN form
- the first 3 digits (SM) of the LCEN from a DSL form
- the first 3 digits (SM) of the LCEN from a DSMLHLN form
- a LISTED TN from an MLHG form causes the AM to be counted
- the first TN in the SHARED LIST on a SHTN form has three possible cases:
 - if the TN matches the CKT TN on a DSL form, then the corresponding first 3 digits (SM) of the LCEN on that DSL form are counted;
 - if the TN matches the CKT TN on a DSMLHN form, then the corresponding first 3 digits (SM) of the LCEN on that DSMLHLN form are counted;
 - if the MLHG and TERM NBR match the CKT MLHG and CKT TERM on a DSMLHLN form, then the corresponding first 3 digits (SM) of the LCEN on that DSMLHLN form are counted.

3.9 ATT MLHG

Description: The Attendant MLHG that can control the terminal defined on this form.

Software Release: 5E5 and later

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The ATT MLHG must have a CLASS OF SERVICE "ISATND" or "ATND" defined on the LCC form (5306 Record).

If this field is entered and TERM is 0001, the MLHG must be defined on an MLHG form with ATT MLHG equal to the ATT MLHG on this form.

For 5E7 and later, if ATT MLHG is entered and TERM is 0001 (Terminal 1 of this Multi-Line Hunt Group), the feature assigned on the corresponding MLHGFD form cannot have a HUNT TYPE of "HTC", "REG", or "PMHG".

For 5E8 and later, if ATT MLHG is entered, RBV TGN must not be entered.

3.10 RBV TGN

Description: Enter the number of the incoming trunk group used to Remote Busy Verify the TN (DN) of this form. This TGN allows an ISAT (ISDN Attendant) on another 5ESS Switch to Busy Verify this DN if the TGN is associated with a TN (DN).

Software Release: 5E8 and later

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

If RBV TGN is entered, ATT MLHG must not be entered, TN must be entered, and BUSY MONITOR must be "N".

If RBV TGN is entered, there must be a corresponding TKGRP form (5202 Record) with that TGN defined, and that TKGRP form must have TRKCLS set to "ATNDVFY", and TRK DIR must be "INC". Also, for the TGN on the TKGRP form, there must be at least one corresponding TRUNK form (5204 Record) with QTY entered.

If RBV TGN is entered, MLHG must equal MLHG on a corresponding MLHG form. That MLHG form must have MLHG FEATURE equal to FEATURE NAME on a corresponding MLHGFD form, which in turn must not have HUNT TYPE set to "MUPH", "ISAT", or "PSUCD".

If RBV TGN is entered and TERM is 0001 (Terminal 1 of this Multi-Line Hunt Group), the feature assigned on the MLHGFD form cannot have a HUNT TYPE of "HTC", "REG", or "PMHG".

BASIC 911 ESB

The following fields (Section 3.11 - Section 3.13) determine service capabilities for ESB (Emergency Service Bureau) and Basic 911. ESB lines must be marked as denied origination. ESB Attendants can transfer an incoming Basic 911 call to the proper agency via an ordinary POTS two-way line.

The ESB has forced disconnect on all Basic 911 calls and automatic forced hold capability for all Basic 911 call originated from local individual, coin, 2-party or multi-party sources.

The ESB can be set up as a single individual line, as Series Completion or as an MLHG with a minimum of two lines. The recommended ESB arrangement is MLHG with a single main Directory Number for the group.

3.11 RINGBACK

Description: BASIC 911 - ESB ringback capability. An ESB attendant can initiate ringback to a calling party who is in an on-hook or an off-hook condition by a flash (200 - 1100 milliseconds) on 911 calls originating from a local individual, coin, 2-party or multi-party line. This field can be set to "Y" only when the 911 ESB is located in and is served by the local 5ESS Switch.

Required Field.

Default: N

Valid Entries: Y, N

3.12 STATMON

Description: BASIC 911 - ESB Status Monitoring capability. The 5ESS sends calling line status indication to the ESB attendant via DC signaling and/or the presence or absence of low tone. Status is sent if the caller goes on-hook and is capable of being force held or if caller being forced held returns off-hook. This field can be "Y" only when the 911 ESB is located in and served is by the local 5ESS Switch.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y" then the associated Line Class Code - Service Class must be "B911".

3.13 TONDET

Description: Is the 911 ESB capable of detecting low tone? An entry of "Y" means that the 911 Service Bureau has a low tone decoder operating. TONDET should be "N" if the 911 Service Bureau cannot detect low tone.

Required Field.

Default: N

Valid Entries: Y, N

SCAN AND DISTRIBUTE POINTS

The following fields (Section 3.14 - Section 3.19) list the miscellaneous equipment numbers required to activate specialized features for MLHG lines.

3.14 MESSG REGISTER

Description: A Message Register Distribute Point number associated with Hotel/Motel service.

Valid Entries: The Message Register Distribute Point Number consisting of

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
Distribute Point Number	DPN	XX	(Modular MSU)
			00 - 31

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

Message Register lines cannot be Feature Group A.

3.15 SLEEVE LEAD CKT

Description: A Telephone Terminal Number that requires a Sleeve Lead, such as Hotel/Motel Registers, Remote and MLHG Overflow Registers.

Valid Entries: A Miscellaneous Equipment Number consisting of

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31

			(Modular MSU)
Distribute Point Number	DPN	XX	00 - 31

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

3.16 MAKE BUSY KEY

Description: A Telephone/Member Number that requires a Remote Make Busy Key assignment.

Valid Entries: A Miscellaneous Equipment Number consisting of

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

This field cannot be entered if the MLHG form has HUNT TYPE equal to "MUPH".

The individual TN is only allowed to have one TN associated with the Scan Point Number, although the MLHG can have up to 32 terminals sharing one Scan Point Number for Make Busy Keys. Each Terminal is assigned to the same Scan Point Number for this application.

3.17 RND MKB

Description: This field is used to assign a scan point number to a Random Make Busy Key. When the scan point is toggled on, artificial busy will be applied to all terminals assigned to this scan point.

Valid Entries: A scan point equipment number consisting of the following:

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

Data Rules:

RND MKB can be entered only if OE TYPE and NUMBER are also entered.

RND MKB can be entered only if TERM is 1 - 2015 (not on an Outdial terminal).

This field cannot be entered if the MLHG form has HUNT TYPE equal "MUPH".

3.18 STOP HUNT KEY

Description: Circuit designation for a Stop Hunt Key.

Valid Entries: A Miscellaneous Equipment Number consisting of

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

This field cannot be entered if the MLHG form has HUNT TYPE equal to "MUPH".

3.19 DC MKB

Description: Should this analog Multiline Hunt Group member have dial codes for Make Busy? This DC MKB (Dial Code Make Busy) field indicates whether or not this analog Multiline Hunt Group member can have dial codes to enable Make Busy. This field supports the Dial Code Terminal Make Busy for MLHGs feature. For more information on this feature, see Division 2, Section 4A555.

Software Release: 5E15 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When DC MKB is "Y":

RND MKB must not be entered.

STOP HUNT KEY must not be entered.

SHARED must be "N".

MAKE BUSY KEY must not be entered.

TERM must be from 1 - 2015.

For 5E15 and later:

When DC MKB is entered on this form, the ACT field on the SFSYS form (5713-1 Record) for SFID (Secured Feature ID) 555 must be set to "Y". (For more detailed information on the Dial Code Terminal

Make Busy for MLHG's feature, see Division 2, Section 4A555.)

One of the following two conditions must exist:

When DC MKB is entered and TERM is "1", GROUP MAKE BUSY KEY on the MLHG form (5110 Record) must not be entered; or

When GROUP MAKE BUSY KEY is entered on the MLHG form (5110 Record), a corresponding MLHLN form (5111 Record) must exist with DC MKB set to "N" when TERM is "1".

When DC MKB is set to "Y", TERM must have a HUNT TYPE of "HTC", "REG", or "UCD" on the MLHGFD form (5604 Record).

4. FORM ENTRIES - 5111-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

4.2 INDEX KEY

These columns define the MLHG and Terminal Number for which supplementary information is required. Not required for ODA input.

SCAN AND DISTRIBUTE POINTS Continued

The following field lists the miscellaneous equipment numbers required to activate specialized features for MLHG lines.

4.3 CARRIER GRP ALM

Description: The Carrier Group Alarm Scan Point Number assigned to the carrier system of this line.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

Do not use a Carrier Group Alarm Scan Point for lines with a SLEN (Integrated SLC 96 Line Equipment Number).

All lines assigned to the same carrier system must share the same Scan Point Number which is defined on a CGASP form (5514 Record). For 5E9(1) and later, ACTION on the CGASP form must be "CON".

Refer to Division 8, Section 1 for procedures to obtain these assignments.

4.4 SHARED

Description: Is this terminal a primary Shared Terminal or does this terminal share a TN with one or more ISDN Lines or Terminals?

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", the associated CLASS OF SERVICE on the LCC form must be "INDIV" and the SM that this Terminal terminates to must be defined on the EQIM form with "LOADED" entered in the CONFIGURATION field.

If this field is "Y", this Terminal must appear on a SHTN form (5902 Record) in the key TN field. If "N", this Terminal cannot appear on a SHTN form.

For 5E11 and later, if this field is "Y", then OE TYPE must be specified.

4.5 PRIVACY

Description: Is all-call privacy in effect? All-call privacy allows the calling party to prevent TN information from being displayed to the called party for all calls. All-call privacy can be deactivated on a per-call basis by entering a "Y" in the TN PRIVACY field on the DISPFD form and assigning a dialed code.

For 5E6 and later, this field is optional. If this field is set to "Y", the presentation status of the calling number will be private. When this field is set to "N", the presentation status of the calling number is public. If the CPNP (Calling Party Number Presentation) feature has not been purchased (FID 50 on the SFSYS form (5713-1 Record) is not set to "S"), a blank PRIVACY field will default to "N". When the CPNP feature has been purchased (FID 50 on the SFSYS form (5713-1 Record) is set to "S"), a blank PRIVACY field will remain blank allowing the presentation status to be determined by either the PRIVACY field on the SCRIDXPA form (5543 Record) or the DN PRIVACY field on the OFCOPT form (5509 Record).

For 5E6 and later, the precedence for determination of call privacy is dependent on the purchase of the CPNP special feature. When the CPNP special feature has not been purchased, the precedence hierarchy is:

1. If DN PRIVACY on the OFCOPT form is "Y", the calling party number presentation status is private.
2. If DN PRIVACY on the OFCOPT form is "N", the calling party number presentation status is determined by the PRIVACY field on this form.

When the CPNP special feature has been purchased, the precedence hierarchy is:

1. If PRIVACY on this form has been entered, it is used to determine the calling party number presentation status.
2. If PRIVACY on this form has not been entered, but an SCRIDXPA form has been entered for the SCREENING INDEX assigned to the LCC form whose LCC and RAX are assigned to this form, then that SCRIDXPA form may be used. If PRIVACY on the SCRIDXPA form has been entered, then that

value is used to determine the calling party number presentation status.

3. If PRIVACY on the SCRIDXP form has not been entered, or no corresponding SCRIDXP form was found, then DN PRIVACY on the OFCOPT form will be used to determine the calling party number presentation status.

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

4.6 OVRD DNY XFER

Description: This field was added to allow lines to override the Deny Call Transfer feature.

Software Release: 5E12 and later

Default: N

Valid Entries: Y, N

Data Rules:

When OVRD DNY XFER is set to "Y", this indicates that this line is allowed to override denials during a call transfer.

When the OVRD DNY XFER field is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y".

LASS FEATURES

The following fields (Section 4.7 - Section 4.10) determine if LASS (Local Area Signaling Service) features are activated for this line. LASS is described in detail in Division 2, Section 1Y. LASS features are available with 5E5 and later.

4.7 AC ALW

Description: Is the LASS Automatic Callback feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If this field is blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "ISATND", "ATND", "PBX", or "4WINDIV", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is automatically assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the MLHG/TERM is assigned a LASS Automatic Callback feature on the MLHLNFA, BFG, or associated CLUSTER form, AC ALW may NOT be "N".

4.8 AR ALW

Description: Is the LASS Automatic Recall feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "ISATND", "ATND", "PBX", or "4WINDIV", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is automatically assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the MLHG/TERM is assigned a LASS Automatic Recall feature on the MLHLNFA, BFG, or associated CLUSTER form, AR ALW may not be "N".

4.9 COT ALW

Description: Is the LASS Customer Originated Trace feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "ISATND", "ATND", "PBX", or "4WINDIV", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is automatically assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "INDIV", "ISATND", "ISDN", "PBX" or "4WINDIV".

For 5E6 and later, if the MLHG/TERM is assigned a LASS Customer Originated Trace feature on the MLHLNFA, BFG, or associated CLUSTER form, COT ALW may not be "N".

4.10 PCP ALW

Description: Is the LASS ICLID (Individual Calling Line Identification) Per-Call Privacy feature allowed on this line?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN", "INDIV", "ISATND", "ATND", "PBX", "4WINDIV", "B911", "CALLBK" for 5E6 or "LPTCLBK" for 5E7 and later, "SATSTLN", or "CHGCALL", then ODA assigns a "Y" in this field. Otherwise, a value of "N" is automatically assigned.

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be "ATND", "B911", "CALLBK" for 5E6 or "LPTCLBK" for 5E7 and later, "CHGCALL", "INDIV", "ISATND", "ISDN", "PBX", "SATSTLN" or "4WINDIV".

For 5E6 and later:

"Y" may be entered for the additional classes of service: "TWOPTY", "HOTMOTL", "COIN", or "2PTY".

When left blank, this field will be treated as having a value of "Y" for the following additional classes of service: "TWOPTY", "HOTMOTL", "COIN", or "2PTY".

PCP general availability may be allowed or denied via the LASSFA form (5973 Record) and the SCRIDXP form (5543 Record).

If MLHG/TERMs on an MLHLN form or CKT MLHG/TERMs on a DSLUSR form have a PCP ALW value of "Y", the MLHG/TERM or CKT MLHG/TERM must also be defined on the MLHLN form or DSLUSR form with an LCC/RAX value that corresponds to one of the following CLASS OF SERVICES on the LCC form (5306 Record): "ATND", "B911", "CALLBK" for 5E6 or "LTPCLBK" for 5E7 and later, "CHGCALL", "COIN", "4WINDIV", "HOTMOTL", "INDIV", "ISATND", "ISDN", "PBX", "SATSTLN", "TWOPTY", or "2PTY".

The CLASS OF SERVICES "COIN", "HOTMOTL", "TWOPTY", and "2PTY" are valid only when the office has purchased the Calling Party Number Presentation secured feature, the SFSYS form (5713-1 Record) has Secured Feature ID 50 set to "S" or "Y".

4.11 ALT LANG

Description: Should the alternate language DSU2-RAF LASS announcements be used? This field supports the Alternate Language LASS Announcement feature, for more information on this feature see Division 2, Section 4A119.

Software Release: 5E8 and later

Default: N

Valid Entries: Y, N

Data Rules:

If ALT LANG is set to "Y", then two FIXRT forms must be defined: one with "ALSLE" entered in FIXED ROUTE TYPE and one with "AL2LVL" entered in FIXED ROUTE TYPE.

MLHLN forms with an ALT LANG field set to "Y" indicate that the Alternate Language LASS Announcement Special Feature is to be used. It is a secured feature and must be purchased by the office before this field can be set to "Y". An SFSYS form must exist with SFID 119 ACT set to "Y".

LTSB

The following fields (Section 4.12 - Section 4.17) define LTSB (Line Time Slot Bridging) requirements for 5E11 and later.

LTsb provides a software emulation of traditional metallicly bridged two-party lines and off-premise extensions. A member of an LTSB group cannot be a member of any other multi-party service. For more information, see Division 2, Section 4A263.

4.12 ASSOC OE TYPE

For 5E12 and later, this field has been renamed ASSOC OE. See ASSOC OE for more information.

4.13 NUMBER

For 5E12 and later, this field has been renamed ASSOC OE. See ASSOC OE for more information.

4.14 ASSOC OE

Description: This field has an entry for TYPE and an entry for NUMBER. The Associate Office Equipment indicates the port of the companion member in a 1-TN LTSB group. The port of the lead member is entered in the OE on this MLHLN form.

Software Release: 5E11 and later

Valid Entries: **TYPE:**

Valid ASSOC OE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TR303/DNUS equipment number (INEN).
C	For a port that resides on Z-card within an ISLU (Integrated Services Line Unit) or within a RISLU (Remote Integrated Services Line Unit).
E	Software Release: 5E11 and later. The TN is associated with an AIU (Access Interface Unit).
G	For a port that resides on IDCU Equipment with a 10-digit equipment number (GEN) for a remote terminal or a PUB43801.
L	For a port that resides on a Line Unit.
O	Software Release: 5E16 and later. OIU (Optical Interface Unit Equipment Number)
S	For a port that resides on an Integrated or Universal SLC (Subscriber Line Carrier).

The following valid entries for the number portion of the ASSOC OE field are dependent upon the type value entered in the preceding table.

If "A" is entered in the ASSOC OE TYPE field, this TR303/DNUS Equipment Number consists of the following:

NUMBER:

Valid ASSOC OE NUMBER Entries, TYPE A			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Network Unit-Synchronous Optical Unit	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Remote Line	LINE	XXXX	0001-2048

If "A" is entered in the ASSOC OE TYPE field on the DSL, DSLUSR, LINE, MLHLN, TRUNK or MISLINK form(s) then the SM, DNUS, and RT values assigned to OE NUMBER[1,6] must correspond to the SM, UNIT NUMBER[2,2], and RT EX values assigned on any RTERM form.

NOTE: DSL/DSLUSR/MISLINK OE ports must be located on equipment identified on an RTERM form where RT INTERFACE is "TR303".

If "C" is entered in the ASSOC OE TYPE field, this Line Equipment Number consists of the following:

Valid ASSOC OE NUMBER Entries, TYPE C			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Line Unit	LU	X	0-7
Line Group Controller	LGC	XX	00-15
Line Card	LC	X	00-31

If the ASSOC OE TYPE is "C", which corresponds to an ISLU Line Card Equipment Number, then the ASSOC OE NUMBER assigned on the MLHLN form must have a corresponding line card assignment on the ISLULC form with an EQST of "O" and a TYPE of either "ZLC" or "SZLC".

If "E" is entered in the ASSOC OE TYPE field, this AIU Equipment Number consists of the following:

Valid ASSOC OE NUMBER Entries NUMBER, TYPE E			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Analog Interface Unit	AIU	XXX	000 - 042
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 31

If the ASSOC OE TYPE is "E", then the ASSOC OE NUMBER must be shown as equipped with a TYPE of "LP2ADSL", "AIZLP", or "AIGLP", on the EQAIUP form.

If "G" is entered in the ASSOC OE TYPE field, this IDCU Equipment Number residing on a Remote Terminal consists of the following:

Valid ASSOC OE NUMBER Entries NUMBER, TYPE G			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	XX	00 - 42
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

If the ASSOC OE TYPE is "G" (the ASSOC OE is assigned to IDCU equipment), then the following ASSOC OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a known value defined on the RTERM form.

- NOTE:** The last two digits of the ASSOC OE NUMBER are determined by the CU XX/YY value (where XX is an odd number range of 01-95 and YY is an even number of XX + 1). Both the ASSOC OE NUMBER (10,11) line values in the pair are assignable when CUXX or CUYX type is "FSR", "MP", "SP", "SSV00", "SSV10", "DFXS", or "SPOTS". Only the lower (odd) numbered ASSOC OE NUMBER value is assignable when CU XX/YY type is "COIN", "FXS", or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

ASSOC OE NUMBER	
OE	RTERM
NUMBER(1,3)	SM
NUMBER(4,5)	UNIT NUMBER
NUMBER(6,7)	RT EX
NUMBER(8,11)	For OE TYPE = "G": POS value for CU XX/YY type = "FSR", "MP", "SP", "SPOTS", "FXSLS", "SSV00", "SSV10", "DFXS".

OE (Originating Equipment) ports with OE (and/or ASSOC OE) TYPE of "G" on the DSL, DSLUSR, LINE, MLHLN, TRUNK or MISLINK form(s) which have SM/IDCU/RT values assigned to OE NUMBER(1,7) must correspond to the SM/UNIT NUMBER/RT EX values assigned on any RTERM form.

- NOTE:** DSL/DSLUSR/MISLINK OE ports must be located on equipment identified on an RTERM form where RT INTERFACE is "TR303".

If "L" is entered in the ASSOC OE TYPE field, this Line Equipment Number consists of the following:

Valid ASSOC OE NUMBER Entries, TYPE L			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Line Unit	LU	XXX	000 - 042
Concentrator	CON	X	0-9
Switch Group	SWG	X	0-1
Switch	SW	X	0-7
Level	LEV	X	0-3

When TRKOE TYPE is "O" (OIU), this OIU Equipment Number consist of:

TRKOE NUMBER, TYPE O - Equipment			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
Performance Monitoring Group	PG	XX	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container	LVC GRP	X	1 - 4
Channel	CH	XX	01 - 28

If "L" is entered in the ASSOC OE field and a 1-TN LTSB group is being defined, then the SM and LU values must match, respectively, the SWITCHING MODULE and LINE UNIT values on an EQLUP form (5711 Record). Additionally, the CON value must match an LU GRID X value (X = 0 to 9) with an EQUIPMENT STATUS of "G" or "O".

If the ASSOC OE TYPE is "L" and corresponds to an LEN (Line Equipment Number), the ASSOC OE NUMBER must be shown as equipped on the EQLUP form.

If "S" is entered in the ASSOC OE TYPE field, this Integrated SLC Equipment Number consists of the following:

Valid ASSOC OE NUMBER Entries, TYPE S			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Carrier Line Unit	DCLU	X	0-7
Remote Terminal	RT	XX	01-32
Line	LINE	XX	01-96

The ACT field on SFID 262 on the SFSYS form must be set to "Y" before the ASSOC OE TYPE/NUMBER are entered.

When MAN EXCL field is "Y", then the ASSOC OE field must be entered.

If ASSOC OE is entered, then the following conditions apply:

- AC ALW and AR ALW must be "N"
- ATT MLHG must not be entered
- BUSY MONITOR must be "N"
- CARRIER GRP ALARM cannot be entered

- CIDLAL must be "ALLOW", "DENY" or "REQ"
- CLSS must be "N"
- GNDREF must be "N"
- if OE TYPE is "G", OE TYPE must not be in PUB43801 format
- For 5E11 and 5E12, NO DIAL must be "N"
- OE TYPE and NUMBER must be entered
- OE TYPE and NUMBER must not be the same as ASSOC OE TYPE and NUMBER
- OE TYPE must be "A", "C", "E", "G", "L" or "S" for LTSB (5E12 and later)
- OE TYPE must be "C", "E", "G", "L" or "S" for LTSB (5E11 only)
- RBV TGN must not be entered
- SHARED must be "N"
- SLEEVE LEAD CKT must not be entered

When MFRI is "Y" and ASSOC OE TYPE is "G", then PTY must be 1 - 5.

When an MLHLN form has the 1-TN LTSB assigned, a corresponding MLHLNFA form may have one or more of the following BRCS features assigned if the SFID 262 ACT field on the SFSYS form is set to "Y".

Valid BRCS Features		
Feature	Form	Field
Call Forwarding	CFWFD	FORWARD CONDITION= "BUSY",, "IDLE",, or "BOTH".
Display Feature - Per Call Privacy	DISPFD	TN PRIVACY="Y".
Incoming Line Identification	LIDFD	CNAM,, CALL NBR DELIV PRIM,, CALL NBR DELV ALL= "Y".
LASS Selective Call Acceptance	LSCAFD	
LASS Automatic Callback	LSACFD	
LASS Selective Call Distinctive Alert	LSDAFD	
LASS Selective Call Forwarding	LSCFFD	
LASS Automatic Recall	LSARFD	
LASS Selective Call Rejection	LSCRFD	
Message Service System	MSFD	
Multi-Way Calling	MWFD	CALL PICKUP ENTRY POINT="N".
One- Two-Digit Speed Calling	SCFD	SC SHARED="Y".

When an MLHG/TERM(s) is assigned on the MLHLN form(s) where ASSOC OE is entered assigning 1-TN LTSB to this MLHG/TERM:

- the corresponding MLHGFD form must have HUNT TYPE of "REG", "HTC", or "UCD". The MLHLN form

corresponds with the MLHG form if the MLHG fields match. The MLHG form corresponds with MLHGFD form if the MLHG FEATURE field on the MLHG form matches the FEATURE NAME on the MLHGFD form.

- ASSOC OE TYPE and NUMBER on these MLHLN forms must not match an OE TYPE and NUMBER on a different MLHLN form.
- ASSOC OE TYPE and NUMBER on the MLHLN form must not match the OE TYPE and NUMBER on a LINE form.
- When LINE and/or MLHLN forms have an ASSOC OE TYPE and NUMBER for LTSB entered, the same ASSOC OE TYPE and NUMBER cannot be duplicated on two or more forms. Each ASSOC OE TYPE and NUMBER must be unique.

5E12 and later:

The 1-TN LTSB with IBDS Package 1 is a Secured Feature which is required for the IBDS Package 2 features. Therefore, the ACT field for SFID 262 must be set to "Y" before the SFID 263 ACT field can be set to "Y".

When an MLHLN form has the 1-TN LTSB assigned, a corresponding MLHLNFA form may have one or more of the following BRCS features assigned if the SFID 263 ACT field on the SFSYS form is set to "Y".

Valid BRCS Features		
Feature	Form	Field
Call Waiting with Dial Call Waiting and Call Waiting Originating	CWTFD	INVOCATION="CODE" or "FLASH",, FLASH ON FORWARD= "Y",, CW DELUXE="N"
LASS Customer Originated Trace	LSCOTFD	
Distinctive Ringing	DRFD	
Individualized Dialing Plan	IDFD	
Message Detail Recording	MDRFD	
Private Facilities Access	PFAFD	
Terminal Group Station Restriction	TGSRFD	

Queueing is not allowed for 1-LTSB. For a MLGH TERM(s) defined on an MLHLN form with an ASSOC OE entered, which is assigned 1-TN LTSB and a PFA (Private Facility Access) feature is assigned on the corresponding MLHLNFA form, then QUEUE ALLOWED or PRIORITY QUEUE must be "N" on the BFG and PFAMPA forms. In addition, QUEUE ALLOWED or PRIORITY QUEUE must be "N" on the PFAFD form, unless these parameters are overridden on the corresponding BFG or PFAMPA forms. For 5E13 and later, when the ACT field for SFID 280 on the SFSYS form is set to "Y", queueing is allowed, (i.e., QUEUE ALLOWED and PRIORITY QUEUE can be "Y").

5E13 and later:

The following checks for SFID 280 are related to the IBDS3 (Internally Bridged Dual Service - Package 3) feature. For more information on this feature, see Division 2, Section 4a280.

The ACT field for SFID 280 on the SFSYS form must be set to "Y" when the MLHG/TERMs are defined on a

MLHLN form with the ASSOC OE TYPE and NUMBER entered, (assigning 1-TN LTSB (Line Time Slot Bridging) to the MLHG/TERM), and the corresponding MLHLNFA form has one or more of the following BRCS features entered:

Valid BRCS Features	
Feature	Form
Account Codes	ACCTFD
Automatic Route Selection	ARSFD
Advanced Services Interface	ASIFD
Authorization Codes	ATHFD
Bulk Calling Line Identification	BCLIDFD
Time of Day	TODFD

When the ACT field for SFID 280 on the SFSYS form is set to "Y", the ACT field for SFID 263 on the same form must also be set to "Y".

If the ASSOC OE on the MLHLN form is entered, NO DIAL must be "N", unless the ACT field for SFID 280 on the SFSYS form is set to "Y". If SFID 280 is set to "Y", ASSOC OE can be "HOTN".

5E16 and later:

When ASSOC OE is entered, OE TYPE must be "A", "C", "E", "G", "L", "S", or "Y" for LTSB.

When ASSOC OE is "Y" (VEN), NUMBER must be sm[001 - 192] line [00001 - 28800].

4.15 LEAD PORT

Description: The OE is always the lead port for this LTSB group. This is a no change field. For more information, see Division 2, Section 4A80.

Software Release: 5E11 and later

4.16 IALT

Description: Is Intra-Switch Analog Line Transfer active? This field is a no change field and defaults to "N".

Software Release: 5E11 and later

4.17 MAN EXCL

Description: Can the ports defined in the OE TYPE/NUMBER combination and the ASSOC OE TYPE/NUMBER combination exercise the Manual Exclusion feature? The value entered in this field applies to both members of the group.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If MAN EXCL is "Y", ASSOC OE TYPE and NUMBER must be entered.

4-WIRE SPECIFICATIONS

The following fields (Section 4.18 - Section 4.22) are available in 5E3 and later Software Releases. They are used in DSN (Defense Switched Network) offices (indicated by the DSN OPTION field on the OFCOPT form being set to "Y"). An entry in these fields is only valid for lines that have a CLASS OF SERVICE (LCC form) of "4WINDIV". These fields may only be entered when OE TYPE is "D", "N" or "T".

4.18 ROUTINE RINGING

Description: The type of Routine Ringing for 4-wire access lines.

Valid ROUTINE RINGING Entries	
Entry	Definition
4WOFF	Off-hook alerting
4W24	2-seconds off-hook, 4 seconds on-hook)

Data Rules:

For 5E4(2) and later, if CONFERENCE BRIDGE is "Y", ROUTINE RINGING must be "4WOFF".

4.19 PRIORITY RINGING

Description: The type of Priority Ringing for 4-wire access lines.

Valid PRIORITY RINGING Entries	
Entry	Definition
4WOFF	Off-hook alerting
4W350	Simple wink, 350ms on-hook/off-hook
4W1650	Continuous 1650ms off-hook/350ms on-hook

Data Rules:

For 5E4(2) and later, if CONFERENCE BRIDGE is "Y", PRIORITY RINGING must be "4W350".

4.20 AUDIBLE RINGING

Description: Does the 4-wire subscriber line equipment provide its own Audible Ring?

Default: N

Valid Entries: Y, N

4.21 INC. START SIGNAL

Description: The Incoming Start Signal for 4-wire subscriber lines.

Default: DIALTONE

Valid Entries:

Valid INC. START SIGNAL Entries	
Entry	Definition
WINK	Wink Start
WNKDT	Wink Start and Dial Tone
DIALTONE	Dial Tone

Data Rules:

If CONFERENCE BRIDGE is "Y", then INC. START SIGNAL must be either "WINK" or "WNKDT".

4.22 CONFERENCE BRIDGE

Description: Is the 4-wire subscriber line a conference bridge connection?

Default: N
Valid Entries: Y, N

4.23 PVN ALW

Description: The name of this field was changed to ASP ALW in 5E8. This field name applies to 5E6 - 5E7. See ASP ALW for usage information.

4.24 ASP ALW

Description: Is this line allowed to originate ASP (Advanced Services Platform; previously PVN, Private Virtual Network) calls using an ODP Feature/Prefix Code trigger? (This field was called PVN ALW for 5E6 - 5E7).

Software Release: 5E6 - 5E8
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

An entry of "Y" indicates the line is allowed to originate such ASP calls while "N" indicates the line is not allowed to originate such ASP calls.

If PVN OFC on the OFCOPT form (5509 Record) is set to "NONE", then this office does not support ASP and PVN ALW must be "N". PVN ALW may be set to "Y" only if the corresponding LCC form (5306 Record) has a CLASS OF SERVICE of "INDIV", "ISDN" or "ATND".

If PVN ALW is "Y" and NO DIAL is "HOT", then this line is direct-connected to ASP services and the corresponding LCC form (5306 Record) must have a CLASS OF SERVICE of "INDIV" and a DIGIT ANALYSIS SELECTOR equal to PVN DAS on the OFCOPT form (5509 Record).

A line dedicated to ASP services should not be entered as part of a Series Completion Group. When PVN ALW is set to "Y" and SERHLN is entered, then the DIGIT ANALYSIS SELECTOR on the corresponding LCC form (5306 Record) cannot be equal to PVN DAS on the OFCOPT form (5509). Likewise, DIGIT ANALYSIS SELECTOR should not be equal to a DAS equivalent in functionality to the PVN DAS (i.e., a virtual ASP DAS).

4.25 SCD SCRNING

Description: This field is set to "Y" by Recent Change if at least one carrier has requested SCD (Selective Carrier Denial) Screening for this line. SCD Screening is a function of the SCD feature.

Software Release: 5E5 and later

4.26 CLSS

Description: Does this line subscribe to Calling Line Side Supervision? If "Y" is entered, the calling party will detect a battery reversal upon called party answer, and another battery reversal (returning to normal state) upon called party disconnect. This field is used by the CLSS (Calling Line Side Supervision) feature. CLSS is a Secured Feature, and must be purchased before it can be assigned.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

FEATURE ID 63 on the SFSYS form must be set to "S" before CLSS can be set to "Y".

If CLSS is set to "Y", and the LCC/RAX is defined on an LCC form where CLASS OF SERVICE is "INDIV" or "PBX", which qualifies the line for use of LASS GA (Generally Available) features, then the MLHLN form must have AC ALW, AR ALW, COT ALW and PCP ALW all set to "N" since lines subscribing to CLSS are not compatible with LASS GA features.

If CLSS is set to "Y", this requires that LCC/RAX be defined on an LCC form where CLASS OF SERVICE is "INDIV", "PBX" or "HOTPBX".

When CLSS is Y:

- OE TYPE and NUMBER must be entered
- BUSY MONITOR must be "N"
- SHARED must be "N"
- BRCS must be "N"
- AC ALW, AR ALW, COT ALW, and PCP ALW must be blank or "N"

4.27 MCLD DEACT

Description: Is MCLD (Modified Calling Line Disconnect Procedure for Fraud Protection) deactivated for this line when it is active on this SM?

The MCLD feature is enabled by setting FID 517 to "S" on the FOSYS form (5713-2 Record).

When MCLD is enabled and MCLD DEACT is set to "N", this line will receive Permanent Signal Treatment following expiration of the disconnect timer. This will force the line to go back onhook before originating another call. When MCLD is enabled and MCLD DEACT is set to "Y", this line will receive dialtone following expiration of the disconnect timer.

The MCLD feature applies only to analog lines. For more information, see Division 2, Section 4C.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If OE and TYPE/NUMBER have not been entered, then MCLD DEACT must be "N".

4.28 BLK 1PLUS

Description: Enter the type of blocking on a line if the office has the 1+ Blocking / 1+ split Blocking special

feature.

Software Release: 5E7 and later

Required Field.

Default: NONE

Valid Entries:

Valid BLK 1PLUS Entries	
Entry	Definition
FULL	Block all 1+ dialing
SPLIT	Block FGD CAC 1+ if the carrier dialed is not the pre-subscribed carrier.
NONE	No blocking for 1+ on the line

Data Rules:

If OE TYPE and NUMBER are not entered, BLK 1PLUS must be "NONE".

If BLK 1PLUS is set to either "FULL" or "SPLIT", the LCC and RAX fields must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV", "PBX", "HOTPBX", "HOTMOTL", "COIN", "ATND", "ISDN", "ISATND", or "SATSTLN".

4.29 LONG DST DR

Description: Is distinctive ringing supplied for long distance calls?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E8 and later, the Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured Feature that must be purchased by the office before the LONG DST DR field can be changed from its default value on either the LINE, MLHLN, or DSLUSR forms. Before "Y" can be entered the ACT field for SFID 91 set to "Y" on the SFSYS form (5713-1 Record).

USTWC

The fields in Section 4.30 through Section 4.32 define Usage Sensitive Three Way Calling Special Features and options.

4.30 USTWC ALW

Description: Is Usage-Sensitive Three-Way Calling allowed?

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- CLSS must be "N".

- NO DIAL must be "N".
- SHARED must be "N".
- the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV" or "PBX".

4.31 SUBSCR USTWC

Description: Is this line subscribed to USTWC (Usage Sensitive Three-Way Calling)? This field supports Spontaneous USTWC feature, which is a secured feature (SFID 156). For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- CLSS must be "N".
- NO DIAL must be "N".
- SHARED must be "N".

If the LINE and/or MLHLN forms have SUBSCR USTWC set to "Y" the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "INDIV", "4WINDIV" or "PBX".

4.32 USTWC ALW XFER

Description: Allow Usage Sensitive Three Way Calling with Call Transfer? This field supports the Per-Use Three Way Calling with Call Transfer feature. This feature is a secured feature. For more information, refer to Division 2, Section 4A577.

Software Release: 5E15 and later

Default: N

Valid Entries: Y, N

Data Rules:

When USTWC ALW XFER is "Y", USTWC ALW or SUBSCR USTWC must be "Y".

When USTWC ALW XFER is "Y", ACT field must be "Y" for SFID 577 on the SFSYS form (5713-1 Record).

4.33 LRN INDEX

Description: Enter the index into the LRNINDEX form (5328 Record) for Local Number Portability. LRNs are used to route DN's that have been ported into the office from other switches. An LRN uniquely identifies an

office and rate center. This field supports the Local Number Portability secured feature (SFID 174). For more information concerning this feature, see Division 2, Section 4A174.

Software Release: 5E11 and later

Valid Entries: 1 - 127

Data Rules:

When a Multiline Hunt Group Terminal is assigned on an MLHLN form with LRN INDEX entered, the LRN INDEX must also be entered on the LRNINDEX form (5328 Record).

4.34 NON COND TRIG

Description: The NON COND TRIG field is used to indicate whether or not a call to this DN requires a non-conditional query of the SCP (Service Control Point) prior to routing the call. This is a no change field.

Software Release: 5E11 and later

ADVANCED SERVICES PLATFORM

The following fields (Section 4.35 - Section 4.36) were added to accommodate the ASP Inhibiting of Originating Busy/No Answer Triggers with Extended Ringing feature. This is a secured feature with SFID 210. For more information on this feature, see Division 2, Section 4A210.

4.35 OFC OBL INH

Description: The OFC OBL INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by individual lines. It indicates whether the ASP Office Originating Busy Line Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating Busy Line Trigger is inhibited.

This field was added for the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature. For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2, Section 4A210.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the inhibiting feature has not been purchased, OFC OBL INH must be "N".

4.36 OFC ONA INH

Description: The OFC ONA INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by individual lines. It indicates whether the ASP Office Originating No Answer Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating No Answer Office Trigger is inhibited.

This field was added for the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature. For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2,

Section 4A210.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the inhibiting feature has not been purchased, OFC ONA INH must be "N".

4.37 URT FCD BLK

Description: Should all Unrestricted FCD Codes be blocked from this TN?

NOTE: On the LINE, MLHLN, and DSLUSR forms this URT FCD BLK field is intended for use on individual or line attendant lines only.

This field was added for the ASP Unrestricted FCD Trigger feature. For more information, see Division 2, Section 4A572.

Software Release: 5E15 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The secured feature ASP Unrestricted FCD Code Triggers must be purchased before URT FCD BLK can be changed to "Y" on the MLHLN form, therefore the ACT field for SFID 572 on the SFSYS form must be "Y".

For 5E15 and later, when the MLHLN form has "Y" entered in the URT FCD BLK field, a corresponding LCC form must have "INDIV" or "ATND" entered in the CLASS OF SERVICE field. LCC corresponds with a MLHLN form when the LCC and RAX fields match.

For 5E15 and later, when the MLHLN forms have "Y" entered in the URT FCD BLK field, a corresponding LNBLKCOD form cannot be entered. LNBLKCOD corresponds with MLHLN form when the TNs match.

4.38 BLK LN CODE

Description: This is a text only field that indicates if a LNBLKCOD form exists for this TN.

This field was added for the ASP Unrestricted FCD Trigger feature. For more information on, see Division 2, Section 4A572.

Software Release: 5E15 and later

4.39 INHIBIT DEL

Description: Should the deletion of this line be inhibited?

Software Release: 5E13 and later

Required Field.

Default: N

NOTE: INHIBIT DEL must be set to "N" before deletion is line allowed.

Valid Entries: Y, N

Data Rules:

When INHIBIT DEL field is "Y", OE or RTIDX must be entered.

4.40 CONTEXT ID

Description: This field is used to indicate whether or not a multiline hunt group is set to "NATIVE", "RESOLD", or "UNBUNDLED" for the AMA Recording for Resale and Unbundling feature. For more information on this feature, see Division 2, Section 4A321.

Software Release: 5E12 and later

Required Field.

Default:

For 5E12 and 5E13: N

For 5E14: NATIVE

Valid Entries:

Valid CONTEXT ID Entries		
Entry for 5E12, 5E13	Entry for 5E14 and later	Description
N	NATIVE	Line owned by ILEC/Switch Owner with no additional recording.
R	RESOLD	Unbundled Line with Service Provider and Timing Module
U	UNBUNDLED	Resale Line with Service Provider and NO Timing Module

Data Rules:

For 5E12 and later:

When the CONTEXT ID field is set to "R" or "RESOLD" or, "U" or "UNBUNDLED" on the MLHLN form, the ACT field for SFID 321 on the SFSYS form (5713-1 Record) must also be set to "Y".

When the CONTEXT ID field is set to "R" or "RESOLD" or, "U" or "UNBUNDLED" on the MLHLN form, there must be an LCC form (5306 Record) where the RAX and LCC has the CLASS OF SERVICE set to one of the following:

ATND

CHGCALL

COIN

HOTMOTL

HOTPBX

INDIV

ISDN

ISATND

PBX

TWOPTY

2PTY

4PFS

4PSS

4WINDIV

5PTY

8PSS

10PTY

USAGE SENSITIVE SIX-WAY CALLING

The USSWC ALW field was added to accommodate the Usage Sensitive Six-Way Calling feature. This is a secured feature with SFID 553. For more information on this feature, see Division 2, Section 4A553.

4.41 USSWC ALW

Description: Should Usage Sensitive Six-Way Calling be allowed? The USSWC ALW field verifies whether or not the Usage Sensitive Six-Way Calling feature is allowed for a specified line. No entry is required; this is an optional field. For more information on this feature, see Division 2, Section 4A553.

Software Release: 5E15 and later

Default: Blank

Valid Entries: Blank, or enter Y or N

Data Rules:

When USSWC ALW is "Y":

CLSS must be "N"

NO DIAL must be "N"

SHARED must be "N"

On-Hook Data Transmission

4.42 FSK OSI

Description: This field is used to indicate the per-line control of sending the OSI (Open Signaling Interval).

Software Release: 5E15 and later

Valid Entries: Y, N, or blank

Data Rules:

For 5E15 and later:

When GST is "Y", FSK OSI must be "N".

When FSK OSI is "Y", the LCC and RAX on the LCC form (5306 Record) must have CLASS OF SERVICE equal to "ATND", "INDIV", or "PBX"..

When FSK OSI is set to "Y", the ACT field for SFID 613 on the SFSYS form (5713-1 Record) must also be set to "Y".

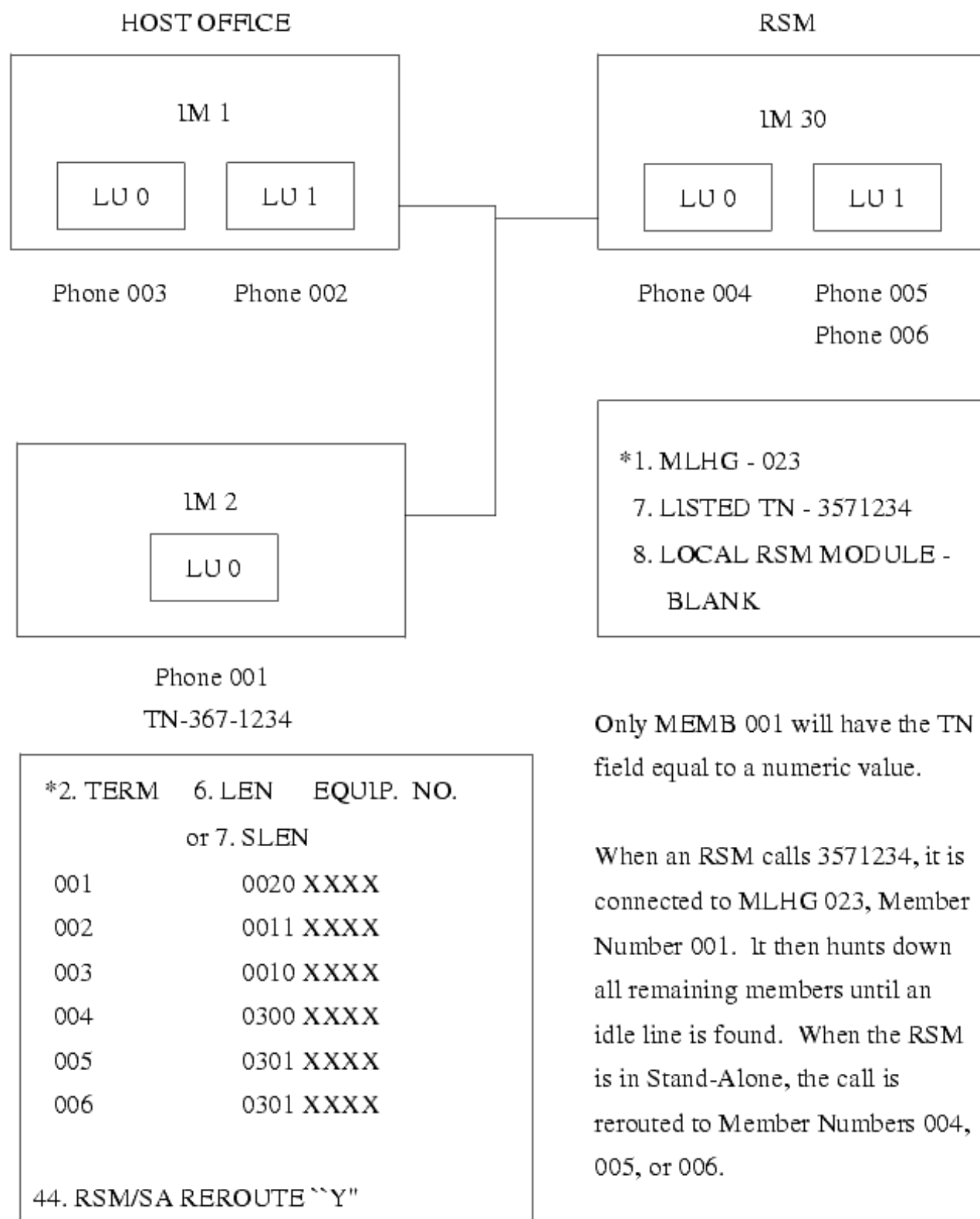


Figure 1 PARTY VALUE/MULTI-FREQUENCY RINGING FEATURE

MLHLN PTY	FREQUENCY CLASS ON IMINFO FORM		
	HARMONIC HAR	SYNCHROMONIC SYN	DECIMONIC DEC
1,6	33.3	30	30
2,7	50	42	40
3,8	66.6	54	50
4,9	16.6	66	60
5,0 (0 IS PTY10)	25	20	20

PTY values 1-5 are ring-side frequencies 1-5.

PTY values 6-9,0 are tip-side frequencies 1-5.

PARTY VALUE LINE/MLHLN PTY	FREQUENCY CLASS VALUES FOR ISLC-96 LINES		
	HARMONIC	SYNCHROMONIC	DECIMONIC
1	25	30	30
2	33.3	42	40
3	50	54	50
4	16.7	20	20

NOTE: Party values 1-4 are ring-side frequencies and are provided based on an option switch of the Frequency Selective Ringing (FSR) Channel Unit.

Figure 2 TYPICAL REMOTE MODULE/SA REROUTE FOR MLHG MEMBERS

```

mlhln                                5ESS Switch
SCREEN 1 OF 5                        OFFICE DATA ADMINISTRATION
(5111-1/2/3)                        MULTILINE HUNT GROUP TERMINAL

*1. MLHG      _____          15. UNBUNDLED N      25. SLUS      N
*2. TERM      _____          26. DTLBILL N
#3. RAX        _____          27. TRAFFIC N
#4. LCC        _____          16. TTC      N
  5. OE        _ _____          17. BRCS      N
  8. TN        _____          18. EL      N
  9. PTY       I _____          19. FLS      N
10. MFRI       N _____          20. SUSO      N
11. CIDIAL     ALLOW _____      21. DNY ROH N
12. PIC        _____          22. PALIT      N
13. PTC        _____          23. PSLIM      N
14. PLC        _____          24. COMPL      N

```

```

mlhln                                5ESS Switch
SCREEN 2 OF 5                        OFFICE DATA ADMINISTRATION
(5111-1/2/3)                        MULTILINE HUNT GROUP TERMINAL

TERM. FEATURES                      MISC. FEATURES
28. ICP      N                      37. SERHLN      _____
29. DNY BV   N                      BCK LNK       _____

```

30. NONHUNT N	39. ALT BILL TN _____
31. TRC N	40. NO DIAL N
EQUIPMENT	41. HOT LINE TN _____
32. GST N	42. SM REROUTE N
33. TSTLINE N	43. ANI7 N
34. GNDREF N	44. TR303 NAILUP N
35. RANGEX NONE	45. BUSY MONITOR N
36. LNEQ N	46. ATT MLHG _____
	47. RBV TGN _____

```

mlhln                      5ESS Switch
SCREEN 3 OF 5              OFFICE DATA ADMINISTRATION
(5111-1/2/3)              MULTILINE HUNT GROUP TERMINAL

```

BASIC 911 ESB	58. SHARED N
48. RINGBACK N	59. PRIVACY _
49. STATMON N	60. OVRD DNY XFER N
50. TONDET N	

SCAN & DIST. POINTS

51. MESG REGISTER	_____
52. SLEEVE LEAD CKT	_____
53. MAKE BUSY KEY	_____
54. RND MKB	_____
55. STOP HUNT KEY	_____
56. CARRIER GRP ALM	_____
57. RMK	_____

```

mlhln                      5ESS Switch
SCREEN 4 OF 5              OFFICE DATA ADMINISTRATION
(5111-1/2/3)              MULTILINE HUNT GROUP TERMINAL

```

LASS FEATURES	4-WIRE SPECIFICATIONS	USTWC
61. AC ALW _	72. ROUTINE RINGING _____	82. USTWC ALW _
62. AR ALW _	73. PRIORITY RINGING _____	83. SUBSCR USTWC N
63. COT ALW _	74. AUDIBLE RINGING _	
64. PCP ALW _	75. INC. START SIGNAL _____	84. LRN INDEX _____
65. ALT LANG N	76. CONFERENCE BRIDGE _	NON COND TRIG N
LTSB	SCD SCRNING _	
66. ASSOC OE _ _____	78. CLSS N	

LEAD PORT _	79. MCLD DEACT N
IALT _	80. BLK 1PLUS NONE
71. MAN EXCL N	81. LONG DST DR N

mlhln	5ESS Switch	—
SCREEN 5 OF 5	OFFICE DATA ADMINISTRATION	
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL	

ASP

86. OFC OBL INH N

87. OFC ONA INH N

MONITORED TN _

89. INHIBIT DEL N

90. CONTEXT ID NATIVE

Figure 3 SAMPLE MLHLN FORM 5E14 SOFTWARE RELEASE

mlhln	5ESS Switch	
SCREEN 1 OF 5	OFFICE DATA ADMINISTRATION	
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL	

*1. MLHG	_____	15. UNBUNDLED N	25. SLUS N
*2. TERM	_____		26. DTLBILL N
#3. RAX	_____	ORIG. FEATURES	27. TRAFFIC N
#4. LCC	_____	16. TTC N	
5. OE	— _____	17. BRCS N	
8. TN	_____	18. EL N	
9. PTY	I	19. FLS N	
10. MFRI	N	20. SUSO N	
11. CIDIAL	ALLOW	21. DNY ROH N	
12. PIC	_____	22. PALIT N	
13. PTC	_____	23. PSLIM N	
14. PLC	_____	24. COMPL N	

```

mlhln                      5ESS Switch
SCREEN 2 OF 5              OFFICE DATA ADMINISTRATION
(5111-1/2/3)              MULTILINE HUNT GROUP TERMINAL

```

```

TERM. FEATURES              MISC. FEATURES
28. ICP      N              37. SERHLN      _____
29. DNY BV   N              BCK LNK      _____
30. NONHUNT  N              39. ALT BILL TN _____
31. TRC      N              40. NO DIAL   N
    EQUIPMENT              41. HOT LINE TN _____
32. GST      N              42. SM REROUTE N
33. TSTLINE  N              43. ANI7      N
34. GNDREF   N              44. TR303 NAILUP N
35. RANGEX   NONE          45. BUSY MONITOR N
36. LNEQ     N              46. ATT MLHG   _____
                          47. RBV TGN     _____

```

```

mlhln                      5ESS Switch
SCREEN 3 OF 5              OFFICE DATA ADMINISTRATION
(5111-1/2/3)              MULTILINE HUNT GROUP TERMINAL

```

```

BASIC 911 ESB              58. RMK      _____
48. RINGBCK N              59. SHARED      N
49. STATMON N              60. PRIVACY     _
50. TONDET  N              61. OVRD DNY XFER N
    SCAN & DIST. POINTS
51. MSG REGISTER _____
52. SLEEVE LEAD CKT _____
53. MAKE BUSY KEY _____
54. RND MKB   _____
55. STOP HUNT KEY _____
56. DC MKB    N
57. CARRIER GRP ALM _____

```

```

mlhln                      5ESS Switch
SCREEN 4 OF 5              OFFICE DATA ADMINISTRATION
(5111-1/2/3)              MULTILINE HUNT GROUP TERMINAL

```

```

LASS FEATURES              4-WIRE SPECIFICATIONS              USTWC
62. AC ALW   _              73. ROUTINE RINGING _____              83. USTWC ALW   _
63. AR ALW   _              74. PRIORITY RINGING _____              84. SUBSCR USTWC N
64. COT ALW  _              75. AUDIBLE RINGING  _              85. USTWC ALW XFER N
65. PCP ALW  _              76. INC. START SIGNAL _____
66. ALT LANG N              77. CONFERENCE BRIDGE _              86. LRN INDEX  _

```


LTSB	SCD SCRNING _	NON COND TRIG N
67. ASSOC OE _	79. CLSS N	
LEAD PORT _	80. MCLD DEACT N	
IALT _	81. BLK 1PLUS NONE	
72. MAN EXCL N	82. LONG DST DR N	

mlhln	5ESS Switch	_
SCREEN 5 OF 5	OFFICE DATA ADMINISTRATION	
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL	

ASP

88. OFC OBL INH N

89. OFC ONA INH N

90. URT FCD BLK N

BLK LN CODE _

MONITORED TN _

93. INHIBIT DEL N

94. CONTEXT ID NATIVE

USAGE SENSITIVE SIX WAY CALLING

95. USSWC ALW _

Figure 4 SAMPLE MLHLN FORM 5E15 SOFTWARE RELEASE

mlhln	5ESS Switch	
SCREEN 1 OF 5	OFFICE DATA ADMINISTRATION	
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL	

*1. MLHG _	15. UNBUNDLED N	25. SLUS N
*2. TERM _		26. DTLBILL N
#3. RAX _	ORIG. FEATURES	27. TRAFFIC N
#4. LCC _	16. TTC N	
5. OE _	17. BRCS N	
8. TN _	18. EL N	
9. PTY I	19. FLS N	
10. MFRI N	20. SUSO N	
11. CIDIAL ALLOW	21. DNY ROH N	
12. PIC _	22. PALIT N	
13. PTC _	23. PSLIM N	
14. PLC _	24. COMPL N	

mlhln	5ESS Switch

SCREEN 2 OF 5
(5111-1/2/3)

OFFICE DATA ADMINISTRATION
MULTILINE HUNT GROUP TERMINAL

TERM. FEATURES

28. ICP N
29. DNY BV N
30. NONHUNT N
31. TRC N
EQUIPMENT
32. GST N
33. TSTLINE N
34. GNDREF N
35. RANGEX NONE
36. LNEQ N

MISC. FEATURES

37. SERHLN _____
BCK LNK _____
39. ALT BILL TN _____
40. NO DIAL N
41. HOT LINE TN _____
42. SM REROUTE N
43. ANI7 N
44. TR303 NAILUP N
45. BUSY MONITOR N
46. ATT MLHG _____
47. RBV TGN _____

mlhln

5ESS Switch

SCREEN 3 OF 5
(5111-1/2/3)

OFFICE DATA ADMINISTRATION
MULTILINE HUNT GROUP TERMINAL

BASIC 911 ESB

48. RINGBCK N
49. STATMON N
50. TONDET N

58. RMK _____
59. SHARED N
60. PRIVACY _
61. OVRD DNY XFER N

SCAN & DIST. POINTS

51. MSG REGISTER _____
52. SLEEVE LEAD CKT _____
53. MAKE BUSY KEY _____
54. RND MKB _____
55. STOP HUNT KEY _____
56. DC MKB N
57. CARRIER GRP ALM _____

mlhln

5ESS Switch

SCREEN 4 OF 5
(5111-1/2/3)

OFFICE DATA ADMINISTRATION
MULTILINE HUNT GROUP TERMINAL

LASS FEATURES

62. AC ALW _
63. AR ALW _
64. COT ALW _
65. PCP ALW _
66. ALT LANG N

4-WIRE SPECIFICATIONS

73. ROUTINE RINGING _____
74. PRIORITY RINGING _____
75. AUDIBLE RINGING _
76. INC. START SIGNAL _____
77. CONFERENCE BRIDGE _

USTWC

83. USTWC ALW _
84. SUBSCR USTWC N
85. USTWC ALW XFER N
86. LRN INDEX _

LTSB	SCD SCRNING _	NON COND TRIG N
67. ASSOC OE _	79. CLSS N	
LEAD PORT _	80. MCLD DEACT N	
IALT _	81. BLK 1PLUS NONE	
72. MAN EXCL N	82. LONG DST DR N	

mlhln	5ESS Switch _
SCREEN 5 OF 5	OFFICE DATA ADMINISTRATION
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL

ASP	ON-HOOK DATA TRANSMISSION
88. OFC OBL INH N	97. FSK OSI _
89. OFC ONA INH N	
90. URT FCD BLK N	
BLK LN CODE _	

MONITORED TN _	
93. INHIBIT DEL N	
94. CONTEXT ID NATIVE	

USAGE SENSITIVE SIX WAY CALLING

95. USSWC ALW _

Figure 5 SAMPLE MLHLN FORM 5E16(1) SOFTWARE RELEASES

mlhln	5ESS Switch
SCREEN 1 OF 5	OFFICE DATA ADMINISTRATION
(5111-1/2/3)	MULTILINE HUNT GROUP TERMINAL

*1. MLHG _	15. UNBUNDLED N	25. COMPL N
*2. TERM _	16. CODE RESTRICT _	26. SLUS N
#3. RAX _		27. DTLBILL N
#4. LCC _	ORIG. FEATURES	28. TRAFFIC N
5. OE _	17. TTC N	
8. TN _	18. BRCS N	
9. PTY I	19. EL N	
10. MFRI N	20. FLS N	
11. CIDIAL ALLOW	21. SUSO N	
12. PIC _	22. DNY ROH N	
13. PTC _	23. PALIT N	
14. PLC _	24. PSLIM N	

mlhln	5ESS Switch
SCREEN 2 OF 5	OFFICE DATA ADMINISTRATION

(5111-1/2/3)

MULTILINE HUNT GROUP TERMINAL

TERM. FEATURES

29. ICP N
 30. DNY BV N
 31. NONHUNT N
 32. TRC N
 EQUIPMENT
 33. GST N
 34. TSTLINE N
 35. GNDREF N
 36. RANGEX NONE
 37. LNEQ N

MISC. FEATURES

38. SERHLN _____
 BCK LNK _____
 40. ALT BILL TN _____
 41. NO DIAL N
 42. HOT LINE TN _____
 43. SM REROUTE N
 44. ANI7 N
 45. TR303 NAILUP N
 46. BUSY MONITOR N
 47. ATT MLHG _____
 48. RBV TGN _____

mlhln

5ESS Switch

SCREEN 3 OF 5
 (5111-1/2/3)

OFFICE DATA ADMINISTRATION
 MULTILINE HUNT GROUP TERMINAL

BASIC 911 ESB

49. RINGBCK N
 50. STATMON N
 51. TONDET N

59. RMK _____
 60. SHARED N
 61. PRIVACY _
 62. OVRD DNY XFER N

SCAN & DIST. POINTS

52. MESG REGISTER _____
 53. SLEEVE LEAD CKT _____
 54. MAKE BUSY KEY _____
 55. RND MKB _____
 56. STOP HUNT KEY _____
 57. DC MKB N
 58. CARRIER GRP ALM _____

mlhln

5ESS Switch

SCREEN 4 OF 5
 (5111-1/2/3)

OFFICE DATA ADMINISTRATION
 MULTILINE HUNT GROUP TERMINAL

LASS FEATURES

63. AC ALW _
 64. AR ALW _
 65. COT ALW _
 66. PCP ALW _
 67. ALT LANG N

4-WIRE SPECIFICATIONS

74. ROUTINE RINGING _____
 75. PRIORITY RINGING _____
 76. AUDIBLE RINGING _
 77. INC. START SIGNAL _____
 78. CONFERENCE BRIDGE _

USTWC

84. USTWC ALW _
 85. SUBSCR USTWC N
 86. USTWC ALW XFER N
 87. LRN INDEX _

LTSB

68. ASSOC OE _
 LEAD PORT _

SCD SCRNING

80. CLSS N
 81. MCLD DEACT N

NON COND TRIG N

IALT _
73. MAN EXCL N
82. BLK 1PLUS NONE
83. LONG DST DR N

mlhln
SCREEN 5 OF 5
(5111-1/2/3)

5ESS Switch _
OFFICE DATA ADMINISTRATION
MULTILINE HUNT GROUP TERMINAL

ASP
89. OFC OBL INH N
90. OFC ONA INH N
91. URT FCD BLK N
BLK LN CODE _

ON-HOOK DATA TRANSMISSION
98. FSK OSI _

MONITORED TN _
94. INHIBIT DEL N
95. CONTEXT ID NATIVE

USAGE SENSITIVE SIX WAY CALLING
96. USSWC ALW _

Figure 6 SAMPLE MLHLN FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 1L: 5112 RECORD FEATURE ASSIGNMENT TELEPHONE NUMBER FORM - LINEFA

1. GENERAL

The 5112 Record is available with 5E2 and later Software Releases, and defines BRCS (Business and Residence Custom Services) Features to a particular customer Telephone Number.

The LINEFA form assigns up to 48 BRCS Features to a specific Telephone Number. Each feature name can be either a unique feature name or CLUSTER NAME. CLUSTER NAMES must be defined on the CLUSTER form (5600 Record) where they are expanded into 2 - 16 unique feature names. The total number of unique feature names on this form and associated CLUSTER forms, must not exceed 48.

With 5E6 and later Software Releases, Speed Call (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a line can be assigned an IDP feature with a Speed Call feature which counts as one feature for that line. However, after a retrofit from the 5E5 Software Release to the 5E6 Software Release, this line may have as many as three features: an IDP feature and up to two SC (Speed Call) features depending on whether or not one-digit or two-digit Speed Call has been assigned.

This may raise the count of Terminal features for that line above the maximum of thirty features. A line only may be assigned up to thirty Terminal features, therefore, use discretion with a LINEFA form that has more than twenty-eight Terminal features (IDP feature included) at the time of retrofit. If the feature count is greater than thirty after retrofit, the SC1 (one-digit Speed Call) feature, if it has been assigned, will be canceled. If SC1 has not been assigned, then SC2 (two-digit Speed Call) will be canceled. If both features have been assigned to this line, both may be canceled.

Wild Card feature Names of the format /AA* (AA equal to alphabetic) are not allowed to be assigned to a Telephone Number on the LINEFA form.

1.1 Recent Change View

The corresponding Recent Change Views for this form are 1.8, 1.11, and 1.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * TN

Description: Enter the Telephone Number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

The TN value must be assigned on the LINE form (5109-1/2/3 Record). The TN defined on the LINE form must have its associated BRCS attribute set to "Y", and must be assigned to a LEN or SLEN.

The /LIRDAMU, /LIRDNMU, and /LIRMDU preconstructed features which were created to support the Calling Name Delivery feature were not available for the 5E7 Software Release.

See Div 5, Sec 1C, 1. General, for features allowed on SHTN secondary only lines.

If TNs on this form are assigned HI (Home Intercom) feature(s) on the LINEFA, BFG, or an associated CLUSTR form, then the TN must also be defined on the LINE form (HI feature can be assigned only to ANALOG lines).

For 5E7 and later, if TNs have a Forward to Telephone Number assignment on the CFWLPA form or CFWFD form's default parameters equal to the same TN, there must be an IDP feature assigned to the TN for the Call Forwarding feature to allow forwarding to itself.

For 5E8 and later, TNs assigned an Advanced Service Interface feature via a LINEFA form with R set to "Y", indicating that Remote Access Services (RAS) are desired, and the FEATURE is defined on a CFWFD form; the corresponding CFWFD form must have an ACT TYPE of "CDDN", "CDDNC", "CDDNCA", "CDCA1A" or "CODE" and a DACT TYPE of "CODE".

For 5E10 and later, when TN(s) appear on the LINEFA form with an ASP feature either assigned on the LINEFA or corresponding CLUSTR form, the ASP feature is defined on a ASPFD or ASPLPA form with OHD TRIG NBR entered. The TN is either defined on a LINE form or on a DSLUSR form as CKT TN where DSL CLS on the corresponding DSL form is "STD". Therefore, the only other BRCS features allowed to be assigned to the line are features defined on the ASPFD form with CONTROL equal to "TERM" and those defined on the following forms where the appropriate secured feature(s) has been purchased and corresponding SFID(s) are set to "Y" on the SFSYS form:

- The Advanced Service Platform (ASP) BRCS/OHD Interworking SFID 137 ACT equals "Y"
 - CFWFD with FWD COND equals "BUSY", "IDLE", "BOTH", "DBSY", "DIDL" or "DBTH"
 - CWTFD with INVOKE equals "TERM"
 - DISPFD
 - LIDFD
 - LSACFD
 - LSARFD
 - LSCAFD
 - LSCARFD
 - LSCFFD
 - LSCOTFD
 - LSCRFD
 - LSDAFD
 - MWFD with CONTROL not equal to "CODEALT"

- Additional ASP OHD Interactions with Account Code and CPN/BN SFID 150 ACT equals "Y"
 - ACCTFD
 - CPNBNFD
 - RNDFD
- ASP Network Element Services Signaling (NESS) SFID 185 ACT equals "Y"
 - ASPFD with CONTROL equals "NESS"
- ASP BRCS/OHD Interworking Extensions SFID 226 ACT equals "Y"
 - HIFD
 - MSFD
 - PUOFD with INITIATE equals "IPRDQ"
 - PUTFD with FEATURE FUNCTION equals "CALPU"
 - SCFD

For 5E12 and later, TNs on different LINEFA forms can not be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the LINEFA form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, if the TN(s) on the LINEFA form are assigned a Call Pickup Originating feature with DPU TN assignment, defined on the PULPA form or the BFG form, the Call Pickup Originating feature initiated by Predesignated Pickup Group, Directed Pickup, Code Calling or Loud Speaker Paging does not need such an assignment.

For 5E16 and later, if the TN(s) are assigned to the Direct Call Transfer to Voice Mail feature on either the LINEFA form, BFG form, or an associated CLUSTR form, then the ACT field for SFID 586 must be set to "Y" on the SFSYS form.

2.3 BFGN

Description: Enter the BFGN (BRCS Feature Grouping Name).

Refer to the BRCS Feature Description (Division 2, Section 1U) for the restrictions concerning BFG Names.

Software Release: 5E4(2) and later

Valid Entries: 1 - 7 alphanumeric characters.

The optional SUFFIX is a number between
1 - 9.

Data Rules:

The BFGN entered must be defined on a BFG form (5625 Record) as either a SELECTION BFGN or an UNIQUE BFGN.

If a SELECTION BFGN without a SUFFIX is entered, in the BFGN field on the LINEFA form, the best fit selection process is attempted.

If a specific SELECTION BFGN and SUFFIX is entered in the BFGN field on this form and the LINEFA feature list is empty, all of the features defined by that SELECTION BFGN and SUFFIX combination will be assigned to the subscriber's line. If the LINEFA feature list contains features that are not defined as part of the BFGN and SUFFIX features, these undefined features will be assigned to the line outside of the BFGN.

If a UNIQUE BFGN is entered in the BFGN field and the LINEFA feature list is empty, all of the features defined by that UNIQUE BFGN will be assigned to the subscriber's line. If the LINEFA feature list contains features that are not defined as part of the UNIQUE BFGN features, these undefined features will be assigned to the outside of the BFGN.

Features assigned to subscribers can be a combination of features defined by a BFGN and the features indicated on the LINEFA form. If a specific SELECTION BFGN and SUFFIX or UNIQUE BFGN is entered, it is not necessary to enter features on the LINEFA. If the BFGN entered is a UNIQUE BFGN, a SUFFIX cannot be entered.

Subscribers that have any of the following BRCS Features with the AC (Authorization Code) field set to "Y" on the LINEFA form, will always fail to select a BFG with the matching feature. This use of the Authorization Code is not supported by the BFG capability.

- Account Code
- Attendant (ACVT)
- Authorization Code
- Distinctive Ringing
- Individualized Dialing
- Message Detail Recording
- Multi-Way Call
- Terminal Group and Station Restriction

For 5E14 and later, when BFGN is known and it has a CF (Call Forwarding) feature assigned in the FEATURE LIST on the BFG form where FCCS OPT on either the CFWFD form or the CFWLPA form for the corresponding CF feature is "Y", the following must be true:

SHARED must be "N"

SERHLN must be unknown

ASSOC OE must be unknown

this TN must be defined on the LINE form

LINE CLASS CODE and TERMINATING TREATMENT must both be "INDIV" on the LCC form

this TN must not be defined on the MLHLN form

FEATURE LIST

Fields Section 2.4 -Section 2.8 refer to the Feature List, consisting of up to 48 Feature/Cluster names with the associated initial Activity Status, Master Override Status, Authorization Code and Remote Access Services feature settings.

2.4 FEATURE

Description: Enter the Feature or Cluster name.

Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

If the feature name used in one of the 48-Feature List rows is a cluster name that is defined on the CLUSTER input form, then fields A and M should be set to "Y" to pass level 1 and 2 error checks. The actual activity status for each feature name assigned to the CLUSTER name is defined on the CLUSTER input form and Master Override Status will be initialized to "Y".

If CKT TNs on DSLUSR form and/or TNs on LINE forms are assigned SC (Speed Call) feature(s) on either the LINEFA, BFG or an associated CLUSTER form, then the TN must also be defined on the LINE or DSLUSR form with an LCC/RAX value that corresponds to a CLASS OF SERVICE of "4WINDIV", "INDIV", "PBX", "ATND", "TWOPTY", "HOTMOTL", "MODEM", "ISDN", "ISATND" on the LCC form.

For 5E12 and later, the following assignments are not premitted if the LINEFA form(s) contain features that can only be assigned to DSLUSR form CKT TN(s) where the corresponding DSL form (DSLUSR form OE matches the DSL form DSL OE) has a DSL CLS of "STD", and these LINEFA form(s) were defined as a DSLUSR form CKT TN where the corresponding DSL form has a DSL CLS which is not "STD", or as a LINE form TN or as a Secondary Only TN on a SHTN form.

If the features were assigned via a BFG or CLUSTER form then the key to that form is included. See the TG-5 (DSL form attribute DSL CLS) for the types of features that can only be assigned to "STD" DSLs.

For 5E12 and later, the following LINEFA form(s) contain features that can not be assigned to:

- A DSLUSR form CKT TN where the corresponding DSL form DSL CLS is set to "STD" (DSLUSR form OE matches the DSL form DSL OE).
- A Primary analog TN, which is shared with a "STD" DSLUSR. This is a LINE form TN which is also a Key TN and matches the entry in the SHARED LIST ROW 1 TN field on a SHTN form, where TN or MLHG/TERM NBR entries in the SHARED LIST (rows 2 through 32) match a DSLUSR form CKT TN or CKT MLHG/CKT TERM where the DSL CLS on the corresponding DSL form is "STD".
- A Secondary ONLY TN, which is shared with an "STD" DSLUSR. This is a SHTN form Key TN that does not match the entry in the SHARED LIST ROW 1 TN, but where TN or MLHG/TERM NBR entries in the SHARED LIST (rows 1 through 32) match DSLUSR form CKT TN or CKT MLHG/CKT TERM where the

DSL CLS on the corresponding DSL form is "STD".

The form header has the name of the type of form where the match was found with the LINEFA form that was in error. If the features were assigned via a BFG or CLUSTR form, then the key to that form is included. See the TG5 (DSL form, attribute DSL CLS) for the types of features which cannot be assigned to "STD" DSLs or Primary analog TN(s) shared to "STD" DSLs.

For 5E12 and later, if the following LINEFA form(s) contain ISDN Intercom Features (ICMFD form) that cannot be assigned to "STD" DSLs (DSLUSR forms where the DSL CLS is set to "STD" on the corresponding DSL form, DSLUSR form OE matches DSL form DSL OE) unless there is an entry in the EKTS field of "CACH" for the DSLUSR form, the DSLUSR form(s) which these LINEFA form(s) are associated with (LINEFA form TN matches DSLUSR form CKT TN) did not have a value of "CACH" entered in the EKTS field.

If the features were assigned via a BFG or CLUSTR form then the key to that form is included. See the TG-5 (DSL form, attribute DSL CL in Division 5, Section 1HS) for the types of features that cannot be assigned to "STD" DSLs.

For 5E12 and later, if the following LINEFA form(s) contain features that can only be assigned to:

- "STD" DSLUSR forms (DSLUSR forms where the DSL CLS is set to "STD" on the corresponding DSL form, DSL OE matches DSLUSR form DSLUSR OE) or
- Shared analog LINE forms (LINE forms where SHARED is set to "Y" and the TN is also the Key TN on a corresponding SHTN form which is a Primary shared to STD DSLs only).

And these LINEFA forms are defined for lines on:

- DSLUSR forms where the corresponding DSL CLS was not "STD" or
- Shared analog LINE forms (LINE forms where SHARED is set to "Y" and the TN is also the Key TN on a corresponding SHTN form which is a Primary shared to non STD DSLs) or
- LINE forms with SHARED set to "N" or
- Secondary Only TNs on SHTN forms.

The form where the TN match was found is indicated. If the features were assigned via a BFG or CLUSTR form then the key to that form is included. See the TG-5 (DSL form, attribute DSL CLS in Division 5, Section 1H) for the types of features that can ONLY be assigned to "STD" DSLs or Shared analog lines to STD DSLs.

For 5E14 and later, when FEATURE contains a CF (Call Forwarding) feature or a cluster which includes a CF feature in the FEATURE LIST on the CLUSTR form and FCCS OPT on either the CFWFD form or the CFWLPA form for the corresponding CF feature is "Y", the following must be true:

SHARED must be "N"

SERHLN must be unknown

ASSOC OE must be unknown

this TN must be defined on the LINE form

LINE CLASS CODE and TERMINATING TREATMENT must both be "INDIV" on the LCC form
this TN must not be defined on the MLHLN form

2.5 A

Description: Is the BRCS feature initially active? This is the Activity Status.

For new (initial) 5ESS Switch offices built by 5ODA this field is in the initial Activity Status of the given feature assigned to a terminal. For retrofit office runs by 5ODA, this field represents the current or present active/inactive state of the feature.

Valid Entries: Y, N

Data Rules:

If the FEATURE NAME used in the FEATURE LIST is a real feature name (not a cluster name), then the value of the ACTIVITY STATUS for this FEATURE NAME is based on the following conditions:

If the FEATURE NAME is defined on a ACBFD (5616-1 Record) or ARSFD form (5608-1A/1B Record), then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on a CFWFD (5614-1/2 Record), CWTFD (5603-1 Record), DRFD (5606-1 Record), PUOFD (5605-1 Record), PUTFD (5605-2 Record) or TGSFRD form (5607-1/2 Record) with the ACT TYPE equal to "AUTO", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on a TODFD form (5610-1 Record) with the CUSTOMER ACTIVATION equal to "N", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on a IDFD form (5601 Record) with CUST ACT/DEACT IDP equal to "N", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on a MWFD form (5602-1/2 Record) with the ACT/INACT OPTION equal to "ALWACT" or "INACT1CA", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on a CFWFD form with the ACT TYPE equal to "CODE", "CDDN", "CDDNC", or "CDDNCA", then the ACTIVITY STATUS must equal "N".

If the FEATURE NAME is defined on a MWFD form with the ACT/INACT OPTION equal to "ACT1CA", then the ACTIVITY STATUS must equal "N".

If the FEATURE NAME is defined on a CWTFD, DRFD, or TGSFRD form with the ACT TYPE equal to "CODE" and the DACT TYPE equal to "AUTO", then the ACTIVITY STATUS must equal "N".

2.6 M

Description: Is the feature on? This is the Master Override Status.

This is a software switch under the control of the 5ESS Switch owner, that provides the ability to temporarily remove a BRCS feature from a terminal without physically deleting any of the internal data structures associated with the feature.

When the Master Override Status is "Y", the initial (or current) Activity Status, A, determines whether the feature gets control. If the Master Override Status is "N", the terminal will be treated as if the feature were

never assigned.

M should be equivalent to "Y" for all new 5ODA offices and "Y" or "N" for 5ODA retrofit purposes.
Valid Entries: Y, N

2.7 AC

Description: Is the Authorization Code Feature required?

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

If AC is "Y" on this form or on an associated CLUSTER form, then exactly one Authorization Code feature (defined on an ATHFD form) must exist on a LINEFA, BFG, or associated CLUSTER form assigned to the TN.

If AC is "Y", and the corresponding feature is neither an ATH feature defined on an ATHFD form nor a cluster name, then the feature must be entered on the ATHFCOS form (5619-4 Record) for the CSV ATH Group associated with this TN. The CSV ATH Group is specified on the ATHLPA, BFG, or ATHFD form. For 5E6 and later, the feature must also be entered on the ATHFCOS form for the CSD ATH Group.

If the corresponding feature is a CLUSTER Name, then each feature with AC of "Y" on the CLUSTER form (5600 Record) must exist on the ATHFCOS form for the CSV ATH Group, and for 5E6 and later the CSD ATH Group, corresponding to the ATH feature entered on this or the CLUSTER form.

AC must be "N" when an ACSR, ACVT, BCLID, CPNBN, DISP, EDS, HI, Feature Button ICM, LID, MS, or RND feature is assigned in the FEATURE field. If FEATURE is a cluster that contains any of these features, the corresponding AC field(s) must be "N" on the CLUSTER form.

2.8 R

Description: Are RAS (Remote Access Services) requested on the feature?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

The only feature supported by RAS in 5E5 is RACF (Remote Access Call Forwarding). If "Y" is entered, the associated CFWFD form (5614-1/2 Record) must have DACT TYPE set to "CODE", and ACT TYPE set to "CDDN", "CDDNC", CDDNCA", or "CDCA1A"; for 5E6 and later ACT TYPE may also be "CODE".

```

linefa                                5ESS Switch                _
(5112)                                OFFICE DATA ADMINISTRATION
                                     TELEPHONE NUMBER FEATURE ASSIGNMENT

* 1. TN      _____      2. BFGN      _____      _
                                     5. FEATURE LIST
      6.      _____      12.      _____      18.      _____      24.
row FEATURE  A M AC R  FEATURE  A M AC R  FEATURE  A M AC R  FEATURE  A M AC R
01  _____  - - - -  _____  - - - -  _____  - - - -  _____  - - - -

```

02	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
03	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
04	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
05	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
06	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
07	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
08	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
09	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
10	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
11	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-
12	_____	-	-	-	-	_____	-	-	-	-	_____	-	-	-	-

Figure 1 SAMPLE LINEFA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 1M: 5113 RECORD FEATURE ASSIGNMENT MULTI-LINE HUNT GROUP AND TERMINAL NUMBER FORM - MLHLNFA

1. GENERAL

The 5113 Record is available with 5E2 and later Software Releases, and assigns BRCS (Business and Residence Custom Services) features to a particular customer Multi-Line Hunt Group/Terminal combination.

The MLHLNFA form assigns up to 48 BRCS features to a specific MLHG/Terminal combination. Each feature name in the MLHG/Terminal combination can be either a unique feature name or a CLUSTER NAME. CLUSTER NAMES must be defined on the CLUSTER form (5600 Record) where they are expanded into 2 - 16 unique feature names. The total number of unique feature names on this form and associated CLUSTER forms must not exceed 48.

On the MLHLNFA form, an MLHG member may be assigned no more than 30 features from the following list: CFW, LID, EDS, DR, MS, PP, PUT, TGSR. For 5E7 and later, CPNBN, LSCA, LSCF, LSCR, and LSDA features are included. For 5E8 and later, BCLID and RND features are also included.

Wild Card feature Names of the format /AA* (AA equal to alphabetic) are not allowed to be assigned to a MLHG/TERM on the MLHLNFA form.

1.1 Disassociation of Speed Call and IDP Features

With 5E6 and later Software Releases, Speed Call (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a line can be assigned an IDP feature with a Speed Call feature which counts as one feature for that line.

This may raise the count of Terminal features for that line above the maximum of thirty features. A line only may be assigned up to thirty Terminal features, therefore, use discretion with a MLHLNFA form that has more than twenty-eight Terminal features (IDP feature included) at the time of retrofit. If the feature count is greater than thirty after retrofit, the SC1 (one-digit Speed Call) feature, if it has been assigned, will be canceled. If SC1 has not been assigned, then SC2 (two-digit Speed Call) will be canceled. If both features have been assigned to this line, both may be canceled.

1.2 Recent Change View

The corresponding Recent Change Views for this form are 1.8, 1.11 and 1.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group Number.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

Data Rules:

The MLHG Number must be assigned on the MLHLN form (5111-1/2 Record). The MLHG defined on the MLHLN must have its associated BRCS attribute set to "Y" and must be assigned to a LEN or SLEN.

For 5E12 and later, if the MLHG/TERM(s) on the MLHLNFA form are assigned a Call Pickup Originating feature with DPU TN assignment, defined on the PUMPA form or the BFG form, the Call Pickup Originating feature initiated by Code Calling, Loud Speaker Paging, Predesignated Pickup Group or Directed Pickup does not need such an assignment.

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Terminal (Member) Number.

Valid Entries:

1 - 2015

3001 - 3999 (Outdial Terminals Only)

Data Rules:

The TERM Number must be assigned on the MLHLN form (5111-1/2 Record). The TERM assigned on the MLHLN must have its associated BRCS attribute set to "Y" and assigned to a LEN or SLEN.

For 5E8 and later, MLHGs/TERMs assigned an Advanced Service Interface feature via a MLHLNFA form with R set to "Y" indicating that RAS (Remote Access Services) are desired, and the FEATURE is defined on a CFWFD form; the corresponding CFWFD form must have an ACT TYPE of "CDDN", "CDDNC", "CDDNCA", "CDCA1A" or "CODE" and a DACT TYPE of "CODE".

For 5E9(1) and later, when MLHG/TERM on the MLHLNFA form is assigned a Bulk Calling Line Identification Feature (as defined on the BCLIDFD form) and has a TERM entry greater than 1, there must be either a TN entry on the associated MLHLN form or a (CKT) MLHG TN entry on the associated DSLUSR form and the NONHUNT field on the associated form must be "Y".

For 5E10 and later, when the MLHG/TERM(s) appears on the MLHLN form with a matching MLHG/TERM(s) on the MLHLNFA form with an ASP FEATURE or a CLUSTER containing an ASP feature assigned, and on the associated ASPFD or ASPLPA form an OHD TRIG NBR or TA TRIG NBR has been entered, the corresponding NSTRIG form SERVICE ALWD must not be "CSD".

For 5E10 and later, when MLHG/TERM(s) appear on the MLHLNFA form with an ASP feature either assigned on the MLHLNFA or corresponding CLUSTER form, the ASP feature is defined on a ASPFD or ASPLPA form with OHD TRIG NBR entered. The MLHG/TERM is either defined on a MLHLN form or on a DSLUSR form as a CKT MLHG/TERM where DSL CLS on the corresponding DSL form is "STD". Therefore, the only other BRCS features allowed to be assigned to the line are features defined on the ASPFD form with CONTROL equal to "TERM" and those defined on the following forms where the appropriate secured feature(s) has been purchased and corresponding SFID(s) are set to "Y" on the SFSYS form:

- The Advanced Service Platform (ASP) BRCS/OHD Interworking SFID 137 ACT equals "Y"
 - CFWFD with FWD COND equals "BUSY", "IDLE", "BOTH", "DBSY", "DIDL" or "DBTH"
 - CWTFD with INVOKE equals "TERM"
 - DISPFD

- LIDFD
 - LSACFD
 - LSARFD
 - LSCAFD
 - LSCARFD
 - LSCFFD
 - LSCOTFD
 - LSCRFD
 - LSDAFD
 - MWFD with CONTROL not equal to "CODEALT"
- Additional ASP OHD Interactions with Account Code and CPN/BN SFID 150 ACT equals "Y"
 - ACCTFD
 - CPNBNFD
 - RNDFD
 - ASP Network Element Services Signaling (NESS) SFID 185 ACT equals "Y"
 - ASPFD with CONTROL equals "NESS"
 - ASP BRCS/OHD Interworking Extensions SFID 226 ACT equals "Y"
 - HIFD
 - MSFD
 - PUOFD with INITIATE equals "IPRDQ"
 - PUTFD with FEATURE FUNCTION equals "CALPU"
 - SCFD

2.4 BFGN

Description: Enter the BFGN (BRCS Feature Grouping Name).

Refer to the BFG Feature Definition (Division 2, Section 1U) for the restrictions concerning BFG Names.

Software Release: 5E4(2) and later
Valid Entries: 1 - 7 alphanumeric characters.
The optional SUFFIX is a number between
1 - 9.

Data Rules:

The BFGN entered must be defined on a BFG form (5625 Record) as either a SELECTION BFGN or an UNIQUE BFGN.

If a SELECTION BFGN without a SUFFIX is entered in the BFGN field on this form, the best fit selection process is attempted.

If a specific SELECTION BFGN and SUFFIX is entered in the BFGN field on this form and the MLHLNFA feature list is empty, all of the features defined by that SELECTION BFGN and SUFFIX combination will be assigned to the subscriber's line. If the MLHLNFA feature list contains features that are not defined as part of the BFGN and SUFFIX features, these undefined features will be assigned to the line outside of the BFGN.

If a UNIQUE BFGN is entered in the BFGN field on the MLHLNFA form and the MLHLNFA feature list is empty, all of the features defined by that UNIQUE BFGN will be assigned to the subscriber's line. If the MLHLNFA feature list contains features that are not defined as part of the UNIQUE BFGN features, these undefined features will be assigned to the line outside of the BFGN.

Features assigned to subscribers can be a combination of features defined by a BFGN and the features indicated on the MLHLNFA form. If a specific SELECTION BFGN and SUFFIX or UNIQUE BFGN is entered, it is not necessary to enter features on the MLHLNFA. If the BFGN entered is a UNIQUE BFGN, a SUFFIX cannot be entered.

Subscribers that have any of the following BRCS features, with the AC (Authorization Code) field set to "Y" on the MLHLNFA form, will always fail to select a BFG with the matching feature. This use of the Authorization Code is not supported by the BFG capability.

- Account Code
- Attendant (ACVT)
- Authorization Code
- Distinctive Ringing
- Individualized Dialing
- Message Detail Recording
- Multi-Way Call
- Terminal Group and Station Restriction

For 5E14 and later, when BFGN is known and it has a CF (Call Forwarding) feature assigned in the FEATURE LIST on the BFG form, the FCCS OPT field on the CFWFD form for the corresponding CF feature must be "N".

FEATURE LIST

Fields Section 2.5 -Section 2.9 refer to the Feature List, which consists of up to 48 Feature/Cluster names with the associated initial Activity Status, Master Override Status, Authorization Code and Remote Access Services feature settings.

2.5 FEATURE

Description: Enter the feature or cluster name.

Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

If the feature name used in one of the 48 Feature List rows is a cluster name that is defined on the CLUSTER input form, then fields A and M should be set to "Y" to pass level 1 and 2 error checks. The actual Activity Status for each feature name is defined on the CLUSTER input form and Master Override Status will be initialized to "Y".

For 5E14 and later, when FEATURE contains a CF (Call Forwarding) feature or a cluster which includes a CF feature in the FEATURE LIST on the CLUSTER form, the FCCS OPT field on the CFWFD form, for the corresponding CF feature, must be "N".

2.6 A

Description: Is the BRCS feature initially active? This is the Activity Status.

For a new (initial) 5ESS Switch built by ODA, this field is in the initial Activity Status of the given feature assigned to a terminal. For retrofit office runs by ODA, this field represents the current or present active/inactive state of the feature.

Valid Entries: Y, N

Data Rules:

If the FEATURE NAME used in the FEATURE LIST is a real feature name (not a cluster name), then the value of the ACTIVITY STATUS for this FEATURE NAME is based on the following conditions:

If the FEATURE NAME is defined on the ACBFD (5616-1 Record) or ARSFD form (5608-1A/1B Record), then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on the CFWFD (5614-1/2 Record), CWTFD (5603-1 Record), PUOFD (5605-1 Record) or TGSFRD form (5607-1/2 Record) with the ACT TYPE equal to "AUTO", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on the TODFD form (5610-1 Record) with the CUSTOMER ACTIVATION equal to "N", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on the IDFD form (5601 Record) with CUST ACT/DEACT IDP equal to "N", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on the MWFD form (5602-1/2 Record) with the ACT/INACT OPTION equal to "ALWACT" or "INACT1CA", then the ACTIVITY STATUS must equal "Y".

If the FEATURE NAME is defined on the CFWFD form with the ACT TYPE equal to "CODE", "CDDN", "CDDNC", or "CDDNCA", then the ACTIVITY STATUS must equal "N".

If the FEATURE NAME is defined on the MWFD form with the ACT/INACT OPTION equal to "ACT1CA", then the ACTIVITY STATUS must equal "N".

If the FEATURE NAME is defined on the CWTFD or TGSFRD form with the ACT TYPE equal to "CODE" and the DACT TYPE equal to "AUTO", then the ACTIVITY STATUS must equal "N".

2.7 M

Description: Is the feature on? This is the Master Override Status.

This is a software switch under the control of the 5ESS Switch owner, that provides the ability to temporarily remove a BRCS feature from a terminal without physically deleting any of the internal data structures associated with the feature.

When the Master Override Status is "Y", the initial (or current) Activity Status, A, determines whether the feature gets control. If the Master Override Status is "N", the terminal will be treated as if the feature were never assigned. M should be equivalent to "Y" for all new 5ODA offices and "Y" or "N" for 5ODA retrofit purposes.

NOTE: Each unique feature name (not cluster name) must correspond to a BRCS feature name that is defined on one BRCS feature Definition forms described in Division 4.

Valid Entries: Y, N

2.8 AC

Description: Is the Authorization Code feature required?

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

If AC is "Y" on this form, a BFG form, or on an associated CLUSTER form for one or more BRCS features, then exactly one Authorization Code feature (defined on an ATHFD form) must exist on an MLHLNFA, BFG, or associated CLUSTER form assigned to the MLHG/TERM.

If MLHG/TERM(s) have the AC field set to "Y" for one or more FEATURES on the MLHLNFA form, BFG form, or an associated CLUSTER form; then all of these specific FEATURES must exist on the ATHFCOS form for the CSV ATH GROUP NAME, which is defined on an ATHMPA, BFG or ATHFD form associated with this MLHG/TERM. In addition, the feature must also be entered on the ATHFCOS form for the CSD ATH GROUP.

If the corresponding feature is a CLUSTER name, then each feature with AC of "Y" on the CLUSTER form (5600 Record) must exist on the ATHFCOS form for the ATH GROUP, and for 5E6 and later the CSD ATH Group, corresponding to the ATH feature entered on this or the CLUSTER form.

AC must be "N" when an ACVT, BCLID, CPNBN, DISP, EDS, LID, MS, or RND feature is assigned in the FEATURE field. If FEATURE is a cluster, then for any of these features that appear in the cluster, the corresponding AC field(s) must be "N" on the CLUSTER form.

2.9 R

Description: Are RAS (Remote Access Services) requested on the feature?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If "Y" is entered, the associated CFWFD form (5614-1 Record) must have ACT TYPE set to "CDDN", "CDDNC", "CDDNCA", "CDCA1A", or "CODE", and the DACT TYPE set to "CODE".

```

mlhlnfa                               5ESS Switch      _
(5113)                               OFFICE DATA ADMINISTRATION
                                MULTILINE HUNT GROUP TERMINAL FEATURE ASSIGNMENT
* 1. MLHG      0035
* 2. TERM      0014
3. BFGN      CTX0006  _          6. FEATURE LIST
    8.                               14.                               20.                               26.
row FEATURE  A M AC R  FEATURE  A M AC R  FEATURE  A M AC R  FEATURE  A M AC R
01 /CFV      Y N N N  _____ - - - -  _____ - - - -  _____ - - - -
02 /ACBC      Y N N N  _____ - - - -  _____ - - - -  _____ - - - -
03 /CWC1      Y N N N  _____ - - - -  _____ - - - -  _____ - - - -
04 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
05 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
06 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
07 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
08 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
09 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
10 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
11 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -
12 _____ - - - -  _____ - - - -  _____ - - - -  _____ - - - -

```

Figure 1 SAMPLE MLHLNFA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 1N: 5114 RECORD

MULTIPLE TNs FOR MULTILINE HUNT GROUPS FORM - MULTITN

1. GENERAL

The 5114 Record is available with 5E3 and later Software Releases. It is used to assign additional Telephone Numbers to a MLHG Main TN, MLHG Subgroup TNs or a MLHG Member.

MULTITN forms must not be assigned to MLHG's that have a HUNT TYPE of "PSUCD" or "PMHG" on the MLHGFD form. The MLHG must not be a Modem Pool Group (the MPTYPE field must be blank on the MLHG form).

To link a MULTITN form to a UCD (Uniform Call Distribution) MLHG main TN, the MULTITN form must be assigned with the SUBTN and TERM fields blank. The corresponding MLHG form must have a value entered in the LISTED TN field.

To link a MULTITN form to an MLHG Subgroup TN, the MULTITN form must be assigned with the MLHG and SUBTN fields entered and the TERM field must be blank.

To link a MULTITN form to an MLHG Member, the MLHG and TERM fields must be entered and the SUBTN field must be blank. The corresponding MLHLN form must have a TN assigned and the ICP field must not be "Y". The corresponding MLHLN form must not have a Class Of Service of "TWOPTY", "4PSS" or "8PSS". Outdial MLHG Members may not be assigned on the MULTITN form.

With 5E6 and later Software Releases, distinctive ringing may be applied to analog MLHG terminals that have multiple TNs.

- **NOTE:** Distinctive ringing may only be applied to Hunt Groups which have a HUNT TYPE of "REG", "HTC", or "UCD" on the associated MLHGFD form (5604 Record).

See Division 2, Section 4A for more information on Multi-Distinctive Ringing II.

1.1 Recent Change View

The corresponding Recent Change/ Verify view is 3.3.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *TN

Description: Enter the TN (Telephone Number). The Telephone Number entered here must not be defined on any other Line Assignment form.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

For 5E12 and later, TNs on different MULTITN forms can not be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the MULTITN form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, a 7-digit TN or NEXT TN on the MULTITN form must have the first 3 digits defined as OFFICE CODE on the NOC form. Also, the first 6 digits of a 10-digit TN or NEXT TN on the MULTITN form must be defined as NPA and OFFICE CODE on the NOC form.

2.3 MLHG

Description: Enter the Multiline Hunt Group Number. This Multiline Hunt Group Number must be defined on an MLHG form.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

2.4 TERM

Description: If this MULTITN form is to be linked to a MLHLN form, enter the appropriate MLHG Terminal Number. If this MULTITN form is to be linked to a Listed TN for an MLHG or linked to a MLHG Subgroup TN, leave this field blank.

Valid Entries: 1 - 2015

2.5 SUBTN

Description: If this MULTITN form is to be linked to an MLHG Subgroup TN, enter the 7-digit SUBTN number from the MLHG form. If this MULTITN form is to be linked to a Listed TN for an MLHG or linked to an MLHG Terminal, leave this field blank.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

For 5E12 and later, if the first 3 digits of the 7-digit SUBTNs on the MULTITN form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit SUBTN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.6 INWATS

Description: Is this TN INWATS?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If INWATS is "Y", then NONHUNT and ICP must be "N".

2.7 NONHUNT

Description: Is this TN a Non-Hunt line?

Required Field.

Default: N

Data Rules:

NONHUNT must be "N" for Subgroup TNs and for Lead Terminals (TERM = 1). If NONHUNT is "Y", then INWATS and ICP must be "N".

2.8 ICP

Description: Is this is an Intercept TN? ICP is used to route terminating calls to Regular Intercept.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ICP is "Y" then NONHUNT and INWATS must be "N".

2.9 TRC

Description: Does this TN require a Call Trace?

Required Field.

Default: N

Valid Entries: Y, N

2.10 NEXT TN

Description: This field identifies the next TN for this Listed TN, Subgroup TN or Terminal TN.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

For 5E12 and later, if the first 3 digits of the 7-digit NEXT TNs on the MULTITN form are equivalent to an OFFICE CODE on the NOC form, but there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7- digit NEXT TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.11 MDN RING

Description: Enter the ringing pattern assigned to the dependent TN.

Software Release: 5E6 and later

Required Field.

Default: A

Valid Entries:

Valid MDN RING Entries	
Entry	Definition
A	Repeated pattern of 2 seconds on and 4 seconds off, (normal ringing pattern).
B	Repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on followed by 4 seconds off.
C	Repeated pattern of 0.3 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on followed by 4 seconds off.
E	Repeated pattern of 0.3 seconds on, 0.2 seconds off, 1 second on, 0.2 seconds off, 0.3 seconds on followed by 4 seconds off.

NOTE: The Multi-Distinctive Ringing II feature is secured and can only be assigned to Analog Hunt Groups. ISDN Hunt Groups will receive Ringing Pattern A. Since, multiple TNs assigned to "MUPH" MLHG lines do not have access to distinctive ringing, MDN RING must be set to "A" for MLHG's which have an associated MLHGFD form with HUNT TYPE set to "MUPH".

Lines with class of service "FC 4WIRE INDIV" are not supported.

MESSAGE SERVICE CENTER

The CLIENT TN TYPE field was added with the ISVM (Inter-Switch Voice Messaging) feature (see Div. 2, Sec. 1BG). This feature enhances the components of the MSS (Message Service System) to offer VM service across switches.

2.12 CLIENT TN TYPE

Description: Enter the client telephone number type. This field allows VM (Voice Messaging) users to choose which DN, either the OCDN (Originally Called Directory Number) or the RDN (Redirecting DN), is sent to the VM system. The RDN is the DN of the last forwarding party before a call terminates.

Only a group DN and the dependent DNs associated with the group can be assigned a CLIENT TN TYPE. This option is not assigned on a per-member basis. This field was added with the ISVM (Inter-Switch Voice Messaging) feature which is described in Div. 2, Sec. 1BG.

Software Release: 5E7 and later

Valid Entries:

Valid CLIENT TN TYPE Entries	
Entry	Definition
OCDN	Originally Called Directory Number
RDN	Redirecting Directory Number

Data Rules:

When SUBTN is entered, CLIENT TN TYPE cannot be entered. When CLIENT TN TYPE is entered, TERM must not be entered or must be 1, and NONHUNT must be "N".

```

multitn          5ESS Switch      _
5114              OFFICE DATA ADMINISTRATION
                  MULTIPLE TNs FOR MULTILINE HUNT GROUPS

* 1. TN          4548938          MESSAGE SERVICE CENTER
  2. MLHG        0023            11. CLIENT TN TYPE RDN
  3. TERM        _____
  4. SUBTN       _____
  5. INWATS      N
  6. NONHUNT     N
  7. ICP         N
  8. TRC         N
  9. NEXT TN     _____
 10. MDN RING    A

```

Figure 1 SAMPLE MULTITN FORM 5E11 AND EARLIER SOFTWARE RELEASES

```

multitn          5ESS Switch      _
(5114)           OFFICE DATA ADMINISTRATION
                  MULTIPLE TNs FOR MULTILINE HUNT GOUPS

*1. TN          _____          MESSAGE SERVICE CENTER
#2. MLHG        _____          11. CLIENT TN TYPE _____
  3. TERM        _____
  4. SUBTN       _____
  5. INWATS      N
  6. NONHUNT     N
  7. ICP         N
  8. TRC         N
  9. NEXT TN     _____
 10. MDN RING    A

```

Figure 2 SAMPLE MULTITN FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 10: 5115/5115A/5115B RECORDS HUNDREDS GROUP(S) ASSIGNMENT FORM - HGRPAS

1. GENERAL

The HGRPAS form is available in 5E2 and later Software Releases and is used to assign a routing module and/or a route index for a hundreds group. A hundreds group is a set of 7-digit telephone numbers which have the first five digits in common. The first three common digits are referred to as the office code, which is defined in the OFFICE CODE field on a NOC form (5501 Record), the fourth common digit as the thousands digit and the fifth common digit as the hundreds digit. The range of telephone numbers 456-7800 to 456-7899 is an example of a hundreds group.

1.1 Routing Module

When an SM (Switching Module) is designated as the routing module for a particular hundreds group, the designated SM will have the terminating line information for all "defined" telephone numbers within the hundreds group. A listing of "defined" telephone numbers will appear later in this section. Call processing will use the routing module when routing to a telephone number served by this 5ESS Switch. The complete listing of designated routing modules is stored in each SM. When an SM has a call originating on either a line or a trunk, if after digit analysis and screening the determination is to route to a local office code, the SM will determine which SM is the routing module for the hundreds group of the called telephone number. The originating SM will then send a message to the SM that is the routing module requesting the information for terminating a call to the specific telephone number. If the telephone number is defined with a physical port, a path will be set up between the originator and the SM where the physical port resides. The terminating SM may be the originating SM, the routing SM or another SM.

1.2 Remote Modules

In 5E5 and later Software Releases, a remote module can be a routing module under given conditions to be explained later.

1.3 Route Index

When a route index is entered for a particular hundreds group, that indicates the call should not route to a physical line but rather the call routes to a trunk group defined for the route index. Whenever an entire hundreds group is used for one PBX-DID route, the route index entered on this form eliminates submitting one hundred LINE forms (5109-1 Record). The use of this form can therefore save substantial memory and real time used for call processing. Reconstruction to a 7-digit number is still done when the route index is entered here instead of on individual LINE forms.

When a telephone number, within a hundreds group assigned a route index on a HGRPAS form, must be routed in a manner different than the rest of the hundreds group, then the telephone number must be "defined" on a form that allows such definitions. The associated route index on the "defining" form will take precedence over the route index assignment on the HGRPAS form while the remainder of the hundreds group without "defining" forms will continue to apply the route index on the HGRPAS form.

A hundreds group may be assigned both a routing module and a route index. An example of this application is a PBX where the majority of the DNs in the hundreds group are served from the PBX but a few DNs physically terminate in the 5ESS. For this case, the physical terminations would take precedence over the route index. 5ESS Switch call processing will first use the routing module to check if the called DN terminates in the 5ESS Switch Office. If not found, the route index will be used to route the call to a trunk group for termination to the PBX. This call processing functionality applies to both circuit and packet hundreds groups.

The use of 5ESS Switch call processing in this manner can eliminate cumbersome digit analysis tables when DNs in a hundreds group are randomly assigned between switch entities as would be the case in the above 5ESS Switch/PBX illustration. However, it is important to note that other considerations such as vacant code treatment must be taken into account which could preclude the use of this functionality. In the above example, the PBX is assumed to provide vacant code treatment if the called DN is not a working DN in the PBX.

1.4 Routing Modules Assigned Via Algorithms

The ODA process allows the customer to assign a routing module and/or a route index to any quantity of hundreds groups within the 5ESS Switch. It is not required that the customer enter a HGRPAS form for every hundreds group. The ODA process will apply a series of algorithms to assign a routing module to those hundreds groups that did not receive an assignment on a HGRPAS form. The algorithms pertain strictly to hundreds groups that have telephone numbers specified on "defining" forms. The algorithms do not assign or alter route indexes.

In 5E5 and later Software Releases, the algorithms changed substantially as did the definition of which SMs are eligible to be a routing module. The algorithms determine all the hundreds groups that have defined telephone numbers but are without a customer-assigned routing module. The algorithms then determine all the SMs that are eligible to be a routing module. An operational host SM can always be an eligible routing module.

The RM RTG RSTRCT field on the OFCOPT form (5509 Record) is used to indicate the usage of remote modules (ORM, RSM, TRM) as routing modules. If the field is set to "Y", then an operational remote module may be a routing module if and only if all of the defined telephone numbers within the hundreds group physically reside in the same Remote Site. The Remote Site is specified in the REMOTE SITE field on an EQIM form (5700-1 Record).

If the RM RTG RSTRCT field on the OFCOPT form is set to "N", then an operational remote module may be a routing module regardless of the physical location of the members of the hundreds group.

The assignment process has three major goals:

- A. To select a remote module to be the routing module when all or the preponderance (depending on the value in the aforementioned RM RTG RSTRCT field) hundreds group members reside within the same Remote Site. This reduces the routing load on host SMs and avoids the duplication of terminating data on a host SM and a remote SM.
- B. To select a routing module (in the host SM case) that has the greatest number of hundreds group members residing in it. When the routing module is also the module where the termination resides, one less SM is involved in the call processing which reduces inter-SM communication and saves real time.
- C. To balance the quantity of hundreds groups across the eligible SMs.

An overview of the algorithms that ODA applies for assigning hundreds groups to routing modules follows. There are two distinct sets of algorithms; the choice is entirely dependent on the value in the RM RTG RSTRCT field on the OFCOPT form. Both sets of algorithms observe a "limit". The limit is essentially the quotient of the quantity of hundreds groups and the quantity of eligible SMs. The limit thus serves to balance the loading of hundreds groups across the eligible SMs.

If the value in the field is set to "N", then a remote module can be a routing module regardless of the physical

terminations of the members of the hundreds group. In this case, the algorithm has three steps:

- The routing modules indicated on the HGRPAS forms are honored, regardless of any exceeding of the "limit";
- Remaining (unassigned) hundreds groups are assigned to the eligible SM, which is below the limit, where the most terminations within the hundreds group reside;
- Remaining hundreds groups are assigned to the SM with the fewest hundreds groups already assigned to it.

If the value in the RM RTG RSTRCT field is set to "Y", then a remote module can be a routing module if and only if all the terminations within the hundreds group reside within the SM or the remote cluster. In this case, the algorithm has five steps:

- The routing modules indicated on the HGRPAS forms are honored, regardless of any exceeding of the "limit";
- A hundreds group with all its terminations on a single remote cluster will be assigned to the SM within the cluster that has the most terminations within the hundreds group, provided that the SM is below the limit;
- Hundreds groups with host SM terminations will be assigned to that SM, provided that the SM is below the limit;
- A hundreds group with all its terminations on a single remote cluster that was not assigned in Step 2 (because of limit violations) will be assigned to another SM within the cluster if the SM is below the limit;
- Those hundreds groups that were not assigned in the first four steps will be assigned to the host SM with the fewest hundreds groups already assigned to it.

NOTE: The default value of "Y" is normally used in order to prevent Remote Modules from containing Routing Data for Local Modules. When a Remote Module is isolated and contains Routing Data for a Local Module, Digit Analysis cannot be completed for any call needing the Routing Data in the Remote Module.

1.5 Packet Routing

Two additional changes available in 5E5 and later Software Releases are a Packet Routing Module and a SAVE field. The SAVE field is used to indicate which Circuit Routing Module and/or Packet Routing Module customer assignments are to be saved across Retrofit and Large Terminal Growth procedures.

In the 5E5 Software Release, an eligible circuit routing module is one that is defined on an EQIM form with the SM USAGE field set to "IM", "HIM", "ORM", "TRM" or "RSM" and the EQSTATUS field set to "O". An eligible packet routing module is one that is defined on an EQIM form with the SM USAGE field set to "IM", "HIM", "ORM", "TRM" or "RSM", the EQSTATUS field set to "O" and the CONFIGURATION field set to "LOADED". The selection of a remote module as a routing module is dependent upon the value entered in the RM RTG RSTRCT field on the ODAOPT form.

The 5ODA algorithms are only applied to telephone numbers that are defined within the 5ESS Switch. If the HGRPAS form is used to assign only a route index to a hundreds group, but there are not any defined telephone numbers within the hundreds group, the algorithms will not assign a routing module to the hundreds group.

In the 5E5 Software Release, the following form fields are used to define telephone numbers that are in hundreds groups assigned (by the customer or 5ODA) a circuit routing module:

CIRCUIT ROUTING MODULE	
Form (Record)	TN
ACQS (5425)	QUOTE TN (last seven digits, only if the AUTO QUOTE field is set to "Y")
DSLUSR (5908)	CKT TN
DSLUSR (5908)	MLHG TN (under CKT SWITCHING heading)
LINE (5109)	TN
MLHG (5110)	LISTED TN
MLHG (5110)	HIGHEST LISTED TN (and all telephone numbers between the LISTED AND HIGHEST LISTED TNs)
MLHG (5110)	SUBTN(1-8) (for TNs defined on a MLHG form, the HUNT TYPE of the MLHG, as defined on a MLHGFD form (5604 Record) must not be set to "PSUCD")
MLHLN (5111)	TN
MTNDR (5550)	TN
MULTITN (5114)	TN
PSMTN (5925)	ACCESS TN
SHTN (5902)	TN (only if TN does not equal the first TN in the SHARED LIST)

In the 5E5 Software Release, the following form fields are used to define telephone numbers that are in hundreds groups assigned (by the customer or 5ODA) a packet routing module:

PACKET ROUTING MODULE	
Form (Record)	TN
AMLBDL (5447-1)	PKT TN
DSL (5907)	TN (under the PERMANENT PACKET B1 heading)
DSL (5907)	TN (under the PERMANENT PACKET B2 heading)
DSLUSR (5908)	DPKT TN
DSLUSR (5908)	MLHG TN (under the D-CHANNEL PACKET SWITCHING heading)
DSLUSR (5908)	ODB TN
MLHG (5110)	LISTED TN
MLHG (5110)	HIGHEST LISTED TN (and all telephone numbers between the LISTED AND HIGHEST LISTED TNs; the HUNT TYPE of the MLHG

In 5E5 and later Software Releases, the 5115 Record lists, for each hundreds group used in the 5ESS Switch, a circuit routing module and/or a packet routing module and/or a route index. Additionally, a SAVE field (to be explained subsequently) appears.

The 5115A Record lists, by SM, all the hundreds groups which use that SM as a circuit routing module.

The 5115B Record lists, by SM, all the hundreds groups which use that SM as a packet routing module.

1.6 Recent Change View

The corresponding Recent Change view for this form is 4.14.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

2.3 * OFFICE CODE

Description: Enter the Office Code.

Required Field.

Valid Entries: 000 - 999

Data Rules:

If the first digit of OFFICE CODE is 0 or 1 then no PKT SM field can be entered.

For 5E12 and later, when the OFFICE CODE and/or NPA/OFFICE CODE combinations are assigned on the HGRPAS input form, they must be defined on the NOC form.

For 5E12 and later, if the HGRPAS forms have an OFFICE CODE defined and there are multiple NOC forms with the same value for OFFICE CODE, NPA will also have to be defined on the HGRPAS form.

2.4 * THOUSANDS DIGIT

Description: Enter the fourth digit of the telephone numbers that comprise the hundred group.

Required Field.

Valid Entries: 0 - 9

2.5 HUNDREDS DIGIT

Description: The fifth digit of the telephone numbers that comprise the hundred group are pre-filled on the HGRPAS form and the 5115 office record.

Valid Entries: 0 - 9

Data Rules:

For 5E12 and later, Route Indexes that are assigned to particular Hundreds Group values on the HGRPAS form for the associated Numbering Plan Area Code, Office Code and Thousands Digit combination, must be defined on the RTIDX input form.

2.6 CKT SM

Description: Enter the Switching Module that will serve as the circuit routing module for the hundreds group. Refer to the GENERAL section to determine which telephone numbers are appropriate for a circuit routing module.

Software Release: 5E5 and later.

Valid Entries: 1 - 192

2.7 PKT SM

Description: Enter the Switching Module that will serve as the packet routing module for the hundreds group. Refer to the GENERAL section to determine which telephone numbers are appropriate for a packet routing module.

Software Release: 5E5 and later.

Valid Entries: 1 - 192

Data Rules:

For 5E9(2) and later, when SM's are defined as PKT SM (packet routing SMs) on the HGRPAS form, then the corresponding EQIM form must have a CONFIGURATION value which supports Packet Switching.

2.8 ROUTE INDEX

Description: Enter the route index value to be applied for calls terminating to the telephone numbers within the hundreds group.

For 5E5 and later Software Releases, this field has meaning only for circuit telephone numbers, as opposed to packet telephone numbers.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

For 5E5 and later Software Releases, if a HGRPAS form is submitted, then at least one CKT SM or PKT SM or ROUTE INDEX must be entered.

The route index entry must be defined on an RTIDX form (Record 5303).

2.9 PORTED OUT

Description: Is this hundreds group ported out?

When PORTED OUT is left blank, the value is inherited from the corresponding PORTED OUT field on the NOC form. Otherwise, "Y" indicates that this hundreds group is ported out and "N" indicates that it is reserved.

Software Release: 5E14 and later

Valid Entries: Y, N, or blank

Data Rules:

When PORTED OUT X is "Y" (where X is 0-9), ROUTE INDEX X must not be entered.

At least one CKT SM, PKT SM, ROUTE INDEX or PORTED OUT value must be entered.

When any PORTED OUT field is entered, ACT must equal "Y" for SFID 530 on the SFSYS form.

2.10 SAVE

Description: The field is used to indicate that the circuit routing module or packet routing module or both, that are assigned to a particular hundreds group, are to be saved for an office undergoing a Retrofit or a Large Terminal Growth procedure. During the Retrofit or Large Terminal Growth procedures, 5ODA will apply the algorithms, explained in the GENERAL section, that assign routing modules to hundreds groups. An entry in the SAVE field can only be made during a Retrofit or Large Terminal Growth Procedure. The SAVE field must not have an entry for a new office. The 5ODA algorithms will respect the assignments indicated on HGRPAS forms in a new office.

The field is directly related to the HUNDREDS GROUP SM ROUTING ASSIGNMENT field on the ODAOPT form (5523 Record). The HUNDREDS GROUP SM ROUTING ASSIGNMENT field offers the user three options for preserving routing module assignments across Retrofits and Large Terminal Growth procedures. The three choices are:

- **REALLOCATE:** 5ODA will apply the series of algorithms to every hundreds group in the 5ESS Switch. 5ODA will completely ignore the existing routing module assignments.
- **PARTIAL:** 5ODA will apply the series of algorithms only to those hundreds groups that are associated with either no entry or an entry of "NONE" in the SAVE field on HGRPAS forms. If the SAVE field has an entry of "CKT", "PKT" or "BOTH", the existing assignment will be preserved.
- **PRESERVE:** 5ODA will not apply the series of algorithms to any hundreds groups in the 5ESS Switch regardless of the SAVE entries on HGRPAS forms. Every existing assignment will be preserved.

The user, through the combination of the SAVE field on the HGRPAS form and the HUNDREDS GROUP SM ROUTING ASSIGNMENT field on the ODAOPT form, can control which routing module assignments (if any) are to be retained across a Retrofit or Large Terminal Growth procedure.

Software Release: 5E5 and later.

Valid Entries:

Valid SAVE Entries	
Entry	Definition
CKT	Save the circuit routing module (CKT SM).
PKT	Save the packet routing module (PKT SM).
BOTH	Save the circuit (CKT SM) and packet routing (PKT SM) modules.
NONE	Do not save the circuit (CKT SM) or packet routing (PKT SM) modules; not entering a value has the same result.

Data Rules:

If "CKT" is entered in this field, then the corresponding CKT SM must have an entry.

If "PKT" is entered in this field, then the corresponding PKT SM must have an entry.

If "BOTH" is entered in this field, then the corresponding CKT SM and PKT SM must have entries.

For 5E12 and later, if the SAVE field on the HGRPAS form, is set to "CKT", "PKT" or "BOTH", and the ROUTING ASSIGNMENT field on the ODAOPT form is equal to "REALLOCATE" or "PRESERVE", the SAVE field will be ignored.

```

hgrpas                      5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5115/5115A/5115B)          HUNDREDS GROUP(S) ASSIGNMENT

```

```

(*) 1. NPA      _____
* 2. OFFICE CODE _____
* 3. THOUSANDS DIGIT _

```

```

hgrpas                      5ESS Switch      _
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5115/5115A/5115B)          HUNDREDS GROUP(S) ASSIGNMENT

```

HUNDREDS DIGIT	CKT SM	PKT SM	ROUTE INDEX	SAVE
0	4. ____	14. ____	24. ____	34. ____
1	5. ____	15. ____	25. ____	35. ____
2	6. ____	16. ____	26. ____	36. ____
3	7. ____	17. ____	27. ____	37. ____
4	8. ____	18. ____	28. ____	38. ____
5	9. ____	19. ____	29. ____	39. ____
6	10. ____	20. ____	30. ____	40. ____
7	11. ____	21. ____	31. ____	41. ____
8	12. ____	22. ____	32. ____	42. ____
9	13. ____	23. ____	33. ____	43. ____

Figure 1 SAMPLE HGRPAS FORM 5E12 AND 5E13 SOFTWARE RELEASES

```

hgrpas                      5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5115/5115A/5115B)          HUNDREDS GROUP(S) ASSIGNMENT

```

```

(*) 1. NPA      _____
* 2. OFFICE CODE _____
* 3. THOUSANDS DIGIT _

```

```

hgrpas                      5ESS Switch      _
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5115/5115A/5115B)          HUNDREDS GROUP(S) ASSIGNMENT

```

HUNDREDS DIGIT	CKT SM	PKT SM	ROUTE INDEX	PORTED OUT	SAVE

0	4. ____	> 14. ____	> 24. ____	> 34. _	> 44. ____
1	5. ____	15. ____	25. ____	35. _	45. ____
2	6. ____	16. ____	26. ____	36. _	46. ____
3	7. ____	17. ____	27. ____	37. _	47. ____
4	8. ____	18. ____	28. ____	38. _	48. ____
5	9. ____	19. ____	29. ____	39. _	49. ____
6	10. ____	20. ____	30. ____	40. _	50. ____
7	11. ____	21. ____	31. ____	41. _	51. ____
8	12. ____	22. ____	32. ____	42. _	52. ____
9	13. ____	23. ____	33. ____	43. _	53. ____

Figure 2 SAMPLE HGRPAS FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 1P: 5116 RECORD EMERGENCY OFFICE TN ASSIGNMENT FORM - EMROFC

1. GENERAL

The 5116 Record is available with 5E2 and later Software Releases.

For 5E4(2) and earlier Software Releases, Remote Site refers to an RSM (Remote Switching Module). For 5E5 and later, Remote Site refers to an RSM, ORM (Optically Remote Module), or TRM (Two-Mile Optically Remote Module).

For 5E4(2) and earlier, the AM (Administrative Module) can reroute up to 100 emergency calls that terminate on any SM (Switching Module) or RSM (Remote Switching Module) that has gone into isolation (Stand-Alone). Calls originated outside an isolated module to an Emergency Office TN within the module will be rerouted using the data input on this form.

For 5E5 and later, the AM can reroute up to 500 emergency calls that terminate on any SM or Remote Module that has gone into Stand-Alone. Calls originated outside an isolated module to an Emergency TN within the module will be rerouted using the data on this form.

For 5E6 and later, the rerouting is accomplished in the CMP (Communication Module Processor) rather than in the AM.

Calls to emergency numbers that originate from a customer assigned to a switching module that is in Stand-Alone or isolation must be rerouted based on data input on an EMRNM form (5108 Record).

For 5E5 and later, if a range of TNs is entered in the EMER TN field and the OUTPULSED DIGITS field is left blank and the RI field is entered, then the dialed digits will be outpulsed over the trunk.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.9.

View 4.9 corresponds to both the EMRNM form (5108 Record) and EMROFC form (5116 Record). When REMOTE SITE is 1 - 174 on View 4.9, it refers to the EMRNM form; when REMOTE SITE is 0, it refers to the EMROFC form.

2. FORM AND RECORD ENTRIES

2.1 * EMERGENCY TN

Description: Enter the required Emergency Telephone Number. This is the number served by a particular Local SM or Remote Module designated as an emergency number requiring rerouting if the SM or Remote Module is in Stand-Alone operation.

Normal expected values are 7- or 10-digit numbers of the type NXX-XXXX or NPA-NXX-XXXX.

If a three-digit code is to be rerouted, the CONV form (5300-4 Record) must be checked to see if the three-digit code is being converted. If it is code converted, enter the converted telephone number instead of the three digit-code.

For 5E5 and later, if stand-alone is available on the Remote Site or Local SM, then a range of Telephone Numbers may be entered for an Emergency Number. Each entry in the emergency routing list is either a TN

or a range of TNs that need to have the same alternate routing treatment when a switching module is isolated from the host 5ESS Switch.

To specify a range of telephone numbers, use the wild-card character (*). Possible entries using the wild-card character are as follows:

```
0
XXX
XXX-XXXX
XXX-XXX-XXXX
XXXXX-XXX-XXX-XXXX
XXX-XX**
XXX-****
***-****
XXX-XXX-XX**
XXX-XXX-****
XXX-***-****
XXXXX-***-***-****
```

The X is a value 0-9. The wild-card (*) character matches any dialed digit at that position.

When determining the order of precedence for matching emergency routing TNs, if an exact match fails on the entire TN, then partial matches are attempted with wild-card digits (*) in the hundreds group, in the whole office code, in the entire area code, and lastly for all 15 digits.

A range of telephone numbers specified with a wild-card character must not overlap another range of telephone numbers for a remote site or local SM in this relation. If an overlap occurs and the modules in stand-alone are connected by IMTs, a routed number that is overlapped would appear to terminate in both modules. This would result in the number looping through all the members of the IMT group until it is blocked.

After a call has been routed to a fixed route or announcement trunk, reorder is given instead of emergency routing. For example, this would occur when a mis-dialed call to an unassigned TN accesses the routing module for that number. Calls to the Operator or 911 that would have terminated to announcement because of stand-alone condition are allowed to emergency alternate route.

Stand-Alone Test Lines allow testing of emergency number rerouting for an RSM/ORM/SM site when the RSM/ORM/SM site is not in stand-alone mode. The lines must have an LCC (Line Class Code) with a SERVICE CLASS of "SATSTLN" and a TERMINATING TREATMENT of "INDIV". When conducting the stand-alone rerouting test from the RSM/ORM/SM site, the lines may be used to originate and dial each of the emergency numbers which is normally rerouted during stand-alone operation.

Required Field.

Valid Entries:

```
5E9(1) and earlier: 1 - 15 digits (0 - 9, "#", or "**")
5E9(2) and later: 1 - 15 digits (0 - 9 or "**")
```

2.2 * PREFIX

Description: Enter the dialed prefix digit.

Required Field.

Valid Entries: 0, 1, or "NONE"

2.3 ALTERNATE TN

Description: Enter a Alternate Telephone Number to which the calling customer will be routed.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and

X is 0 - 9

Data Rules:

For 5E3 and earlier, the ALTERNATE TN must be defined on a LINE (5109 Record) or MLHLN form (5111 Record). For 5E4(2) only, it must be defined on a LINE or MLHLN form, or as a circuit switched voice TN on a DSL (5900 Record) or DSMLHLN form (5901 Record). For 5E5 and later, it must be defined on a LINE or MLHLN form, or as a CKT TN or MLHG TN on the DSLUSR form (5908 Record).

The Telephone Number must be associated with an equipment number, i.e., LCEN, LEN, or SLEN, located on another Local SM or Remote Module in the office.

When the ALTERNATE TN is entered, ROUTE INDEX and OUTPUTSED DIGITS must be blank.

For 5E10 and later, ALTERNATE TN(s) assigned on the EMROFC form, must be defined on either the LINE or MLHLN forms with an associated NUMBER, where OE TYPE is equal to "A", (5E12 and later) "C", "E" (5E11 and later), "G", "L" or "S"; or on a MLHG form as a LISTED TN or on the DSLUSR form (as CKT TN or CKT SWITCHING MLHG TN) where the OE is entered.

For 5E12 and later, if the first 3 digits of the 7-digit ALTERNATE TNs on the EMROFC form are equivalent to an OFFICE CODE on the NOC form, but there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit ALTERNATE TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.4 ROUTE INDEX

Description: Enter the Route Index associated with the Outgoing Trunk Group to which calling customers will be routed when they call the Telephone Number entered in the EMERGENCY TN field. The physical trunk(s) must be located in a different switching module than the one in which the emergency number normally terminates.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The value entered in this field must be defined on the RTIDX form.

For 5E4(2) and earlier, if an entry is made in this field, OUTPUTSED DIGITS must be entered and ALTERNATE TN must be blank.

For 5E5 and later, if this field is entered, the ALTERNATE TN field must be blank.

2.5 OUTPULSED DIGITS

Description: If a Route Index is entered in the ROUTE INDEX field, enter the digits to be outpulsed over the Trunk Group. The digits are subject to digit deletion and prefixing that is defined for the Route Index.

Valid Entries: 1 - 15 digits.

Data Rules:

If this field is entered, the ROUTE INDEX field must be entered and the ALTERNATE TN field must be blank.

emrofc	5ESS Switch	—
(5116)	OFFICE DATA ADMINISTRATION	
	EMERGENCY OFFICE TN ASSIGNMENT	

* 1. EMERGENCY TN	6448733
* 2. PREFIX	NONE
3. ALTERNATE TN	7278732
4. ROUTE INDEX	_____
5. OUTPULSED DIGITS	_____

Figure 1 SAMPLE EMROFC FORM 5E11 AND EARLIER SOFTWARE RELEASES

emrofc	5ESS Switch	—
(5116)	OFFICE DATA ADMINISTRATION	
	EMERGENCY OFFICE TN ASSIGNMENT	

*1. EMERGENCY TN	_____
*2. PREFIX	_____
3. ALTERNATE TN	_____
4. ROUTE INDEX	_____
5. OUTPULSED DIGITS	_____

Figure 2 SAMPLE EMROFC FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 1Q: 5117 RECORD PERSONAL IDENTIFICATION DEFINITION FORM - PIDEF

1. GENERAL

The 5117 Record is available with 5E5 and later Software Releases. The form is used to define the PIN (Personal Identification Number) used by RAS (Remote Access Services) to verify a customer's access to RAS for a particular TN.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.39.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TN

Description: Enter the local telephone number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and

X is 0 - 9

Data Rules:

If the PIN will be used for the ACSR (Automatic Customer Station Rearrangement) feature, the TN must be defined as a CKT TN on the DSLUSR form. If it will be used for RACF (Remote Access to Call Forwarding), the TN must be defined on the LINE, MLHLN, DSLUSR, or SHTN form.

The TN must be defined on one of the following forms:

For 5E7 only, ACQS, DFLTSTVR, DSLUSR (CKT TN or MLHG TN), LINE, MLHG, MLHLN, MTNDR, MULTITN, PSMTN, RDTAPORT, or SHTN form.

For 5E8 and later, ACQS, DSLUSR (CKT TN or MLHG TN), LINE, MLHG, MLHLN, MTNDR, MULTITN, PSMTN, RDTAPORT, or SHTN form.

If the TN is defined on a LINE form, and the corresponding LCC form (5306 Record) has TERMINATING TREATMENT set to "RAPVN", a PIDEF form cannot be entered for that LINE form.

For 5E12 and later, TNs on different PIDEF forms can not be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the PIDEF form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, the TN(s) on a PIDEF form must have a corresponding TN defined on a ACQS, DSLUSR (CKT TN or MLHG TN), LINE, MLHG, MLHLN, MTNDR, MULTITN, PSMTN, RDTAPORT, or SHTN form.

2.3 PIN

Description: Enter the Personal Identification Number.

Valid Entries: 0000 - 9999

pidef	5ESS Switch	—
(5117)	OFFICE DATA ADMINISTRATION	
	PERSONAL IDENTIFICATION DEFINITION	

*1. TN 3457687
2. PIN 1212

Figure 1 SAMPLE PIDEF FORM 5E11 AND EARLIER SOFTWARE RELEASES

pidef	5ESS Switch	—
(5117)	OFFICE DATA ADMINISTRATION	
	PERSONAL IDENTIFICATION DEFINITION	

*1. TN _____
2. PIN _____

Figure 2 SAMPLE PIDEF FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 1S: 5174-1/2/3/4 RECORD REMOTE TERMINAL (TR303/TR008) - RTERM

1. GENERAL

The RTERM form (5174 Record) is available with the 5E8 and later Software Releases. It is used by the switch owner to define all remote terminals connected to IDCU (Integrated Digital Carrier Unit) equipment. For 5E12 and later, this form can also be used for remote terminals connected to DNU-S (Digital Networking Unit - Sonet equipment). Two types of RTs (remote terminals) can be connected to an IDCU: TR008 and TR303; however, only the TR303 is applicable to a DNU-S. Effective with the 5E12 Software Release, the screen format was modified to allow additional alarms.

1.1 TR008 RT

A TR008 RT can handle up to 96 analog lines, and from 1 to 5 IFACs (IDCU Facilities) can be connected to a TR008 RT. After a TR008 RT is in an "operational" state, IDCU analog ports can be assigned on the LINE (5109 Record), MLHLN (5111 Record), and TRUNK (5204 Record) forms.

When Telephone Number(s) are assigned on the LINE or MLHLN input forms to IDCU equipment (OE TYPE of "G") the following correspondence must hold on the RTERM input form: the SM/IDCU/RT values of the NUMBER must be defined on an RTERM form and the GEN LINE NO. value must be assigned to an appropriate IDCU DIGRP with its STATUS set to "O" for operational. Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

GEN LINE NO to RTERM Form Correspondence

GEN LINE NO.	RTERM
NUMBER[1,3]	SM
NUMBER[4,5]	UNIT NUMBER
NUMBER[6,7]	RT EX
NUMBER[8,11]	DIGRP - STATUS
0001-0024	A O
0025-0048	B O
0049-0072	C O
0073-0096	D O

1.2 TR303 RT

Some TR303 RTs can handle up to 2048 analog and ISDN lines and from 2 to 28 IFACs can be connected to a TR303 RT. After a TR303 RT is in an "operational" state, the IDCU analog ports can be assigned on the LINE, MLHLN and TRUNK forms, and, IDCU ISDN ports can be assigned on the DSL (5902 Record) and DSLUSR (5908 Record) forms.

All IDCU equipment in an office must use the same OE TYPE (Office Equipment Type). There are two IDCU OE types. OE TYPE of "M" is associated with either an analog or ISDN IDCU Equipment Number with an OE SIZE of 08. OE TYPE of "G" is associated with either an analog or ISDN IDCU equipment number with an OE SIZE of 10. Additional information on OE TYPE can be found in sections where equipment assignments are made (e.g., LINE form (5109 Record). For additional information on OE SIZE, see the OFCOPT form (5509 Record).

1.3 EQIDCU Requirements

When an RTERM form is entered, the related IDCU equipment must be defined on an EQIDCU form (5846 Record). For more information on the EQIDCU form, see Division 8, Section 48.

1.4 EQIFAC Requirements

Any IFAC equipment defined on the RTERM form must be defined on an EQIFAC form (5847 Record). IFAC positions consist of 0-19 for LSI 0 and 20-39 for LSI 1. The PUB43801 field must be set to "N". For more information on the EQIFAC form, see Division 8, Section 49.

For DNU-S, an associated EQVT form (5858 Record) must be defined. See also the UNIT TYPE field for more detailed data rules.

1.5 Recent Change View

The corresponding Recent Change View for this form is 18.15.

2. FORM ENTRIES - 5174-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SM

Description: Enter the identification number of the Switch Module.

Required Field.

Valid Entries: 1 - 192

Data Rules:

For each RTERM form, where the UNIT TYPE is equal to "IDCU", there must be a corresponding EQIDCU form with matching SM and UNIT NUMBER fields.

For 5E9(2) and later, each value of SM entered on the RTERM form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports IDCU (Integrated Digital Carrier Units). For the CONFIGURATION that supports IDCU see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

Each SM / SHELF / CHL GRP can use a maximum of 384 LLCBs (Logical Link Control Blocks). The following applications define the possible LLCB assignments:

Form	SM	LLCB	
		SHELF CHL GRP	Increment
AMLBDL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique AMLBDL form where SERVICE CLASS is "XDB" on a corresponding OSPSDL form.
DSL	OE[1,3]	PPB1 ISCN[1,3]	by 1 for each PPB1 ISCN defined.
		PPB2 ISCN[1,3]	by 1 for each PPB2 ISCN defined.
DSLUSR	OE[1,3]	D ISCN[1,3]	by 1 if a matching DSLUSR form is not found
		D ISCN[1,3] on the corre- sponding DSL form	by 2 for each DSLUSR form where DPKT TN or DPKT MLHG/TERM is entered.
		ODB ISCN1[1,3]	by 1 for each DSLUSR form where DPKT TN and DPKT MLHG/TERM are blank.
		ODB ISCN2	by 1 if only ODB ISCN1 is entered.
DSLAP	LCEN[1,3]	ISCN[1,3]	by 2 if both ODB ISCN1 and ODB ISCN2 are entered.
			by 1 for each unique LCEN/ISCN combination.

MISLINK	OE[1,3]	SHELF and CHL GRP	by 1 for each MISLINK form.
OSPSDSL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique OSPSDSL form where SERVICE CLASS is "TAOPER" or "DAOPER" and a corresponding AMLBDSL form is defined.
			by 1 for each unique OSPSDSL form.
RTERM	SM	ISCN[1,3]	by 2 for each TMC PRI ISCN and each TMC NPRI ISCN entry.
RT INTERFACE is "TR303"			by 3 for each EOC PRI ISCN and each EOC NPRI ISCN entry.
TRUNK	DEN[1,3]	ISCN[1,3]	1 for each unique TRUNK form.
Where TRKCLS is "IFOPER", "IFTERM" or "EDSL"			
XAT	DEN[1,3]	ISCN[1,3]	by 1 for each unique XAT form.

2.3 * UNIT TYPE

Description: Enter the type of host peripheral unit connected to the remote terminal.

Required Field.

Default:

5E8 - 5E11: IDCU
5E12 and later: none

Valid Entries:

5E8 - 5E11: IDCU
5E12 and later: IDCU or DNUS

Data Rules:

When "DNUS" is entered and RT INTERFACE is "TR303", an associated EQVT form (5858 Record) must be defined. All RTFACTRM FACs defined on the RTERM form must exist on an EQVT form with the appropriate APPLICATION TYPE. If the FAC is in position #1 or its position is assigned as the EOC/TMC BKUP RT TERM on the RTERM form, the FAC must have an associated EQVT form with an APPLICATION TYPE of "TR303CTRL". All other FACs on the RTERM form must have an associated EQVT form with an APPLICATION TYPE of "TR303". (The SM, UNIT NUMBER, and FAC of the RTERM form are used to access the associated EQVT form.

For 5E12, the FAC is constructed as "xyzz" where:

- x = EQVT.DATA GROUP
- y = EQVT.STS
- z = EQVT.VT

For 5E13 and later, the FAC is constructed as "abcde" where:

a = EQVT.DATA GROUP
b = EQVT.STE
c = EQVT.STS
d = EQVT.VT GROUP
e = EQVT.VT MEMBER

2.4 * UNIT NUMBER

Description: Enter the unit number.

Required Field.

Valid Entries:

For 5E9(2) and earlier: 0 - 7

For 5E10 - 5E11: 0 - 42

For 5E12 and later:

0 - 7 (DNUS)

0 - 42 (IDCU)

Data Rules:

For each RTERM form, there must be a corresponding EQIDCU form with matching SM and UNIT NUMBER fields.

Equipment Bay and Vertical Position values must be unique within an SM for an assigned UNIT NUMBER.

2.5 * RT EX

Description: Enter the remote terminal external number.

Required Field.

Valid Entries:

5E11 and earlier: 1 - 31

5E12 and later:

1 - 31 (IDCU)

1 - 99 (DNUS)

2.6 # RT INTERFACE

Description: Enter the remote terminal interface type.

Required Field.

Valid RT INTERFACE Entries	
Entry	Description
TR008 or TR0	Analog remote Terminal.
TR303 or TR3	Analog and ISDN remote terminal.

Data Rules:

TR303 and TR008 remote terminals must be unique for any SM, UNIT NUMBER, and/or PROT LINE fields.

For 5E9(1) only, the channel units on each RTERM forms where RT INTERFACE is "TR008" are divided into 3 blocks, each with 16 consecutive channel units (CU 01/02 to CU 31/32, CU 33/34 to CU 63/64, and CU 65/66 to CU 95/96). If any one or all of the channel units on the same block have an entry, the whole block is considered assigned. For the RTERM forms where RT INTERFACE is "TR303" and RT LINE SIZE is entered the number of assigned blocks for each RTERM form is calculated as $(RT\ LINE\ SIZE - 1)/32 + 1$. The total

number of assigned blocks from all the RTERM forms on the same SM must not be greater than 128.

TR303 - When "TR303" is entered:

- all TR008 IFACs must be blank.
- SHELF A, B, C, and D IFACs must be blank.
- PROVISION RT, ACKTIMER, NO RETRANS, UNACK FRAMES, and ACTIVITY TIMER must be entered.
- TMC PRI/NPRI ISCNs or EOC PRI/NPRI ISCNs can be entered only when RT EQSTAT is "O".
- ISCNs from TMC PRI/NPRI and EOC PRI/NPRI must have unique values.
- the SLCALM form (5105 Record) must have a value in the CRITICAL field.

For all TR303 remote terminals, OEs can be assigned to the RT only if the TR303 is equipped (i.e, RT EQSTAT must equal "O" or "G"). In addition, OEs assigned to any TR303 must never have the assigned line value exceed the RT LINE SIZE on the related RTERM form. (The line value is OE NUMBER[8,11] for an OE TYPE of "G".) Originating Equipment (OE) with OE TYPE of "G" on the DSL, DSLUSR, LINE, MLHLN, TRUNK or MISLINK form(s) must have SM/IDCU/RT values assigned to OE NUMBER[1,7] which correspond to the SM, UNIT NUMBER, and RT EX values assigned on an RTERM form where RT INTERFACE is "TR303".

For 5E9(2) and later, each value of SM entered on an RTERM form which has RT INTERFACE set to "TR303" must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports TR303 Remote Terminals. For the CONFIGURATION that supports TR303, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

- for 5E10 and later, INH DSL MAINT must be entered.

For 5E10 and later, when NON - CONTROLLING or CONTROLLING OE - types/numbers defined on the NAILUP input form with CONTROLLING OE-type equal to "G" and DDS equal to "Y" are associated with an RTERM form where RT INTERFACE is "TR303",

- the corresponding MLHLN form must have the TR303 NAILUP field set to "Y".
- the corresponding LINE form must have the TR303 NAILUP field set to "Y".

For 5E10 and later, when MLHG/TERM(s) on the MLHLN form have OE TYPE set to "G" or "A", the CLASS OF SERVICE on the corresponding LCC form can not be equal to any of the following:

4WINDIV,
TAOPER,
or XDB.

The SM/IDCU/RT values found in the OE NUMBER[1,7] will point to an RTERM form with RT INTERFACE set to "TR303".

TR008 - When "TR008" is entered:

- RT EQSTAT and RT LINE SIZE must not be entered.
- PWR ALM CLASS must not have "CRIT" entered.
- DIGRP A MODE and IFAC must be entered.
- DIGRP A EQSTAT must be either "O" or "G".
- if DIGRP A MODE has
 - "CONC" entered, then DIGRP B MODE must have "CONC" entered, and DIGRP B IFAC must not be entered.
 - "UNCONC" entered, then DIGRP B MODE must not have "CONC" entered.
- if DIGRP B MODE is
 - not entered, then DIGRP B EQSTAT and IFAC must not be entered.
 - entered, then DIGRP B EQSTAT must be "G" or "O".
 - "UNCONC", then DIGRP B IFAC must be entered.
- if DIGRP B, C, or D EQSTAT is operational, then DIGRP A EQSTAT must be operational.
- if DIGRP C MODE is
 - "CONC", then DIGRP D MODE must have "CONC" entered. Also, DIGRP D IFAC must not be entered, and DIGRP C EQSTAT must have "G" or "O" entered.
 - "UNCONC", then DIGRP D MODE must not have "CONC" entered.
 - entered, then DIGRP C IFAC must be entered.
- if DIGRP C MODE is @dash2 = not entered, then DIGRP C EQSTAT and IFAC must not be entered.
- if DIGRP D MODE is
 - entered, then DIGRP C MODE must be entered, and DIGRP D EQSTAT must be "G" or "O".
 - not entered, then DIGRP D EQSTAT and IFAC must not be entered.
 - "UNCONC", then DIGRP D IFAC must be entered.
- FTTH ENABLED (Fiber To The Home Enabled) must be entered. When "TR008" is entered, and FTTH ENABLED is set to "Y",
 - PALIT on the corresponding LINE form (5109 Record) or MLHLN form (5111 Record) must be "Y".
 - PSLIM on the corresponding LINE form (5109 Record) or MLHLN form (5111 Record) must be "Y".

- ENV ALM1 CLASS, ENV ALM1 COND, ENV ALM2 CLASS, and ENV ALM2 COND must not be entered.
- all TR303 IFACs must not be entered.
- SIGMODE on the Nailup form (5207 Record) must be "A", "AB" or "NOSIG".

For 5E10 and later, when MLHG/TERM(s) on the MLHLN form have OE TYPE set to "G", the CLASS OF SERVICE on the corresponding LCC form can not be equal to any of the following:

4WINDIV,
ISATND,
ISDN,
TAOPER or
XDB.

The SM/IDCU/RT values found in the OE NUMBER[1,7] will point to an RTERM form with RT INTERFACE set to "TR008".

2.7 # RT SID

Description: Enter the remote terminal source identifier.

Required Field.

Valid Entries: 1 - 9999

Data Rules:

The RT SID assigned on this form must be unique to an office.

SIDs (Site Identification Numbers) cannot be duplicated on RTERM and/or SLCRT forms. Each SID number must be unique across all SMs.

2.8 RT MTB

Description: Enter the Remote Terminal Metallic Test Bus.

Valid Entries: a 9-digit MTB number in the following format.

MTB (METALLIC TEST BUS) NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-31
RT Metallic Test Bus	RT MTB	XX	00-14

Data Rules:

The RT MTB defined on this form must be defined on the EQTBCU form (5811 Record).

The RT MTB defined on this form must be unique.

The RT MTB defined on this form must have a METALLIC SERVICE UNIT assigned on either the EQMSP or EQMMSP forms (5750 Record).

The RT MTB defined on this form must have an MACC (Metallic Access Circuit Pack) assigned on either the

EQMSP or EQMMSP forms (5750 Record).

An RT MTB cannot have more than 20 RT assignments.

The MTB pack resides upon an ORM, RSM or TRM. The RTERM and the MTBs must share the same SITE ID (on EQIM form). In addition, if this is a remote SITE ID (i.e., it does not reside in the local office), the MTBs must reside on the Common Resource Module (denoted by MASTER MODULE on corresponding EQSITE form).

NOTE: This rule does not apply to co-located ORMs or TRMs.

2.9 RT ID DPN

Description: Enter the Remote Terminal Identification Distribute Point Number.

Valid Entries: a 9-digit Distribute Point Number in the following format.

DPN (DISTRIBUTE POINT NUMBER)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-31
RT Distribute Point Number	RT ID DPN	XX	00-31

Data Rules:

When RT ID DPN is entered, RT MTB must be entered.

All RT ID DPN assignments must be unique on each SM.

2.10 PWR ALM CLASS

Description: Enter the Power Alarm Classification.

Valid PWR ALM CLASS Entries	
Entry	Description
MINOR or MI	Minor alarm classification.
MAJOR or MA	Major alarm classification.
CRIT or C	Critical alarm classification.

Data Rules:

When RT INTERFACE is "TR008", PWR ALM CLASS must not have "CRITICAL" entered.

2.11 PROT LINE

Description: Enter the Protection Line IFAC for the RT.

Valid Entries: 0 - 39

Data Rules:

When RT INTERFACE is "TR303", PROT LINE, if known, must equal an IFAC value.

2.12 CKT TST MTH

Description: Enter the Circuit Test Method.

Default: NONE

Valid CIRCUIT TEST METHOD Entries	
Entry	Description
RTU or R	Remote Test Unit.
DIODE or D	Diode Test Method.
SHORT or S	Short Test Method.
NONE or N	None.

Data Rules:

When CKT TST MTH is entered and is not "NONE", RT MTB must be entered.

When CKT TST MTH is not entered or is "NONE", RT MTB must not be entered.

2.13 BER THRES

Description: Enter the Bit Error Ratio threshold for the DS1 protection switch.

Default: 4

Valid Entries: 4 - 7

Data Rules:

For RTs on an IDCUC, BER THRES must be entered.

2.14 SUP METHOD

Description: Enter the Suppression Method for the remote terminal.

Valid SUP METHOD Entries	
Entry	Description
blank	Software Release: 5E12 and later DNU-S.
TR8ZC	IDCU to TR008, ZCS mode. This mode is used in TR008 RTs that are remotod over 24-channel facilities which require ZCS. These 24-channel facilities include: Fs, ZCS, CCS, and 4K data links.
TR8B8	IDCU to TR008, B8ZS mode. This mode is used in TR008 RTs that are remotod over 24-channel facilities which require B8ZS. These 24-channel facilities include: Fs, B8ZS, CCS, and 4K data links.
303ZC	IDCU to TR303, ZCS mode. This mode is used in TR303 RTs that are remotod over 24-channel facilities which require ZCS. These 24-channel facilities include: Fe, ZCS, CCS, and 4K data links.
303B8	IDCU to TR303, B8ZS mode. This mode is used in TR303 RTs that are remotod over 24-channel facilities which require B8ZS. These 24-channel facilities include: Fe, B8ZS, CCS, and 4K data links.

NOTE: As with all transmission facility connections, the SUP METHOD must be consistent across all equipment used throughout the connection from the RT to the 5ESS Switch. For example, if an RT has a SUP METHOD set to "ZCS" or "B8ZS", the type of transmission equipment used (e.g., T1 line repeaters, multiplexers, and fiber links) must be compatible (and optioned) with ZCS or B8ZS signaling, respectively, as well as the 5ESS Switch.

Data Rules:

When RT INTERFACE is "TR008", SUP METHOD must be "TR8ZC" or "TR8B8".

When RT INTERFACE is "TR303", SUP METHOD must be "303ZC" or "303B8".

When RT INTERFACE is "TR303", and DSL assignments are planned, SUP METHOD must be "303B8".

The SUP METHOD is defined for a "TR303" or "TR008" RT, must have IFACs of the same SUP METHOD assigned on the EQIFAC form.

2.15 RT VENDOR

Description: Enter the remote terminal vendor name.

Valid Entries: 1 - 25 characters

TR303 REMOTE TERMINAL

The following fields (Section 2.16 - Section 2.21) define status and alarm class parameters for the TR303 RT.

2.16 RT EQSTAT

Description: Enter the equipment status of the TR303 remote terminal.

Valid RT EQSTAT Entries	
Entry	Description
O	Operational.
G	Growth.
U	Unequipped.

Data Rules:

When RT INTERFACE is "TR303", RT EQSTAT must be entered.

When RT INTERFACE is "TR303" and RT EQSTAT is "O", TMC PRI/NPRI ISCNs and EOC PRI/NPRI ISCNs must be entered.

When RT INTERFACE is "TR303", EOC/TMC BKUP must be entered when RT EQSTAT is "G" or "O".

When RT INTERFACE is "TR303", the RT EQSTAT assigned on this form must have IFACs of equal or higher EQSTAT values assigned on the EQIFAC form.

2.17 RT LINE SIZE

Description: Enter the Remote Terminal Line Size.

Valid Entries: 1 - 2048

Data Rules:

When RT INTERFACE is "TR303", RT LINE SIZE must be entered.

If RT LINE SIZE is greater than 99, the OE SIZE on the OFCOPT form must be set to 10.

Any OE numbers assigned to a TR303 RT must not have the assigned line value exceed the RT LINE SIZE defined on this form.

2.18 ENV ALM1 CLASS

Description: This identifies the Environmental Alarm 1 Classification.

Software Release: 5E10 - 5E11

Valid Entries:

Valid ENV ALM1 CLASS Entries	
Entry	Description
MINOR or MI	Minor alarm classification.
MAJOR or MA	Major alarm classification.
CRIT or C	Critical alarm classification.

Data Rules:

For TR008, ENV ALM1 CLASS must be blank.

For TR303, ALM1 CLASS and ALM1 COND must be entered when either one is entered.

2.19 ENV ALM1 COND

Description: Enter the Environmental Alarm 1 Condition. The information entered will be output (printed or displayed on a terminal) to provide the site of the TR303 RT and the problem type (e.g., power) which triggered the alarm.

Software Release: 5E10 - 5E11

Valid Entries: 1 - 25 characters

Data Rules:

For TR008, ENV ALM1 COND must be blank.

For TR303, ALM1 CLASS and ALM1 COND must be entered when either one is entered.

2.20 ENV ALM2 CLASS

Description: Enter the Environmental Alarm 2 Classification.

Software Release: 5E10 - 5E11

Valid Entries:

Valid ENV ALM2 CLASS Entries	
Entry	Description
MINOR or MI	Minor alarm classification.
MAJOR or MA	Major alarm classification.
CRIT or C	Critical alarm classification.

Data Rules:

For TR008, ENV ALM2 CLASS must be blank.

For TR303, ALM2 CLASS and ALM2 COND must be entered when either one is entered.

2.21 ENV ALM2 COND

Description: Enter the Environmental Alarm 2 Condition.

Software Release: 5E10 - 5E11
Valid Entries: 1 - 25 characters

Data Rules:

For TR008, ENV ALM2 COND must be blank.

For TR303, ALM2 CLASS and ALM2 COND must be entered when either one is entered.

2.22 TR303 BK OUT

Description: This field is used by Recent Change only.

2.23 INH DSL MAINT

Description: Should DSL (Digital Line Subscriber) maintenance be disabled for ISDN loopback test, ISDN corrupt CRC test, and ISDN Performance Monitoring? This field applies to IDCU TR303 Remote Terminals only.

Software Release: 5E10 and later
Default: N
Valid Entries: Y, N

Data Rules:

When RT INTERFACE is "TR008", this field must be blank.

When RT INTERFACE is "TR303", this field must be entered.

ENVIRONMENTAL ALARMS (ENVALM)

2.24 CLASS

Description: This field defines the alarm classification.

Software Release: 5E12 and later
Valid Entries: Minor, Major, Critical

2.25 CONDITION

Description: This field can be used for remarks about the alarm.

Software Release: 5E12 and later
Valid Entries: 25 characters or less

3. FORM ENTRIES - 5174-2 RECORD

TR008, SHELVES A - D

The following fields (Section 3.1 - Section 3.4) are used to designate the MODE, EQSTAT, CLI and IFAC for shelves A through D for the TR008 RT.

3.1 MODE

Description: Enter the mode of the remote terminal.

Default: UNCONC

Valid Entries:

Valid MODE Entries	
Entry	Description
CONC or C	Concentrated.
UNCONC or U	Unconcentrated.

Data Rules:

When RT INTERFACE is "TR008", the following conditions apply:

- MODE and IFAC are required and must be entered on Shelf A.
- EQSTAT must be either "O" or "G" and must be entered on Shelf A.
- if MODE on Shelf A is "CONC",
 - then MODE on Shelf B must be "CONC".
 - IFAC on shelf B must be blank.
- if MODE on Shelf A is "UNCONC", then MODE on Shelf B must be "UNCONC or unknown."
- if MODE on Shelf C is "CONC", then MODE on Shelf D must be "CONC".
- if MODE on Shelf C is "UNCONC", then MODE on Shelf D must be "UNCONC or unknown."
- if MODE on Shelf B, C or D is not entered, then EQSTAT and IFAC on Shelf B, C or D must not be entered, respectively.
- if MODE on Shelf B, C or D is entered, then EQSTAT on Shelf B, C or D must be "G" or "O", respectively.
- if MODE on Shelf B and D is "UNCONC", then IFAC on Shelf B and D must be entered, respectively.
- if Shelf B, C, or D is "O", then EQSTAT on Shelf A must be "O".
- if MODE on Shelf C is "CONC", then IFAC on Shelf D must be blank.
- if MODE on Shelf C is entered, then IFAC on Shelf C must be entered.
- if MODE on Shelf D is entered, MODE on Shelf C must be entered.

When MODE of SHELF A/C is set to "CONC", then the first/last 48 lines (24 channel units), i.e. CU0102 thru CU4748/CU4950 thru CU9596, share the time slots on the IFAC A/C. Each IFAC only has 24 (0 - 23) time slots available. Each channel unit entered on the RTERM form where there is a corresponding NAILUP form will have one or two time slots reserved (depending on the value of PATH NUM on the NAILUP form). If the channel unit entered on the RTERM form has no matching NAILUP form, and is a TR008 Mode-II special channel unit (unit type is "COIN", "FXS", "FXSLS", "DIDDPT", "SPOTS", "DID", "SSV00", or "SSV10") the channel unit will also have one time slot reserved. The total number of reserved time slots on the same IFAC can not be greater than 24.

3.2 EQSTAT

Description: Enter the state of the equipment.

Default: O

Valid Entries:

Valid EQSTAT Entries	
Entry	Description
O	Operational.
G	Growth.
U	Unequipped.

Data Rules:

When RT INTERFACE is "TR008", the EQSTAT assigned on this form must have IFACs of equal or higher EQSTAT values assigned on the EQIFAC form.

3.3 CLI

Description: Enter the Change Level Indicator value for shelves A through D.

Default: 0

Valid Entries: 0 - 7FFFFFFF

Data Rules:

The correct CLI value is 00000000 for DIGRP A/B/C/D CLI.

3.4 IFAC

Description: Enter the IDCU Facility Connection number.

Valid Entries: 0 - 39

Data Rules:

Shelves A, B, C, and D IFACs and PROT LINE must have unique values entered.

If an IFAC position (0-19 for LSI 0, and 20-39 for LSI 1) is specified, EQSTAT and LSI must be defined on the EQIFAC form.

If the OE on a DSL form is defined on a TR303 remote terminal, then the DS1, PPB1 DS1 and/or PPB2 DS1 entered on the DSL form corresponds with the IFAC entered in the RT IFAC TERMINATION list on the RTERM form with ROW RT TERM equal to the DS1, PPB1 DS1 and/or PPB2 DS1. Also, this IFAC can not equal PROT LINE on this same RTERM form.

Also if the OE on an MISLINK form, the OE is defined on a TR303 remote terminal, then the DS1 entered on the MISLINK form corresponds with the IFAC entered in the RT IFAC TERMINATION list on the RTERM form with ROW RT TERM equal to the DS1. Also, this IFAC can not equal PROT LINE on this same RTERM form.

REMOTE TERMINAL (TR008) CHANNEL UNIT TYPES

The following field (Section 3.5) is used to designate up to forty-eight Channel Unit Types that terminate on Shelves A through D, for Channel Units CU 01/02 through CU 95/96 for the TR008 RT. The channel units are chosen to match the type of service provided.

3.5 CHANNEL UNIT: 01/02 - 95/96

Description: For Shelves A through D, enter the Channel Unit Types.

Valid CU TYPE Entries		
Entry	Dual or Single	Description
COIN	Single	GS (CF) or LS (DTF) coin.
DID	Dual	Dual DID channel CU for TR008 RTs.
DIDDPT	Single	Single channel DID CU for TR008 RTs.
FSR	Dual	Multi-frequency Ringing 5PTY or Individual.
DFXS	Dual	Software Release: 5E9(2) and later. Dual FX Plugs.
FXS	Single	FX ground start for PBX applications.
FXSLS	Single	FX loop start for WATS applications.
MP	Dual	Multi-party.
SF1	Dual	Software Release: 5E9(1) Only. Dual FX Plugs.
SP	Dual	Single party loop start.
SPOTS	Dual	Special POTS - loop and ground start for Individual, PBX or WATS applications.
SSV00	Dual	Generic non-switched special services for nailup only.
SSV10	Dual	Generic non-switched special services for nailup only.

When SPOTS type channel units are assigned to TR008 mode 2 RT, the concentration ratio increases. If 12 SPOTS channel units are assigned, any SP type card on this digroup will no longer have dialtone. The table below shows how the concentration ratio increases with the assignments of SPOTS channel cards per TR008 mode 2 digroup:

Number of SPOTS cards	Available DS1 Timeslots for other type of channel units
0	24
1	22
2	20
3	18
4	16
5	14
6	12
7	10
8	8
9	6
10	4
11	2
12*	0*

* When 12 SPOTS channel units are assigned to a TR008 digroup, there will be no more DS1 timeslots for other type of channel units such as SP. If there are SP cards assigned, they will not have dialtone.

Data Rules:

If Shelf A is "G" or "O", CU 01/02 through CU 23/24 may have equipment entered. If Shelf "B" is "G" or "O", CU 25/26 through 47/48 may have equipment entered. If Shelf C is "G" or "O", CU 49/50 through 71/72 may have equipment entered. If Shelf D is "G" or "O", CU 73 through 96 may have equipment entered.

When CU types from 25 to 48 are entered, IFAC of Shelf B must be entered or MODE of Shelf A must be "CONC".

When CU types from 49 to 72 are entered, IFAC of Shelf C must be entered and MODE of Shelf C must be entered.

When CU types from 73 to 96 are entered, IFAC of Shelf D must be entered or MODE of Shelf C must be

"CONC".

When any CHANNNEL UNIT types from 01 to 24 are "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) then MODE of DIGRP A must be "UNCONC".

When any CHANNNEL UNIT types from 25 to 48 are "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) then MODE of DIGRP B must be "UNCONC".

When any CHANNNEL UNIT types from 49 to 72 are "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) then MODE of DIGRP C must be "UNCONC".

When any CHANNNEL UNIT types from 73 to 96 are "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) then MODE of DIGRP D must be "UNCONC".

RTERM forms with a UNIT TYPE of "IDCU" and CU XX/YY values (where XX ranges from 01-95, and YY ranges from 02-96) set to "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) indicate that this CU TYPE is used by the Dual FX Plugs Special Feature. It is a secured feature and must be purchased by the office before the "SF1" (5E9(1)) or "DFXS" (5E9(2) and later) CU TYPE can be used. An SFSYS form must exist with SFID 144 ACT field set to "Y".

NON-CONTROLLING and CONTROLLING OE-types/numbers defined on the NAILUP form, which have a corresponding ILEN defined on a RTERM form with CU XX/YY set to "DID" or "DIDDPT", indicate the trunk is a DID trunk. The nailup of DID trunks is not supported. The corresponding ILEN on a RTERM form is found by matching the first three digits of OE on the NAILUP form to the SM, the fourth and fifth digits of OE to the UNIT NUMBER, and the sixth and seventh digits of OE to the RT EX. The matching channel unit (CU XX/YY) is found by matching the tenth and eleventh digits of OE, when OE TYPE = "G", to XX in CU XX/YY where the value of YY is XX + 1.

5E10 and later:

When Telephone Number(s) assigned on the LINE form is assigned to IDCU equipment (OE TYPE is equal to "G"), the Telephone Number must have the proper RTERM Channel Unit to LCC-Service Class correspondence. The LCC/RAX combination assigned on the LINE form must be defined on the LCC form with an associated Service Class that matches the CUXX/YY type on the RTERM input form. Errors will be reported for RTERM forms where RT INTERFACE is "TR008". Refer to the following Table for the required correspondence:

RTERM Channel Unit to LCC-Service Class correspondence.	
LCC SERVICE CLASS	RTERM CU XX/YY
COIN	COIN, FSR, SSV00, SSV10
PBX, HOTPBX	FXS, FSR, SPOTS, DFXS, SSV00, SSV10
HOTMOTL	FXSLS, SPOTS, DFXS, SSV00, SSV10
B911, CHGCALL	SP, SPOTS, SSV00, SSV10
INDIV	FXSLS, SP, SPOTS, FSR, MP, DFXS, SSV00, SSV10
4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
TWOPTY	MP, SSV00, SSV10
5PTY	FSR, SSV00, SSV10

When Telephone Numbers(s) are assigned on the LINE form to NUMBER(S) where OE TYPE is equal to "G", that are defined on the RTERM form as being associated with a Channel Unit type equal to "SP" or "FXSLS", the value of the GST (Ground Start field) on the LINE form must be "N". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

When Telephone Numbers(s) are assigned on the LINE or MLHLN input form(s) to IDCU equipment (OE TYPE is equal to "G"), the OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a known value defined on the RTERM form. Note that the last two digits of the LINE NO. are determined by

the CU XX/YY value (where XX is odd number range of 01-95 and YY is XX + 1). Both LINE NO. (POS) values in the pair are assignable for CU XX/YY type set to

FSR,
MP,
SP,
SSV00,
SSV10,
DFXS, or
SPOTS.

Only the lower (odd) numbered LINE NO. value is assignable for CU XX/YY type set to "COIN", "FXS" or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

OE to RTERM Correspondence	
OE	RTERM
NUMBER[1,3]	SM
NUMBER[4,5]	UNIT NUMBER
NUMBER[6,7]	RT EX
NUMBER[8,11]	For OE TYPE set to "G": POS value for CU XX/YY type = COIN, DFXS, FSR, FXS, FXSLS, MP, SP, SPOTS, SSV00, SSV10

When ASSOC OE TYPE equals "G", Telephone Numbers(s) assigned on the LINE input form(s) with a known ASSOC OE entry that assigned 1-TN LTSB to this TN, the ASSOC OE NUMBER(s) must correspond to a Channel Unit position (i.e., CU XX/YY) with a known value defined on the RTERM form. Note that the last two digits of the LINE NO. are determined by the CU XX/YY value (where XX is odd number range of 01-95 and YY is an even number of XX + 1). Both LINE NO. (POS) values in the pair are assignable for CU XX/YY type set to

"FSR",
"MP",
"SP",
"SPOTS",
"DFXS",
"SSV00", or
"SSV10".

Only the lower (odd) numbered LINE NO. value is assignable for CU XX/YY type set to "COIN", "FXS" or "FXSLS". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

OE to RTERM Correspondence	
OE	RTERM
NUMBER[1,3]	SM
NUMBER[4,5]	UNIT NUMBER
NUMBER[6,7]	RT EX
NUMBER[8,11]	For OE TYPE set to "G": POS value for CU XX/YY type = FSR, MP, SP, SPOTS, COIN, FXS, FXSLS, SSV00, SSV10, DFXS

When TGN/MEMB(s) are assigned on TRUNK form(s) with a known value for TRKOE where type equals "G", (For equipment number(s) on the RTERM form) the TRKOE(s) must correspond to a Shelf Channel Unit position (i.e., CU XX/YY) value of "DID," or "DIDDPT," defined on the RTERM form(s) where RT INTERFACE is "TR008". Note that line number values of the TRKOE[10,11] (for TRKOE type of "G,") are determined by the CU XX/YY value (where XX is odd number range of 01-95 and YY is XX + 1). Both line number values (i.e., 01 and 02) are assignable for CU XX/YY type set to "DID,". Only the lower (odd) numbered line number value is assignable for CU XX/YY type set to "DIDDPT,". Errors will only be reported for RTERM forms where RT INTERFACE is "TR008".

TRKOE to RTERM Correspondence

TRKOE	RTERM
TRKOE[1,3]	SM
TRKOE[4,5]	IDCU
TRKOE[6,7]	REMOTE TERMINAL
TRKOE[10,11]	For TRKOE type = "G": line value for CU XX/YY = "DID," or "DIDD PT,"

When Telephone Numbers(s) are assigned on the LINE input form to NUMBER(S) where OE TYPE is equal to "G", that are defined on the RTERM form as being associated with a Channel Unit type equal to "DFXS", and if the CLASS OF SERVICE on the associated LCC form is "INDIV", the GST (Ground Start) field on the LINE form must be "N". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

For 5E10 and later, Multiline Hunt Group Member(s) assigned on the MLHLN input form to IDCU equipment (OE TYPE is equal to "G") must have the proper RTERM Channel Unit to LCC-Service Class correspondence. The LCC/RAX combination assigned on the MLHLN form must be defined on the LCC form with an associated Service Class that matches the CUXX/YY type on the RTERM input form. Errors will be reported for RTERM forms where RT INTERFACE is "TR008". Refer to the following Table for the required correspondence:

RTERM Channel Unit to LCC-Service Class Correspondence	
LCC SERVICE CLASS	RTERM CU TYPE
INDIV	SP, MP, SPOTS, FSR, FXSLS, SSV00, SSV10, DFXS
CHGCALL	SP, SPOTS, SSV00, SSV10
TWOPTY	SP, MP, SSV00, SSV10
4PFS, 4PSS, 8PSS	MP, SSV00, SSV10
5PTY	FSR, SSV00, SSV10
HOTPBX	FXS, FSR, SPOTS, SSV00, SSV10, DFXS
HOTMOTL	SPOTS, FXSLS, SSV00, SSV10, DFXS
PBX	FXS, SPOTS, FSR, SSV00, SSV10, DFXS
COIN	COIN, SSV00, SSV10
B911	SP, SPOTS, SSV00, SSV10

When Multiline Hunt Group Member(s) are assigned on the MLHLN input form to IDCU equipment (OE TYPE is equal to "G"), which are defined on the RTERM form as being associated with a Channel Unit type equal to "SP" or "FXSLS", the value of the GST (Ground Start) field on the MLHLN form must be "N". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

For 5E10 and later, when Multiline Hunt Group Member(s) are assigned on the MLHLN input form to IDCU equipment (OE TYPE is equal to "G"), which are defined on the RTERM form as being associated with a Channel Unit type equal to "DFXS", and if the CLASS OF SERVICE on the associated LCC form is "INDIV", the GST (Ground Start) field on the MLHLN form must be "N". Errors will be reported for RTERM forms where RT INTERFACE is "TR008".

4. FORM ENTRIES - 5174-3 RECORD

FTTH RESISTOR VALUES

The following fields (Section 4.1 - Section 4.10) are used to enable the TR008 FTTH (Fiber To The Home) Resistor Values and to designate the minimum and maximum resistor values, in K-Ohms, for the TIP-RING R1, TIP-GROUND R2, and RING-GROUND R3 for nine testing conditions. These fields are automatically defaulted for TR303 and TR008, but are used for TR008 only.

4.1 FTTH ENABLED

Description: Is Fiber to the Home Enabled?

Default: Y

Valid Entries: Y, N

Data Rules:

When FTTH is enabled, all FTTH minimum and maximum resistor values must be entered.

When RT INTERFACE is "TR008", and FTTH ENABLED is set to "Y", PALIT on the corresponding LINE or MLHLN form must be set to "Y".

4.2 PHASE 1 DT FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Phase 1 Distant Terminal, Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.3 NO DTM AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for No Drop Test Module and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.4 DROP TEST OK AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Drop Test OK and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.5 NO RINGER AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for No Ringer and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.6 DROP FAILS FEMF/LKG AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Drop Fails Foreign Electromotive Force or Leakage, and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.7 RECVR OFF HOOK AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Receiver Off Hook and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.8 HAZ VOLT DETCTD AT DT AND FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Hazardous Voltage Detected

At Distant Terminal and Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.9 PHASE 1 RT FIBR GOOD

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Phase 1 Remote Terminal, Fiber Good for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below following the FIBR OUT OF FRAME field.)

Valid Entries: 1 - 9999

4.10 FIBR OUT OF FRAME

Description: Enter the minimum and maximum resistor values (in K-Ohms) for Fiber Out of Frame for TIP-RING R1, TIP-GRND R2, and RING-GRND R3.

Default: (see default table below)

Valid Entries: 1-9999

Default Values:						
Fiber To The Home Resistor Values in k-Ohms						
Test Condition	Tip-Ring R1		Tip-Grnd R2		Ring-Grnd R3	
	Min	Max	Min	Max	Min	Max
Phase 1 Dt Fibr Good	0015	0024	0084	0096	0084	0096
No DTM and Fibr Good	0034	0044	0084	0096	0084	0096
Drop Test OK and Fibr Good	0024	0034	0084	0096	0084	0096
No Ringer and Fibr Good	0044	0054	0084	0096	0084	0096
Recvr Off Hook and Fibr Good	0064	0074	0084	0096	0084	0096
Haz Volt Detctd At Dt and Fibr Good	0074	0086	0084	0096	0084	0096
Phase 1 RT Fibr Good	0086	0096	0084	0096	0084	0096
Fibr Out of Frame	2500	9999	0084	0096	0084	0096

5. FORM ENTRIES - 5174-4 RECORD

TR303

The following field provides 28 rows for defining IFAC positions for a TR303 RT.

5.1 RT IFAC TERMINATION

Description: 5E12 and later, the name of this field was changed to RT FAC TERMINATION (RTFACTRM). See RT FAC TERMINATION (RTFACTRM) for usage information.

5.2 RT FAC TERMINATION

Description: For 5E12 and later, this field name was changed from RT IFAC TERMINATION to RT FAC TERMINATION. Enter up to 28 FACs (facility positions) terminating on the remote terminal in the RT TERM IFAC field for rows 1 - 28 in the following formats.

Valid Entries:

5E11 and earlier: 0 - 39 (IDCU)

5E12:

IDCU: 0 - 39

DNUS:

0 - 1 (DG)

0 - 5 (STS)

1 - 28 (DSL)

5E13 and later:

IDCU: 0 - 39

DNUS:

0 - 1 (DG)

1 - 6 (STE)

1 (STS)

1 - 7 (VTG)

1 - 4 (VTM)

Data Rules:

When RT INTERFACE is "TR303", RT TERM row 1 must be entered.

When RT INTERFACE is "TR303", RT TERM row 1 must not equal PROT LINE.

All IFACs must be unique for any SM, UNIT NUMBER combinations on all RTERM forms. The IFAC/FAC may be TR008 IFAC A-D, PROT LINE, or TR303 RT FAC TERMINATION.

If IFAC is between 0 and 19, EQIFAC LSI must be zero and IFAC should match row. If IFAC is between 20 and 39, EQIFAC LSI must be one and should match row.

Each IFAC can have up to 24 (0 - 23) time slots assigned.

TMC AND EOC

The following fields (Section 5.3 - Section 5.4) define the TMC AND EOC (TIME SLOT MANAGEMENT CHANNEL AND EMBEDDED OPERATIONS CHANNEL). These channels provide management and control functions using the LAPD (Link Access Protocol - Level D) parameters. Additional information about the LAPD parameters can be found in the *ISDN BRI Interface Specification (235-900-321)*.

There are two sets of TMC and EOC channels - primary and backup. They provide the link between the remote terminal, IDCU, and the PSU. The link between the RT and the IDCU is provided by the first row of the RT IFAC TERMINATION list (i.e., the IFAC entered in the first row carries the primary EOC/TMC channels). The row of the RT IFAC TERMINATION list which is pointed to by the EOC/TMC BKUP RT TERM field contains the backup EOC/TMC channels. These time slots are fixed as referenced in the Pre-Assigned EOC/TMC Assignments table below.

The links between IDCU and the PSU are assigned via the ISCN/DPIDB/TIME SLOT fields. Time slots are either assigned by customer, in which case the DPIB must be assigned, or they are generated by the software. For TR303 ISCN is always a required field.

Following are the TMC/EOC channel assignments automatically assigned by software for both the first and backup channels.

Pre-assigned EOC, TMC, and GUARD TIMESLOTS			
SUPPRESSION METHOD	DS1 TIMESLOT FOR EOC	DS1 TIMESLOT FOR TMC	DS1 GUARD TIMESLOT
303ZC	11	23	0, 10, 22
303B8	11	23	NA

5.3 EOC/TMC BKUP RT TERM

Description: This field defines the remote terminal termination for the backup EOC/TMC (the IFAC entered in this field is the backup EOC/TMC). This field is for TR303 remote terminals terminating on an IDCU only.

Required Field.

Default: 3

Valid Entries: 2 - 28

Data Rules:

EOC/TMC BKUP RT RTERM must be entered when RT EQSTAT is "G" or "O".

EOC/TMC BKUP RT RTERM must identify the RT TERM ROW of an IFAC which has been entered.

The IFAC specified in the EOC/TMC BKUP RT RTERM field must not be the same IFAC specified in the PROT LINE field.

5.4 PROVISION RT

Description: Is the remote terminal provisioned by the switch? Enter "N" if it is provisioned by an outside source. This field is for TR303s terminating on an IDCU only.

Required Field.

Default: Y

Valid Entries: Y, N

TMC/EOC LAPD PARAMETERS

The following fields (Section 5.5 - Section 5.10) define TMC/EOC LAPD (Link Access Protocol - Level D) parameters for transferring data from the switch to the TR303 remote terminal.

5.5 ACKTIMER

Description: This field defines the Acknowledgement Timer (in milliseconds) for transmitter frame T200. This is the Layer 2 Acknowledgement Timer. It identifies the number of milliseconds the switch will wait for an acknowledgement signal before a frame will be retransmitted.

Required Field.

Default: 150

Valid Entries: 100 - 350 (milliseconds) in increments of 50

5.6 NO RETRANS

Description: This field defines the number of retransmissions threshold. Enter the number of retransmissions for frame N200.

Required Field.

Default: 3

Valid Entries: 1 - 10

5.7 UNACK FRAMES

Description: This is the Layer 2 Window Size. It defines the number of retransmissions that can be queued before an unacknowledgement signal is required. Enter the number of retransmissions for unacknowledged frames.

Required Field.

Default: 7

Valid Entries: 1 - 7

5.8 SAPI0 FRAME SIZE

Description: This is the maximum I-field size for SAPI0. It defines the maximum size frame for SAPI0 (Service Access Point Identifier 0) that can be sent on the DS1 link between the RT and IDCU equipment. This is the maximum I-field size for SAPI0.

Required Field.

Default: 32

Valid Entries: 32

5.9 SAPI1 FRAME SIZE

Description: This is the maximum I-field size for SAPI1. It defines the maximum size frame for SAPI1 (Service Access Point Identifier 1) that can be sent on the DS1 link between the RT and IDCU equipment. This is the maximum I-field size for SAPI1.

Required Field.

Default: 256

Valid Entries: 256

5.10 ACTIVITY TIMER

Description: This is the Link Assurance Timer. It identifies how often, in seconds, the switch will wait to check the DS1 link when there is no activity on the link.

Required Field.

Default: 10

Valid Entries: 10, 20, or 30

ISCN/DPIDB/TIME SLOT

The following fields (Section 5.11 - Section 5.14) define the Primary and Non-Primary TMC (Time Slot Management Channels) and EOC (Embedded Operations Channels).

These fields define the channel used to report the originations for non-ISDN locally switched calls and to assign a time slot for all locally switched calls and for non-provisioned ISDN B channels.

In order to set up a Channel from the protocol handler to the remote terminal, the ISCN (Integrated Services Channel Number), DPIDB, and the DPIDB time slot are used together to define the Primary (TMC PRI) and Non-Primary (TMC NPRI) Time Slot Management Channels and the Primary (EOC PRI) and Non-Primary (EOC NPRI) Embedded Operations Channels.

The following information applies to this field group.

- Each ISCN must have the proper Packet Switching Unit shelf assigned on the EQIDCU form. The PSU

shelf specified by the first digit of the ISCN on the RTERM form must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

- DPIDBs which carry TMC and EOC channels defined on this form must also be defined on an EQIDCU form (5846 Record) with a corresponding PIDB NO. and PIDB TYPE must be set to "PSU".
- The total number of time slot assignments/reservations per DPIDB must not exceed 32 slots; assigned from the RTERM, ODBTS (5905 Record), and DSL (5907 Record).
- SM/ISCN assignments (the first, and, second and third digits), must have a corresponding combination of SM, PSU, PSU SHELF and GRP entered on the PSUGP form (5949 Record).
- Each ISCN entry must have the first character of the ISCN (the SHELF value) assigned on an EQPSUPH form (5742 Record) on the same SM with a matching PSU SHELF.
- Assignment of the ISCN is required if RT INTERFACE is "TR303"; RT EQSTAT must be either "G" or "O".
- All ISCNs must follow the ISDN rules for ISCNs. These include no mixing of ISCNs from other BRI or PRI DSLs in the same SM and no duplication of ISCNs.
- On an IDCU, the ISCNs for EOC and TMC require full time slots; thus each entry must be a multiple of four.
- The following forms can share an ISCN SHELF and CHL GRP (the first three characters of the ISCN) with ISCNs from other forms from this set in the same SM:

AMLBDL

DSL

DSLAP

DSLUSR

MISLINK

ODBRES

OSPSDSL

RTERM

XAT

with all TRUNK forms which have a TRKCLS of:

"EDSL"

"IFTERM"

"IFOPER"

However, they can not have an ISCN SHELF and CHL GRP which are mixed with Protocol Handler assignments from PSISM forms, PSULNK forms, or TRUNK forms which have a TRKCLS of

"PACKET"

"PKTPIPE"

"SPCHNDLR"

"X75"

"X75P"

Each ISCN entry (TMC PRI, TMC NPRI, EOC PRI or EOC NPRI ISCN(s) on the RTERM form must have the SHELF value (the first character of the ISCN) assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

The ISCN must be a unique value within an SM. ISCNs cannot be duplicated on one or more of the following forms:

- AMLBDSL
- CCLNK
- DSL
- DSLAP
- DSLUSR
- MDLNK
- MISLINK
- ODBRES
- OSPSDSL
- PSISM
- RTERM
- TRUNK
- XAT.

If an SM/ISCNs combination has been assigned, then the corresponding combination of SM, PSU, PSU SHELF and GRP must be entered on the PSUGP form.

5.11 TMC PRI

Description: This field defines the Primary Time Slot Management Channel. This channel is used to transmit operations, administration, maintenance and provisioning messages between the IDCU and the TR303 RT. Enter the ISCN, DPIDB, TIME SLOT for the Primary TMC.

Valid TMC PRI Entries	
Entry	Description
0 - 4	ISCN
00 - 15	Position 1, PSU shelf.
000 - 127	Position 2-3, Channel group.
12 - 22	Position 4-6, PH channel, in multiples of 4.
or blank	DPIDB. If blank, switch will select the DPIDB.
0 - 31	TIME SLOT. If blank, switch will select the time slot.
or blank	

Data Rules:

If the TMC PRI DPIDB is entered, a corresponding PIDB NO. must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

5.12 TMC NPRI

Description: Enter the ISCN, DPIDB, and TIME SLOT for the Non-Primary TMC.

Valid TMC NPRI Entries	
Entry	Description
0 - 4	ISCN
00 - 15	Position 1, PSU shelf.
000 - 127	Position 2-3, Channel group.
12 - 22	Position 4-6, PH channel, in multiples of 4.
or blank	DPIDB. If blank, switch will select the DPIDB.
0 - 31	TIME SLOT. If blank, switch will select the time slot.
or blank	

Data Rules:

If the TMC NPRI DPIDB is entered, a corresponding PIDB NO. must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

5.13 EOC PRI

Description: This field defines the Primary Embedded Operations Channel. This channel is used to transmit operations, administration, maintenance and provisioning messages between the IDCU and the PSU for the TR303 RT. Enter the ISCN, DPIDB, and TIME SLOT for the Primary EOC.

Valid EOC PRI Entries	
Entry	Description
0 - 4	ISCN
00 - 15	Position 1, PSU shelf.
000 - 127	Position 2-3, Channel group.
12 - 22	Position 4-6, PH channel, in multiples of 4.
or blank	DPIDB. If blank, switch will select the DPIDB.
0 - 31	TIME SLOT. If blank, switch will select the time slot.
or blank	

Data Rules:

If the EOC PRI DPIDB is entered, a corresponding PIDB NO. must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

5.14 EOC NPRI

Description: Enter ISCN, DPIDB, and TIME SLOT for the Non-Primary EOC.

Valid TMC PRI Entries	
Entry	Description
0 - 4	ISCN
00 - 15	Position 1, PSU shelf.
000 - 127	Position 2-3, Channel group.
12 - 22	Position 4-6, PH channel, in multiples of 4.
or blank	DPIDB. If blank, switch will select the DPIDB.
0 - 31	TIME SLOT. If blank, switch will select the time slot.
or blank	

Data Rules:

If the EOC NPRI DPIDB is entered, a corresponding PIDB NO. must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

```

rterm                      5ESS SWITCH
SCREEN 1 OF 6              OFFICE DATA ADMINISTRATION
(5174-1/2/3/4)            REMOTE TERMINAL

*1. SM                      13. SUP METHOD _____
*2. UNIT TYPE              IDCUC 14. RT VENDOR _____
*3. UNIT NUMBER           ____
*4. RT EX                  ____
#5. RT INTERFACE          _____
#6. RT SID                _____
7. RT MTB                 _____
8. RT ID DPN              _____
9. PWR ALM CLASS          _____
10. PROT LINE             ____
11. CKT TST MTH           NONE
12. BER THRES             4      15. RT EQSTAT _____
                                16. RT LINE SIZE _____
                                17. ENV ALM1 CLASS _____
                                18. ENV ALM1 COND _____
                                19. ENV ALM2 CLASS _____
                                20. ENV ALM2 COND _____
                                TR303 BK OUT
                                22. INH DSL MAINT ____

```

```

rterm                      5ESS SWITCH
SCREEN 2 OF 6              OFFICE DATA ADMINISTRATION
(5174-1/2/3/4)            REMOTE TERMINAL (TR008)

MODE          SHELF A      SHELF B      SHELF C      SHELF D
EQSTAT        23. UNCONC    27. _____ 31. _____ 35. _____
CLI           24. O         28. _____ 32. _____ 36. _____
              25. 00000000  29. _____ 33. _____ 37. _____

```

SHELF A			SHELF B			SHELF C			SHELF D		
39.	CU	01/02	51.	CU	25/26	63.	CU	49/50	75.	CU	73/74
40.	CU	03/04	52.	CU	27/28	64.	CU	51/52	76.	CU	75/76
41.	CU	05/06	53.	CU	29/30	65.	CU	53/54	77.	CU	77/78
42.	CU	07/08	54.	CU	31/32	66.	CU	55/56	78.	CU	79/80
43.	CU	09/10	55.	CU	33/34	67.	CU	57/58	79.	CU	81/82
44.	CU	11/12	56.	CU	35/36	68.	CU	59/60	80.	CU	83/84
45.	CU	13/14	57.	CU	37/38	69.	CU	61/62	81.	CU	85/86
46.	CU	15/16	58.	CU	39/40	70.	CU	63/64	82.	CU	87/88
47.	CU	17/18	59.	CU	41/42	71.	CU	65/66	83.	CU	89/90
48.	CU	19/20	60.	CU	43/44	72.	CU	67/68	84.	CU	91/92
49.	CU	21/22	61.	CU	45/46	73.	CU	69/70	85.	CU	93/94
50.	CU	23/24	62.	CU	47/48	74.	CU	71/72	86.	CU	95/96

87. FTTH ENABLED N	TIP-RING R1		TIP-GRND R2		RING-GRND R3	
	MIN	MAX	MIN	MAX	MIN	MAX
88. PHASE 1 DT FIBR GOOD	0015	0024	0084	0096	0084	0096
95. NO DTM AND FIBR GOOD	0024	0034	0084	0096	0084	0096
102. DROP TEST OK AND FIBR GOOD	0024	0034	0084	0096	0084	0096
109. NO RINGER AND FIBR GOOD	0044	0054	0084	0096	0084	0096
116. DROP FAILS FEMF/LKG AND FIBR GOOD	0054	0064	0084	0096	0084	0096
123. RECVR OFF HOOK AND FIBR GOOD	0064	0074	0084	0096	0084	0096
130. HAZ VOLT DETCTD AT DT AND FIBR GOOD	0074	0086	0084	0096	0084	0096
137. PHASE 1 RT FIBR GOOD	0086	0096	0084	0096	0084	0096
144. FIBR OUT OF FRAME	2500	9999	0084	0096	0084	0096

ROW			ROW			ROW			ROW		
RT	TERM	IFAC	RT	TERM	IFAC	RT	TERM	IFAC	RT	TERM	IFAC
1	—		8	—		15	—		22	—	
2	—		9	—		16	—		23	—	

3	—	10	—	17	—	24	—
4	—	11	—	18	—	25	—
5	—	12	—	19	—	26	—
6	—	13	—	20	—	27	—
7	—	14	—	21	—		
28	—						

```

rterm                               5ESS SWITCH _
SCREEN 6 OF 6                       OFFICE DATA ADMINISTRATION
(5174-1/2/3/4)                     REMOTE TERMINAL (TR303)

TIME SLOT MANAGEMENT CHANNEL (TMC) AND EMBEDDED OPERATIONS CHANNEL (EOC)
160. EOC/TMC BKUP RT TERM 03 ISCN      DPIDB   TIME SLOT
161. PROVISION RT          Y            168. TMC PRI      _____

                                           172. TMC NPRI     _____
                                           176. EOC PRI      _____
                                           180. EOC NPRI     _____

TMC/EOC LAPD PARAMETERS
162. ACKTIMER              150
163. NO RETRANS           03
164. UNACK FRAMES         7
165. SAPI0 FRAME SIZE 32
166. SAPI1 FRAME SIZE 256
167. ACTIVITY TIMER       30

```

Figure 1 SAMPLE RTERM FORM 5E10-5E11 SOFTWARE RELEASES

```

rterm                      5ESS SWITCH
SCREEN 1 OF 7              OFFICE DATA ADMINISTRATION
(5174-1/2/3/4/5)         REMOTE TERMINAL

*1. SM                    _____ 13. SUP METHOD _____
*2. UNIT TYPE             _____ 14. RT VENDOR _____
*3. UNIT NUMBER           _____
*4. RT EX                 _____ TR303 REMOTE TERMINAL
#5. RT INTERFACE          _____ 15. RT EQSTAT          _
#6. RT SID                _____ 16. RT LINE SIZE        _____
  7. RT MTB               _____ TR303 BK OUT
  8. RT ID DPN            _____ 18. INH DSL MAINT      _
  9. PWR ALM CLASS        _____
10. PROT LINE             _____
11. CKT TST MTH          NONE
12. BER THRES             4

```

```

rterm                                5ESS SWITCH
SCREEN 2 OF 7                        OFFICE DATA ADMINISTRATION
(5174-1/2/3/4/5)                   REMOTE TERMINAL (TR303)

```

19. ENVIRONMENTAL ALARMS (ENVALM)

ROW	ALARM CLASS	COND	ROW	ALARM CLASS	COND
1	_____	_____	8	_____	_____
2	_____	_____	9	_____	_____
3	_____	_____	10	_____	_____
4	_____	_____	11	_____	_____
5	_____	_____	12	_____	_____
6	_____	_____	13	_____	_____
7	_____	_____	14	_____	_____

```

rterm                      5ESS SWITCH
SCREEN 3 OF 7              OFFICE DATA ADMINISTRATION
(5174-1/2/3/4/5)          REMOTE TERMINAL (TR008)

```

	SHELF A	SHELF B	SHELF C	SHELF D
MODE	>26. UNCONC	30. _____	34. _____	38. _____
EQSTAT	27. O	31. _	35. _	39. _
CLI	28. 00000000	32. _____	36. _____	40. _____
IFAC	29. _	33. _	37. _	41. _

```

rterm                      5ESS SWITCH
SCREEN 4 OF 7              OFFICE DATA ADMINISTRATION
(5174-1/2/3/4/5)          REMOTE TERMINAL (TR008)

```

SHELF A	SHELF B	SHELF C	SHELF D
>42. CU 01/02 _____	54. CU 25/26 _____	66. CU 49/50 _____	78. CU 73/74 _____
43. CU 03/04 _____	55. CU 27/28 _____	67. CU 51/52 _____	79. CU 75/76 _____
44. CU 05/06 _____	56. CU 29/30 _____	68. CU 53/54 _____	80. CU 77/78 _____
45. CU 07/08 _____	57. CU 31/32 _____	69. CU 55/56 _____	81. CU 79/80 _____
46. CU 09/10 _____	58. CU 33/34 _____	70. CU 57/58 _____	82. CU 81/82 _____
47. CU 11/12 _____	59. CU 35/36 _____	71. CU 59/60 _____	83. CU 83/84 _____
48. CU 13/14 _____	60. CU 37/38 _____	72. CU 61/62 _____	84. CU 85/86 _____
49. CU 15/16 _____	61. CU 39/40 _____	73. CU 63/64 _____	85. CU 87/88 _____
50. CU 17/18 _____	62. CU 41/42 _____	74. CU 65/66 _____	86. CU 89/90 _____
51. CU 19/20 _____	63. CU 43/44 _____	75. CU 67/68 _____	87. CU 91/92 _____
52. CU 21/22 _____	64. CU 45/46 _____	76. CU 69/70 _____	88. CU 93/94 _____
53. CU 23/24 _____	65. CU 47/48 _____	77. CU 71/72 _____	89. CU 95/96 _____

```

rterm                      5ESS SWITCH
SCREEN 5 OF 7              OFFICE DATA ADMINISTRATION

```

(5174-1/2/3/4/5)

REMOTE TERMINAL (TR008)

FIBER TO THE HOME RESISTOR VALUES IN K-OHMS

	TIP-RING R1		TIP-GRND R2		RING-GRND R3	
	MIN	MAX	MIN	MAX	MIN	MAX
>90. FTTH ENABLED Y						
91. PHASE 1 DT FIBR GOOD	0015	0024	0084	0096	0084	0096
98. NO DTM AND FIBR GOOD	0034	0044	0084	0096	0084	0096
105. DROP TEST OK AND FIBR GOOD	0024	0034	0084	0096	0084	0096
112. NO RINGER AND FIBR GOOD	0044	0054	0084	0096	0084	0096
119. DROP FAILS FEMF/LKG AND FIBR GOOD	0054	0064	0084	0096	0084	0096
126. RECVR OFF HOOK AND FIBR GOOD	0064	0074	0084	0096	0084	0096
133. HAZ VOLT DETCTD AT DT AND FIBR GOOD	0074	0086	0084	0096	0084	0096
140. PHASE 1 RT FIBR GOOD	0086	0096	0084	0096	0084	0096
147. FIBR OUT OF FRAME	2500	9999	0084	0096	0084	0096

rterm

5ESS SWITCH

SCREEN 6 OF 7

OFFICE DATA ADMINISTRATION

(5174-1/2/3/4/5)

REMOTE TERMINAL (TR303)

154. RT FAC TERMINATION (RTFACTRM)

ROW		ROW		ROW		ROW	
RT TERM	FAC	RT TERM	FAC	RT TERM	FAC	RT TERM	FAC
1	_____	8	_____	15	_____	22	_____
2	_____	9	_____	16	_____	23	_____
3	_____	10	_____	17	_____	24	_____
4	_____	11	_____	18	_____	25	_____
5	_____	12	_____	19	_____	26	_____
6	_____	13	_____	20	_____	27	_____
7	_____	14	_____	21	_____	28	_____

rterm

5ESS SWITCH

SCREEN 7 OF 7

OFFICE DATA ADMINISTRATION

(5174-1/2/3/4/5)

REMOTE TERMINAL (TR303)

TIME SLOT MANAGEMENT CHANNEL (TMC) AND EMBEDDED OPERATIONS CHANNEL (EOC)

>163. EOC/TMC BKUP RT TERM 03		ISCN	DPIDB	TIME SLOT
164. PROVISION RT	Y	172. TMC PRI	_____	_____
		176. TMC NPRI	_____	_____
		180. EOC PRI	_____	_____
		184. EOC NPRI	_____	_____
TMC/EOC LAPD PARAMETERS				
165. ACKTIMER	150			
166. NO RETRANS	03			
167. UNACK FRAMES	7			
168. SAPI0 FRAME SIZE	32			
169. SAPI1 FRAME SIZE	256			

170. ACTIVITY TIMER 30

Figure 2 SAMPLE RTERM FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 1W: 5161-1 RECORD

SLC-96 OFFICE EQUIPMENT RECORD

1. GENERAL

The 5161-1 Record is available with the 5E2 and later Software Releases. It contains data for individual, 2-party and special service lines terminating on Integrated SLC-96 remote terminals. The 5161-1 Record is an ODA output-only Record. The following input forms provide data to this record.

- SLCCU - SLC-96 Channel Unit Assignment Form
- SLCRT - SLC-96 Remote Terminal Form
- LINE - Telephone Number Line Form
- MLHLN - MLHG Line Form

The SLCCU form provides the SM, DCLU, RT, and LINE numbers that represent the specific Integrated SLEN (SLC-96 Line Equipment Number) entries based on the equipped channel Unit Types.

The following channel Unit Types and services are supported in 5E1, Issue 2, Release 2 Software Releases:

CU TYPE	CHANNELS	SERVICE
DUAL - SP	2	Single party
DUAL - MP	2	2, 4, 8 party
DUAL - PCFSR	2	5PTY or Single party MFR (Multi-Frequency Ringing).
SINGLE - COIN	1	Coin
SINGLE - FXS	1	Non-DID PBX
SINGLE - FXSLS	1	WATS

Each equipped dual channel unit provides two SLEN entries, and each equipped single channel unit provides one SLEN entry on the 5161-1 Record. A SLC-96 remote terminal consists of a maximum of 96 lines and connects to a Digital Carrier Line Unit in the 5ESS Switch via a variable number of T1 lines determined by the mode configuration. 5E1, Issue 2, Release 2 Software Releases support Mode 1 (unconcentrated) or Mode 2 (concentrated) remote terminals. A SLEN (SLC-96 Line Equipment Number) is described as follows:

SM	DCLU	RT	LINE
1 - 192	0 - 7	1 - 6	01 - 96

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48. Offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.

The mode for each SLEN is generated from the SLCRT input form. Figure 1 shows the relationship between shelf modes and line assignments.

The LINE or MLHLN input forms provide the remaining data for each SLEN if assigned to a Telephone Number.

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

The office Base and Control Numbers and the Office Name are specified on each record.

2.2 SM

Description: This field contains the Switching Module number. For offices equipped with CM1 (Communication Module 1) valid entries are 1 - 48. For offices equipped with CM2 (Communication Module 2), valid entries are 1 - 192.
Valid Entries: 1 - 192

2.3 DCLU

Description: This field contains the Digital Carrier Line Unit number.
Valid Entries: 0 - 7

2.4 RT

Description: This field contains the Remote Terminal.
Valid Entries: 1 - 6

2.5 LINE

Description: This field contains the line number. Dual channel units terminate two customers lines (i.e., lines 1/2, 3/4, etc.). Single channel units terminate one customer line. In this case the odd numbered line is used (1, 3, etc.) and the even numbered line is unused. Refer to Figure 1 for LINE to SHELF correspondence.

2.6 CUTYPE

Description: This field contains the channel unit type.

Valid CUTYPE Entries	
Entry	Definition
COIN	Coin.
FXS	Foreign Exchange Ground Start.
FXSLS	Foreign Exchange Loop Start.
SP	Single Party.
MP	Multi-Party.

2.7 MODE

Description: This field contains the mode of the serving remote terminal shelf group. Modes cannot be mixed within a shelf group.

Valid MODE Entries	
Entry	Definition
UNCONC	Mode 1.
CONC	Mode 2.

SLC-96

The following fields will contain data for each SLEN assigned to a working SLC-96 Telephone Number as indicated by an entry on either the LINE or MLHLN input form.

2.8 LCC

Description: This field contains the Line Class Code, which specifies the Class of Service. LCCs are described on the 5306 Record.
Valid Entries: 3 alphanumeric characters

2.9 RAX

Description: This field contains the Rate Center used for routing and charging.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

DIRECTORY NUMBERS

These fields (Section 2.10 - Section 2.11) are used to define the Telephone Number or numbers assigned to each SLEN.

2.10 INDIV TN OR RING PARTY 1

Description: This field contains the seven-digit Telephone Number assigned to an individual line or the ring party of a 2-party line or a Multi-Line Hunt line. Each SLEN assigned to 4 or 8 party service has "refer to 5161-2" in this field. A 5161-2 Record is generated for each SLEN assigned to 4 or 8 party service.

Valid Entries: 7 digits

2.11 TIP PARTY 2

Description: This field contains the seven-digit Telephone Number assigned to the tip party of a 2-party line.

Valid Entries: 7 digits

2.12 MLHG

Description: This field contains the Multi-Line Hunt Group number if the line is a member of a Multi-Line Hunt Group.

Valid Entries: 1 - 2000

2.13 MEMB

Description: This field contains the MLHG member number if the line is a member of a Multi-Line Hunt Group.

Valid Entries: 1 - 2015 or

3001 - 3999 (Outdial Terminals Only)

2.14 REMARKS

Description: This field contains the remarks indicated on either the LINE or MLHLN input form.

For 5E2 and later, if PTY is "I" on the LINE form, or if PTY is 1 - 4 and MFRI (Multi-Frequency Ringing Individual) is "Y", or if only one Telephone Number entry on the LINE form with PTY of "T" or "R" is present for a given Line Equipment Number, then this is the remark from the LINE form. If both PTY is "T" and "R" are present for a given LEN, then this is the remark from the LINE form for the TN entry on the Line form with PTY of "R".

SHELF GROUP	SHELF	SHELF
AB	A	1 - 24
AB	B	25 - 48

CD	C	49 - 72
CD	D	73 - 96
UNCONCENTRATED		
SHELF GROUP	SHELF	SHELF
AB	A, B	1 - 48
CD	C, D	49 - 96
CONCENTRATED		

Figure 1 INTEGRATED SLC-96 RELATIONSHIP OF SHELVES AND LINES

SEC. 1X: 5161-2 RECORD

SLC-96 OFFICE EQUIPMENT RECORD - 4 AND 8 PARTY

1. GENERAL

The 5161-2 Record is available with the 5E1 and later Software Releases. This record is used to define the Telephone Numbers of a 4 or 8 party Integrated SLC-96 SLEN (Line Equipment Number).

The 5161-1 Record is used to define individual, 2 party or special service lines.

The 5161-2 Record is not intended for ODA input, and therefore has no unique ODA form associated with it. The following input forms provide data to this record:

- SLCCU-SLC-96 Channel Unit Assignment Form
- LINE-Telephone Number Form

The SLCCU form provides the IM, DCLU, RT and LINE numbers that represent the specific Integrated SLEN entries based on the equipped channel unit types.

The following channel unit type is supported multi-party service:

CU TYPE CHANNELS SERVICE

DUAL - MP 2, 4, 8 party

Each equipped dual channel unit provides two SLEN entries on the 5161-2 Record.

A SLC-96 Remote Terminal consists of a maximum of 96 lines and connects to a Digital Carrier Line Unit in the 5ESS Switch via a variable number of T1 lines determined by the mode configuration. 5E1 and later Software Releases supports MODE 1 (unconcentrated) or MODE 2 (concentrated) Remote Terminals. A SLEN is described as follows:

SM DCLU RT LINE

1-192 0-7 1-6 01-96

For 5E2, Issue 2 and later Software Releases, offices equipped with CM1 (Communication Module 1) valid entries for SM are 1-48. Offices equipped with CM2 (Communication Module 2), valid entries are 1-192.

The mode for each SLEN is generated from the SLCRT input form. Figure 1 shows the relationship between shelf modes and line assignments.

The LINE input forms provide the remaining data for each SLEN if assigned to a Telephone Number.

2. RECORD ENTRIES

2.1 BASE AND CONTROL GROUP, ESS UNIT

The office base and control group numbers and the office name are specified on each record.

2.2 SM

Description: These columns contain the Switching Module number.

Valid Entries:

CM1 (Communication Module 1): 1 - 48

CM2 (Communication Module 2): 1 - 192

2.3 DCLU

Description: These columns contain the Digital Carrier Line Unit number.

Valid Entries: 0 - 7

2.4 RT

Description: These columns contain the Remote Terminal.

Valid Entries: 1 - 6

2.5 LINE

Description: These columns contain the line number assigned to 4 or 8 party service.

2.6 TELEPHONE NUMBERS

Description: These columns are used to define the Telephone Number or numbers assigned to each SLEN serving 4 and 8 party lines.

2.7 PARTY 1 to PARTY 8

These columns contain the seven digit Telephone Number assigned to each of the party lines.

UNCONCENTRATED		
SHELF GROUP	SHELF	LINES
AB	A	1-24
AB	B	25-48
CD	C	49-72
CD	D	73-96
CONCENTRATED		
SHELF GROUP	SHELF	LINES
AB	A,B	1-48
CD	C,D	49-96

Figure 1 INTEGRATED SLC96 RELATIONSHIP OF SHELVES AND LINES

SEC. 1Y: ESS 5171-1 RECORD OFFICE EQUIPMENT RECORD - 1 AND 2 PARTY

1. GENERAL

The 5171-1 Record is used to define the office Line Unit equipment assignments for Telephone Numbers. This Record is used in offices providing 1- and 2-party service for both MFR (Multifrequency Ringing) and non-MFR customers. The 5171-2 Record is used in offices providing 4- and 8- party service and 5- and 10- party Multi-Frequency Ringing. The 5171-1 Record is not intended for ODA input, but does correspond to entries on the LINE and MLHLN input forms. The EQLU and EQLUP forms define the valid Line Units and associated LENS that are equipped in the office.

A 5ESS Switch Office containing one Switching Module requires 32 5171-1 Records to define the Office Equipment.

An Office Equipment location is described as follows:

- Switching Module - XXX
- Line Unit - X
- Concentrators - X
- Switch Group - X
- Switch - X
- Level - X

The 5ESS Switch offers four concentration ratios for line equipment. They are 4:1, 6:1, 8:1, and 10:1. These ratios are applied based on the number of grids equipped in a Line Unit. 10:1 concentration ratio is available with 5E3 and later Software Releases.

Valid XXXX Entries	
Entry	Definition
EQUIPPED	CONCENTRATION
CONCENTRATORS	RATIO
0-9	10:1
0-7	8:1
0-5	6:1
0-3	4:1

A 5ESS Switch office may not mix concentration ratios. However, a Host 5ESS Switch office may have a different Concentration Ratio than the RSM (Remote Service Module). With 5E3 and later Software Releases, Concentrators 8 and 9 are only valid for LU3 Line Units with Line Unit Type of 3AA1.

2. FORM ENTRIES

2.1 BASE AND CONTROL, OFFICE

Description: Enter the Base and Control number and Office Name on each page of the record.

2.2 SM

Description: Enter the Switching Module number.

Valid Entries: 1 - 192

2.3 LINE UNIT

Description: Enter the Line Unit number.
Valid Entries: 0 - 7

2.4 CONC

Description: Enter the Conc number.
Valid Entries: 0 - 9

2.5 SWITCH GROUP

Description: Enter the Switch Group Number.
Valid Entries: 0 - 1

2.6 SWITCH

Description: The Switch number is pre- printed on the ESS 5171-1 Record.
Valid Entries: 0 - 7

2.7 LEVEL

Description: The level number is pre- printed on the ESS 5171-1 Record.
Valid Entries: 0 - 3

2.8 LCC

Description: The LCC (Line Class Code) is a 3-character alphanumeric that describes the class of service of a Telephone Number. LCC's are described on the ESS 5306 Record.
Valid Entries: 3 characters

2.9 RAX

Description: Enter the Rate Area that should be used for routing and charging.
Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

2.10 DIRECTORY NUMBERS

Description: These columns are used to define the Telephone Number(s) associated with each Line Equipment Number. Enter the 7-digit Telephone Number assigned to one of the following types of lines:

INDIV TN or Ring Party 1:

- Single party line (MFR or non-MFR):
 - MFRI is "Y" and PTY is 1 - 9, 0
 - MFRI is "N" and PTY is "I"

- Two party line-Ring (MFR or non-MFR):
 - MFRI is "N" and PTY is "R"
 - MFRI is "N" and PTY is 1 - 5 and LCC/RAX corresponds to a LCC form with Class Of Service equal to "2PTY".

TIP PARTY 2:

- Two party non-MFR where MFRI is "N" and PTY is "T" and the LCC/RAX corresponds to a LCC input form with Class Of Service equal to "2PTY".
- Two party MFR where MFRI is "N" and PTY is 6 - 9, 0 and the LCC/RAX corresponds to a LCC form with Class Of Service equal to "2PTY".

If the LEN value is associated with one of the following multiparty Class Of Service, then this field indicates the flag name "MULTPTY" and a corresponding 5171-2 Record is generated showing all TNs that share the same LEN:

Multiparty Class Of Service	
LCC Form Class Of Service	Multiparty Type
4PFS	4-party fully selective
4PSS	4-party semi selective
8PSS	8-party semi selective
5PTY	5-party MFR (ringside only)
10PTY	10-party MFR

2.11 MLHG

Description: This entry is the MLHG number taken from the MLHLN (Multi-Line Hunt Group Member) form.

2.12 MEMB

Description: This entry is the Member Number taken from the MLHN form. If the Member Number also has a Telephone Number assigned, the TN must be entered in the Party 1 field.

2.13 REMARKS

Description: This field corresponds to the RMK input on the LINE and MLHLN input forms. Print any 16 characters for the following cases:

- If a LEN is assigned on the MLHLN form, then Remarks corresponds directly to RMK input field.
- If a LEN is assigned on LINE form and MFRI is "N", and PTY is "I", then Remarks corresponds directly to RMK input field.
- If an LEN is on the LINE form and MFRI is "Y", and PTY is 1 - 9, 0 (MFR Individual Line), then Remarks corresponds directly to RMK input field.
- If an LEN is on the LINE form and PTY is "T" or "R", but only one of the Telephone Numbers of the 2-parties is assigned, then the Remarks corresponds directly to that assigned Tip or Ring entry.

- If an LEN is on LINE form and MFRI is "N", and PTY is 1 - 9, 0 and LCC/RAX corresponds to Class Of Service equal to "2PTY" (2-party MFR) but only one of the tipside or ringside frequency customers is assigned to the LEN, then the Remarks correspond directly to that entry.
- If an LEN is on the LINE input form and Class Of Service is 2-party (MFR or non-MFR), and both Tip and Ring parties are assigned, then the Remarks field will correspond to the RINGSIDE Telephone Number RMK field.

Remarks will not be printed by 5ODA for multiparty (MFR or non-MFR) entries.

Valid Entries: 1 - 16 characters

SEC. 1Z: ESS 5171-2 RECORD

OFFICE EQUIPMENT RECORD - 4 AND 8 PARTY AND 5 AND 10 PARTY MFR

1. GENERAL

The ESS 5171-2 Record is used to define the office equipment assignments for Telephone Numbers. This record is used in offices providing 4- and 8- party and 5- and 10- party service. The 5ESS 5171-1 Record is used in offices providing 1- and 2- party service. The 5ESS 5171-2 Record is not intended for ODA input, and therefore has no unique ODA form associated with it.

A 5ESS office containing one Switching Module will require 64 ESS 5171-2 Records to define the office equipment.

An Office Equipment location is described as follows:

- Switching Module - XXX
- Line Unit - X
- Concentrator - X
- Switch Group - X
- Switch - X
- Level - X

The 5ESS offers three concentration ratios for line equipment. They are 4:1, 6:1, and 8:1. These ratios are applied based on the number of concentrators equipped in a Line Unit.

EQUIPPED CONCENTRATORS	CONCENTRATION RATIO
0-7	8:1
0-5	6:1
0-3	4:1

A 5ESS Office may not mix concentration ratios. However, a Host 5ESS office may have a different Concentration Ratio than the RSM (Remote Service Module).

Telephone Numbers that require Essential Service Protection, which is part of the Overload Control Capability, must be assigned to a Line Equipment Number that has been designated as Essential. When a 5ESS office is in an overload condition and the Overload Control is turned on, then all lines designated Essential Lines have the Essential Service Protection feature and would receive priority origination scanning.

There is no limit on the quantity of LENS or particular LEN values that can be assigned as Essential Lines except for the following restriction:

To make sure there is no internal blocking on origination scanning, there should be only one LEN assigned, EL equal to "Y" Yes from a group of four LENS that share the same first seven digits of their LEN. Example:

External LEN breakdown

SM	LU	CONC	SWG	SW	LEV

1 -192	0 -7	0 - 7	0 - 1	0 - 7	0 - 3

There are four level values 0 through 3 for a given 7-digit value of SM/LU/CONC/SWG/SW. Only one of the four LEVs should have EL equal to "Y".

LEN	00	1	3	0	0	4	0
LEN	00	1	3	0	0	4	0
LEN	00	1	3	0	0	4	2
LEN	00	1	3	0	0	4	3

It is recommended that Essential Lines be distributed evenly across the Line Equipment Numbers. Care should be given to assign to an Essential Line only those customers that actually require Essential Service Protection.

Most customer lines are loop-start lines that generate an origination by closing the path between the tip and ring at the station set (forming a loop). Scanning is done at the Central Office by applying a voltage between the tip and ring and sensing the loop current flow produced by the customer line origination. Ground Start lines (e.g., coin-first coin phones and PBX-CO trunks) generate an origination by grounding the ring conductor at the station set. Scanning is done at the Central Office by applying a voltage with respect to ground on the ring conductor and sensing the current flow in the ring conductor produced by the customer line origination. Since certain PBX's interpret a ground on the tip conductor to mean something else (disconnect, etc.), the tip conductor at the Central Office is disconnected during scanning on Ground Start Lines. The tip conductor is disconnected under software control in the 5ESS. Thus, any Line Equipment Number may be assigned as Ground Start. Ground Start should be entered as an equipment option on the ESS 5100-1 Record.

2. FORM ENTRIES

2.1 BASE AND CONTROL, OFFICE

Enter the Base and Control number and Office Name on each page of the record.

2.2 SM

Description: Enter the Switching Module number.

Valid Entries:

For CM1: 1 - 48

For CM2: 1 - 192

2.3 LINE UNIT

Description: Enter the Line Unit number.

Valid Entries: 0 - 7

2.4 CONC

Description: Enter the Concentrator number.

Valid Entries: 0-7.

2.5 SWITCH GROUP

Description: Enter the Switch Group number.
Valid Entries: 0 - 1

2.6 SWITCH

Description: Enter the Switch number taken from the ESS 5171-1 Record for the corresponding multiparty TN entry and is printed on the ESS 5171-2 Record.
Valid Entries: 0 - 7

2.7 LEVEL

Description: Enter the Level number taken from the ESS 5171-1 Record for the corresponding multiparty TN entry and is printed on the ESS 5171-2 Record.
Valid Entries: 0 - 3

2.8 TELEPHONE NUMBERS

Description: These columns are used to display the Telephone Numbers associated with each Office Equipment Location.

2.9 REMARKS

Description: This field may be used to record short comments which consists of alphanumeric and blanks.
These columns are not populated from input form - for machine owner use only.

SEC. 1AA: 5172-1 RECORD LINE CARD EQUIPMENT NUMBER RECORD

1. GENERAL

The 5172-1 Record is available with 5E4(2) and later Software Releases. It is an ordered listing of LCENs (Line Card Equipment Numbers) that reside on a RISLU (Remote Integrated Services Line Unit) or an ISLU (Integrated Services Line Unit). The only LCENs that appear on this Record are those that are defined on an ISLULC form (5942 Record). Only operational Line Cards have entries; a Line Card is operational if the EQST field on the ISLULC form has an entry of "O" (Operational).

For the 5E4(2) Software Release, LCENs are assigned on the following forms:

- DSL (5900-1 Record)
- DSLAP (5963 Record)
- DSMLHLN (5901-1 Record)
- LINE (5109-1 Record)
- MLHLN (5111-1 Record)
- OSPSDSL (5411 Record)

An OPSDSL form may have up to two LCENs (LCEN and MATE LCEN).

For 5E5 and later Software Releases, LCENs are assigned on these same forms with the following exception: the DSL form (5907-1 Record) and DSLUSR form (5908-1 Record) replace the DSL form (5900-1 Record) and DSMLHLN form (5901-1 Record).

The LCEN is comprised of a SM (Switching Module), (R)ISLU, LGC (Line Group Controller) and Line Card. The first three digits of the LCEN are the SM, the next digit is the (R)ISLU, the next two digits are the LGC and the last two digits are the Line Card value. The SM, (R)ISLU and LGC numbers are located in the upper right-hand corner of the record.

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 SM

Description: Switching Module number.
Valid Entries: 1-192

2.3 (R)ISLU

Description: (Remote) Integrated Services Line Unit number.
Valid Entries: 1-7

2.4 LGC

Description: Line Group Controller number.
Valid Entries: 01 - 15

2.5 LINE CARD

Description: Values 00 - 31 are preprinted on the record.

2.6 FORM

Description: This column contains the names of the forms used to assign lines to operational ISLU Line Cards. Valid form names are: DSL, DSLAP, DSLUSR (5E5 and later Software Releases), DSMLHLN (5E4(2) Software Release), LINE, MLHLN and OSPSDSL.

2.7 KEY1

Description: The KEY1 column contains the value of the first key field on the corresponding form listed in the FORM column. The following field values may appear:

- CKT TN on the DSL form (optional key - 5E4(2) Software Release)
- DSL OE on the DSL form (5E5 and later Software Releases)
- AP SITE ID on the DSLAP form
- CKT TN on the DSLUSR form (optional key - 5E5 and later Software Releases)
- CKT MLHG on the DSMLHLN form (optional key - 5E4(2) Software Release)
- TN on the LINE form
- MLHG on the MLHLN form.

No value exists for OSPSDSL since its only key field is LCEN which is already included on this Record.

2.8 KEY2

Description: The KEY2 column contains the value of the second key field on the corresponding form listed in the FORM column. The following field values may appear:

- PKT TN on the DSL form (optional key - 5E4(2) Software Release)
- DPKT TN on the DSLUSR form (optional key - 5E5 and later Software Releases)
- CKT TERM on the DSMLHLN form (optional key - 5E4(2) Software Release)
- TERM on the MLHLN form.

2.9 KEY3

Description: The KEY3 column contains the value of the third key field on the corresponding form listed in the FORM column. The following field values may appear: PKT MLHG on the DSMLHLN form (optional key - 5E4(2) Software Release) and ODB TN on the DSLUSR form (optional key - 5E5 and later Software Releases).

2.10 KEY4

Description: The KEY4 column contains the value of the fourth key field on the corresponding form listed in the FORM column. The following field values may appear: PKT TERM on the DSMLHLN form (optional key - 5E4(2) Software Release) and CKT MLHG on the DSLUSR form (optional key - 5E5 and later Software Releases).

2.11 KEY5

Description: This column is available with 5E5 and later Software Releases. The KEY5 column contains the value of the fifth optional key field (CKT TERM) on the DSLUSR form.

2.12 KEY6

Description: This column is available with 5E5 and later Software Releases. The KEY6 column contains the value of the sixth optional key field (DPKT MLHG) on the DSLUSR form.

2.13 KEY7

Description: This column is available with 5E5 and later Software Releases. This column contains the value of the seventh optional key field (DPKT TERM) on the DSLUSR form.

2.14 REMARKS

Description: This column contains remarks entered in the RMK field on the form listed in the FORM column. When the OSPSDSL form is listed, the value of the SERVICE CLASS field on the OSPSDSL form will appear in this column.

SEC. 1AB: 5173 RECORD TELEPHONE NUMBER ASSIGNMENT RECORD

1. GENERAL

The 5173 Record is an output only record that is used to list all the TNs (Telephone Numbers) assigned in the office. The list is sorted by the TN values.

2. RECORD ENTRIES

2.1 TELEPHONE NUMBER

Description: This field contains the TN.

2.2 TN TYPE

Description: This field specifies if the telephone number is used for circuit ("CKT") or packet ("PKT") service or for both circuit and packet ("BOTH").

2.3 FORM

Description: This field identifies the form on which the telephone number is defined: ACQS, AMLBDSL, DSL, DSLUSR, LINE, MLHG, MLHLN, MTNDR, MULTITN, PSMTN, SHTN, or XAT.

2.4 KEYFIELDS

Description: This field contains the key fields from the form on which the telephone number appears. The keys for each form are listed in the following table.

Form Name	Key Fields
ACQS	NPA + NXX + BEGLINE + ENDLINE (Optional)
AMLBDSL	LCEN
DSL	DLSE
DSLUSR	CKT TN or CKT MLHG/TERM DPKT TN or DPKT MLHG/TERM ODBTN or ODB MLHG/TERM
LINE	TN
MLHG	MLHG
MLHLN	MLHG/TERM
MTNDR	TN
MULTITN	TN
PSMTN	PKT TN
SHTN	TN MLHG/TERM NBR
XAT	PKT TN PTK MLHG/TERM NBR

SEC. 1AC: 5119 RECORD MAKE BUSY CALL TERMINATION TYPES - MKBCTT FORM

1. GENERAL

The 5119 Record is available with 5E6 and later Software Releases. The MKBCTT form (Make Busy Call Termination Types) is used to specify the call termination types (hunt only, nonhunt only or both) that are affected by a particular make busy type and scan point, subgroup or terminal:

- **RANDOM MAKE BUSY** - This feature provides the ability to apply artificial busy to any number of members of a non-ISAT MLHG.
- **MEMBER MAKE BUSY** - This feature provides the ability to apply artificial busy to 1 to 32 terminals within a non-ISAT MLHG.
- **POSITION MAKE BUSY** - This feature allows a single terminal within an ISAT MLHG to be made busy.

It is also used to specify the owner for a RMB subgroup. If a particular MMB (Member Make Busy) RMB (Random Make Busy) or PMB (Position Make Busy) feature does not have this form filled out, then the feature is assumed to apply to hunted call terminations only.

This form has a quintuple key set, of which three are entered. The MLHG and make busy feature type are always entered, while one of the following is entered: SPN, SUBGP, TERM.

1.1 Recent Change View

The corresponding Recent Change View for this form is 3.9.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MLHG

Description: This field is used to enter the Multi-Line Hunt Group Number to which the CALL TERM TYPE will apply.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

2.3 * MKB TYPE

Description: This field is used to enter the type of Make Busy features to which the CALL TERM TYPE will apply.

Valid MKB TYPE Entries	
Entry	Definition
MEMBER	Member Make Busy.
POSITION	Position Make Busy.
RANDOM	Random Make Busy.

Data Rules:

When MKB TYPE of "POSITION" is entered, the TERM must be entered (SPN and SUBGROUP cannot be used).

2.4 (*) SPN

Description: This field is used to enter the scan point which is used as a Make Busy Key.

Valid Entries: A scan point number consisting of:

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

Data Rules:

When this optional key is entered it must be assigned at least once as one of the following:

LINE form: MAKE BUSY KEY, RND MKB

MLHLN form: MAKE BUSY KEY, RND MKB

DSLUSR form: RMB, RND MKB

2.5 (*) SUBGP

Description: This field is used to enter the Make Busy Subgroup Number.

Valid Entries: 1 - 255

Data Rules:

When this optional key is entered it must be assigned at least once as one of the following:

DSLUSR form: MMB SUBGP, RMB SUBGP

SHTN form: MMB SUBGP, RMB SUBGP

2.6 (*) TERM

Description: This field is used to enter the MLHG Terminal.

Valid Entries: 1 - 2015

Data Rules:

When this optional key is entered it must be assigned to the following:

DSLUSR form: CKT TERM

2.7 CALL TERM TYPE

Description: This field is used to enter the type of call terminations.

Default: HUNT

Valid Entries:

I

Valid CALL TERM TYPE Entries	
Entry	Definition
HUNT	Calls to hunted DNs that attempt to terminate to a terminal affected by the Make Busy will be treated as if the terminal were busy.
NONHUNT	Call to nonhunted DNs that attempted to terminate to a terminal affected by the Make Busy will be treated as if the terminal were busy.
BOTH	Calls to hunted & nonhunted DNs that attempt to terminate to a terminal affected by the Make Busy will be treated as if the terminal were busy.

Data Rules:

When two or more Make Busy keys, subgroups or buttons affect a single terminal, only one of the make busy features is allowed to affect nonhunt call termination type (CALL TERM TYPE equals "NONHUNT" or "BOTH"), the other make busy features must affect only hunt call termination types (CALL TERM TYPE equal "HUNT").

2.8 RND OWNER

Description: This field is used to enter the MLHG member which owns a Random Make Busy subgroup's activation/deactivation button.

Valid Entries: 1 - 2015

Data Rules:

A RND OWNER can be entered only when the MKB TYPE is "RANDOM" and a SUBGP has been entered.

MLHG and RND OWNER must be defined as CKT MLHG and CKT TERM on a DSLUSR form. The RND SUBGP on the DSLUSR form must equal SUBGP on MKBCTT form. CONFIG GRP on DSLUSR must be defined on a CFGGRP form with at least one ACTION equal "BYRB". A RMB subgroup owner must be in the subgroup and have a RMB button.

```

mkbctt          5ESS Switch          _
(5119)          OFFICE DATA ADMINISTRATION
                MAKE BUSY CALL TERMINATION TYPES

    *1. MLHG          45
    *2. MKB TYPE      MEMBER
(*) 3. SPN           001000301
(*) 4. SUBGP         _
(*) 5. TERM          _
    6. CALL TERM TYPE HUNT
    7. RND OWNER     _

```

Figure 1 SAMPLE MKBCTT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 1AF: 5177 RECORD NUMBER POOLING FOR INDIVIDUAL TN - NPOOL

1. GENERAL

1.1 Number Pooling Definition

The Number Pooling for Individual TN form allows the craft to insert, review, update, and delete ported or reserved individual TNs.

1.2 Recent Change View

The corresponding Recent Change View for NPOOL is 1.7.

2. FORM ENTRIES - 5177 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 TN

Description: The TN field is used to enter an individual telephone number.

Software Release: 5E14 and later

Valid Entries: A 7 or 10 digit telephone number of the form XXXXXXXX or NXXXXXXXXX where *N* is a number from 2 to 9 and *X* is a number from 0 to 9.

Data Rules:

ACT must be "Y" for SFID 530 and for SFID 174 on the SFSYS form.

TN must have a valid NXX, NPA and/or OFFICE CODE that is defined on the NOC form.

When TN is 7 digits and the first 3 digits are equal to an OFFICE CODE that is defined on more than one NOC form, a 10 digit TN must be used.

When either VCDX OFFICE or DRM is "Y" on the EQCORE form, the number of NPOOL forms cannot exceed 8,000.

When both VCDX OFFICE and DRM are "N" on the EQCORE form, the number of NPOOL forms cannot exceed 800,000.

2.3 PORTED OUT

Description: Is this telephone number ported out?

Software Release: 5E14 and later

Default: N

Valid Entries: Y, N

npool 5ESS Switch
(5177) OFFICE DATA ADMINISTRATION
NUMBER POOLING FOR INDIVIDUAL TN

```
*1.  TN
    2.  PORTED OUT N
```

Figure 1 SAMPLE NPOOL FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 2: TRUNK FORMS

SEC. 2A: 5202-1/2/3/4/5/6/7/8/9 RECORD TRUNK GROUP FORM - TKGRP

1. GENERAL

1.1 Trunk Group Definition

The 5202 Records are used to define each Trunk Group in a 5ESS Switch. The trunk information that is entered on these records is information that is common to the entire group. Trunk information for an individual member is entered on a TRUNK form (5204 Record).

1.2 Common Channel Signaling

CCS (Common Channel Signaling) is available with 5E3 and later Software Releases. CCS is identified on a trunk group basis by the INPULSING or OUTPULSING fields equal to "CCIS6" (Domestic North American version) or "ISUP7" (CCIT No. 7 ISDN User Part), unless the trunk group is for SIP-T packet groups, in this case even though it has INPULSING/OUTPULSING set to ISUP7, it does not signal via CCS7.

For 5E7 and later, CCS trunks with INPULSING and/or OUTPULSING equal to "CCIS6" or "ISUP7" require the DEN, TEN or (for 5E9(2) and later) NEN fields to be entered on the corresponding TRUNK form.

1.3 Trunk Classes

For 5E4(2) and later, the following trunk classes were added to the 5202-1 Record: "FIOPR", "FOPRI", "FOPRT", "RAFANNC", "RAFDTA", "RAFCTR", "TCIKT", and "TCITT". Additionally, the TRK DIR value "RAF" was added for the recorded announcement function. These values are for the OSPA (Operator Services Position System) toll and assistance feature.

For 5E4(2) and later, two new trunk classes, "TOPAS" and "RMSD3", were added to the 5202-1 Record. The new values are for toll offices that employ the TOPAS (Testing, Operations, Provisioning and Administration System) Operations System.

For 5E5 and later, the "RAFDTA" trunk class can be used with RACF (Remote Activation of Call Forwarding) and ACSR (Automatic Customer Station Rearrangement).

For 5E5 and later, two new trunk classes, "IFOPER" and "IFTERM", were added for the EDSLs (PRI) of the OSPA Interflow capability. "IFOPER" defines an outgoing Interflow trunk, and "IFTERM" defines an incoming Interflow trunk.

For 5E6 and later, the "RAFDTA" trunk class can be used for ASP (Advanced Services Platform; previously PVN, Private Virtual Network) services and LASS Selective Features.

1.4 EDSL

The EDSL (Extended Digital Subscriber Line) feature is available with 5E4(2) and later Software Releases. EDSL B-channels and D-channels are assigned to trunks with an "EDSL" or "EDSLHM" service class and a Trunk Direction of incoming, outgoing or 2-Way. EDSL features can be assigned on a dedicated basis or Call-by-Call basis. An EDSL B-channel Trunk Group may contain B-channels from more than one T1 facility and Switching Module.

EDSL D-channels will also be assigned to trunks with an EDSL service class and a Trunk Direction of "SGNL". D-channel trunks are nailed-up trunks and are not hunted. D-channels must be in a separate Trunk

Group from the B-channels. D-channels are defined on the TRUNK form with 24 or 48 entered in the last two digits of the DEN. B-channels are defined with 01 - 23 as the last two digits of the DEN.

Data Rules:

For 5E12 and later, when TRK DIR is "SGNL", all EDSL/PRI fields must not be entered.

1.5 Release Link Trunks

RLTs (Release Link Trunks) are provided between a main switch and branch switches to enable the attendant to implement Centralized Attendant Services. The 5ESS Switch can function as either a main or a branch switch. See Division 2, Section 1AI for more information on CAS and RLTs.

1.6 CCS7

CCS7 (Common Channel Signaling System Number 7) trunks are trunks which have INPULSING/OUTPULSING equal to "ISUP7", unless the trunk group is for SIP-T packet groups, in this case even though it has INPULSING/OUTPULSING set to ISUP7, it does not signal via CCS7. When installing CCS7 trunks which connect two networks, for example a LEC (Local Exchange Carrier) and a long distance carrier, the following unenforced rules apply.

The TO (Toll Office) must have a TRKCLS of "LATA". A TO is any switch within an IC (InterLATA Carrier) or INC (International Carrier) network.

"LATA" trunks can connect to LEC switches which are either EO (End Office) or AT (Access Tandem) switches. AT switches allow calls to be distributed to or concentrated from appropriate EO(s). The EO or AT end must have a TRKCLS of "IC". An EO or AT is any switch that is within the LEC network.

"IC" trunks can connect to far switches which may be any one of the following carrier types: IC, INC or Consolidated Carrier. Use of these TRKCLS values, for trunks that cross the network boundary, is necessary to utilize the ISDN ISUP7 protocol for internetwork operations.

NOTE: CCS7 does not apply to trunk groups associated with SIP-T packet groups, even though they have INPULSING/OUTPULSING set to ISUP7.

1.7 X.75 Gateway

The X.75 Gateway to Public Data Networks with X.121/E.164 Interworking feature, available with 5E6 and later Software Releases, provides X.75 gateway on the switch to interconnect to packet Interexchange carriers (interLATA traffic) and to independent operating companies' packet switch networks (intraLATA traffic). A maximum of 255 X.75 trunk groups may exist at one time. Each X.75 trunk group may contain at most twenty-four trunk members.

1.8 X.75' Packet Trunks

The X.75' packet trunk interface allows a 5ESS Switch owned by a LEC (or similar operating company environment) to connect with a PPSN (Public Packet Switched Network) owned by the same LEC where both switches exist in the same LATA (or in similarly restricted geographical regions of local control). Each 5ESS Switch can access the PPSN by either a direct X.75' interface or via an IP trunk group to another 5ESS Switch that has an X.75' interface.

For 5E8 and later, a maximum of 255 X.75' trunk groups may exist at one time. Each trunk group may have at most twenty-four trunk members.

1.9 Recent Change View

The corresponding Recent Change View for TKGRP is 5.1.

2. FORM ENTRIES - 5202-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TGN

Description: Enter the number of the Trunk Group being defined.

Valid Entries: Specifies the number of trunk groups being defined.

For 5E14 and earlier: 1 - 4000

For 5E15(1) and 5E16(1): 1 - 4000, or 7000 - 7999 for BICC group

For 5E16(2) and later: 1 - 4000

Maximum number of trunk groups assigned per SM is 120.

Maximum number of trunk groups with TRKCLS of PACKET is 16.

Maximum number of trunk groups with TRKCLS of "X75" or "X75P" is 255.

Maximum number of trunk groups assigned per SM-2000 without QLPS is 120.

Maximum number of trunk groups assigned per SM-2000 with QLPS is 2000.

Maximum number of trunk groups assigned per SM-2000 with QLPS is 4000 when using the Increased Number of Trunk Groups (SFID 172) secured feature that has been purchased using the Secured Feature Upgrade View (8.22).

Maximum number of trunks groups associated with SIP-T (Session Initiation Protocol for Telephones) Packet Groups is 1000.

*RESTRICTED USAGE: Not supported by EADAS. WARNING: Your OS (Operation System) may not support this feature resulting in a loss of Traffic 30 Measurements. This feature was intended for independent LECs only.

Data Rules:

Trunk Groups of Network Management concern, those monitored by the EADAS/NM system, must be numbered less than 1024.

The maximum number of trunk groups that can be assigned to a Switching Module is 120.

For 5E10 and later:

When TGN/MEMB(s) are assigned to a Time of Day Feature on either the TRUNKFA form or an associated CLUSTR form, the Trunk Group (TGN) must also be defined on the TKGRP form with a TRKCLASS of

"LATA", "PF", or "PFLASH".

If the TGN is on an ARSTPA form, or if it is assigned an ARS (Automatic Route Selection) feature on either the TRUNKFA form or the TKGRPFA form or an associated CLUSTER form, then all following conditions must hold true:

- The associated TRKCLS on the TKGRP form must be entered as "LATA".
- TGN/MEMB/FEATURE must be defined on ARSTPA where (FRL LINE is set to 16 and DIAL PLAN is set to "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN is set to "ODP") .
- If ARSTPA form is not found, then the FEATURE must be defined on ARSFD where (FRL LINE is set to 16 and DIAL PLAN is set to "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN is set to "ODP") .
- The FEATURE must be defined on ARSFD where ENTRY is set to "AUTO".

For 5E13 and later:

When TGN(s), defined on the TKGRP form, have TRKCLS set to "IC" or "LTOLLCON", the QUEUE FEATURE entered on the TKGRP form must be defined on a QUFD form and the associated QUEUE TYPE must be "HPCOHQ".

When TGN(s), defined on the TKGRP form, has SVC GRP set to "RAS" and ROUTE INDEX on the RTIDX form matches a ROUTE INDEX on the FIXRT form and ROUTE TYPE is set to "2LEVEL", "ACSR", "SLE", or "NPA_SP", then a ANNAPL form must exist with APPLICATION set to "2LEVEL", "ACSR", "LASS", or "NPA_SP".

For 5E15 and later:

When TGN is 7000 - 7999 or 1 - 4000 (for 5E16(2) and later):

BICC GRP must be equal to TGN.

The ACT field for SFID 567 on the SFSYS form (5713 Record) must be set to "Y".

When TGNs, defined on the TKGRP form, have a TRKCLS of "3GPD", all corresponding trunk members of this trunk group on the TRUNK form must have a UEN specified.

When TGNs are defined on the TKGRP form with TRKCLS equal to "3GPD", the ACT field for SFID 285 on the SFSYS form (5713 Record) must be set to "Y". This TRKCLS value is used for the CDMA (Code Division Multiple Access) Cellular Packet Data Services secured feature.

When trunk members are defined on the TRUNK form (5204 Record) with a TRKOE where OE TYPE is equal to "U", all associated trunk groups on the TKGRP form (5202 Record) must have a TRKCLS of "A5", "ADT", "PKTPIPE", "FRBC", "IS41", "SPCHNDLR", "3GPD", and "SVC".

When TGN with a known BICC GRP on the TKGRP form uses PSU platform, then GSM derived from the ORIG PT CODE must be entered either as a GLOBAL SM on the CMTMH form or a SM on the MDLNK form, and all SM2K MODULE on the CICDIST form must be entered either as NON GLOBAL SM on the CMTMH form or SM on the MDLNK form.

When TGN with a known BICC GRP on the TKGRP form uses PSU platform, then GSM derived from the

ORIG PT CODE must be entered on the CCGSM form as a Host GSM.

When TGN with a known BICC GRP on the TKGRP form uses CNI platform, then DLN on the OFCOPT form must be set to "Y".

For 5E16(1) and later:

When TGNs are defined on the TKGRP form with TRKCLS equal to "3GPD", then all trunk members on the TRUNK form (5204 Record) must have a TRKOE entered where the OE TYPE is equal to "U" and:

the OE corresponds to a Protocol Handler Logical Channel Group with a GRP TYPE of "PHV4" (for 5E15 only) or "PHV5" on the PSUGP form (5949 Record).

the last two digits of the OE must be from 0 to 19

Each Service Group (Trunk Group) associated with a BICC Packet Group (defined on the PKTGRP form (5219 Record), must have a DAS assigned on the TKGRP form. Each DAS must have an LDIT assigned on the DAS form (5300 Record) and each SM2K MODULE from the CICDIST form (5217 Record) with the above LDITs must be defined on the SMLDIT form (5315 Record).

2.3 GROUP SIZE

Description: This field indicates the number of members in the Trunk Group. It appears for administrative purposes on the record but is not entered on the form.

Data Rules:

For 5E5 and later, the maximum number of members allowed in a Packet Switch trunk group (TRKCLS "PACKET") is 32.

The maximum number of members allowed in an X.75 or X.75' trunk group (TRKCLS "X75P" or "X75") is 24.

2.4 # TRK DIR

Description: Enter the Trunk Direction for each Trunk Group.

Required Field.

Valid TRK DIR Entries	
Entry	Definition
2W	Two Way.
ANN	Announcement.
INC	Incoming.
LTP	Logical Test Port Trunk Group. Specify this Trunk Direction for all Logical Test Port Trunk Groups (TRKCLS begins with "LTP").
OUT	Outgoing.
RAF	Software Release: 5E4(2) and later. Recorded Announcement Function.
SGNL	Software Release: 5E4(2) and later. EDSL (Extended Digital Subscriber Line) D-channel signaling for ISDN.

Data Rules:

For 5E4(2) and later, if the INPULSING or OUTPULSING field has a value of "CCIS6" or "ISUP7", TRK DIR must be entered as "2W", "INC", or "OUT".

2W:

Packet-Switched trunks, TRKCLS of "PACKET" or "X75P", must have a Trunk Direction of "2W".

If "2W" is entered and TRKCLS is NOT one of the following:

"CST1"
"CST2"
"DSC"
"IDCS"
"IVTRK"
"PKTPIPE"
"PPMEM"
"SPCHNDLR"

and

- if HUNT TYPE is not "PSUCD", then FAR END NPA must be entered.
- for 5E10 and later:
 - DAS cannot be entered.
 - SCR must be entered.

If "2W" is entered, CAMA PSAP is "N", and TRKCLS is NOT

"CST1"
"CST2"
"DSC"
"PKTPIPE"
"PPMEM"
"SPCHNDLR"

then HUNT TYPE must not be "ANN", "FIFO" or "PRFF".

When TRK DIR is "2W", INPULSING and OUTPULSING must be

- "CCIS6"

When TRK DIR is "2W", INPULSING and OUTPULSING must be

- "CCIS6"
- "DCHN"
- "DCS"
- "DP"
- "ISUP7"
- "MF"
- "RPEO"
- "RPTO"
- "TT"
- or blank.

For 5E9(1) and later, if TRK DIR is "2W" and TRKCLS is not "CST1", "CST2", "DSC", "IDCS", or "IVTRK", and HUNT TYPE is not "PSUCD", then FAR END NPA must be entered.

For 5E20(1) and later, when TRK DIR is "2W", and TRKCLS is not "3GPD", A5, "ADT", "CV", "DSC", "PFS", or "PV", OUTPUTSING must be entered.

For 5E10 and later:

If "2W" is entered,

- and INPUTSING is NOT

"ISUP7"

"CCIS6"

and TRKCLS is NOT:

"CST1"

"CST2"

"DSC",

"PKTPIPE"

"PPMEM"

"SPCHNDLR"

then GLARE ACTION must be "ALLCTRL" or "NONECTRL"

- and TRKCLS is not

"DSC"

"PACKET"

"X75"

"X75P"

"SPCHNDLR"

then OUTPULSING must be entered.

ANN:

The TRK DIR must be "ANN" for each TGN that matches an RTIDX form's TGN (where that RTIDX form's route index matches a route index on an OSPSCT form [5404 Record]). The TRK DIR entry must be "RAF" if the "RAFEN" field on the TRUNK form is defined.

For 5E6 and later, if the CMD CD field of the CTECT form (5460 Record) is "MUSIC", "DISC", "PROMPT" or "ANNOUNC", then ARG1 on the CTECT form may equal a ROUTE INDEX on the RTIDX form (5303 Record), the TRUNK GROUP NUMBER on the RTIDX form must equal TGN on a TKGRP form and TRK DIR must equal "ANN" on that TRGRP form.

If MUSIC RI on the STINFO form (5402 Record) equals the ROUTE INDEX on the RTIDX form, then TRK DIR must equal "ANN" on the corresponding TKGRP form.

If corresponding TGNs on the TRUNK form have a value in MAXCALLS field, then the TGNs on this form which equal the TGN on the TRUNK form must have TRK DIR equal to "ANN".

INC:

For 5E9(1) and later, when TRK DIR is "INC", INPULSING must be

"CCIS6"
 "DCHN"
 "DCS"
 "DP"
 "ISUP7"
 "MF"
 "RPEO"
 "169RPTO"
 "TT"
 or blank.

OUT:

When TRK DIR is "OUT", OUTPULSING must be

"CCIS6"
 "DCHN"
 "DCS"
 "DP"
 "ISUP7"
 "MF"
 "RPEO"
 "RPTO"
 "TT"
 or blank.

For 5E9(1) and later,
 if "OUT" is entered, then IN START DIAL cannot be entered.

For 5E9(2) and later, if "OUT" is entered, and TRKCLS equal to "TSTK", and at least one Trunk Member is

defined on the TRUNK form, then all TGN/MEMB(s) must have OUT START DIAL set to "WINK" or unknown.

For 5E10 and later, when TRK DIR is "OUT", FAR END NPA must be entered.

For 5E10 and later, if TRK DIR is "OUT" and HUNT TYPE is

- 2WB
- 2WF
- BGUCD
- GUCD
- MLIDL (5E13 and later)
- PRFL
- PRBL
- UCD

then DCS TRK must be "Y".

For 5E15 and later, when TRK DIR is "OUT", and TRKCLS is not "ADT" or "3GPD", FAR END NPA must be entered.

RAF:

If "RAF" is entered, then

CARRIER ID must not be entered
HUNT TYPE must be "FIFO"

SGNL:

If "SGNL" is entered, then:

- BILLING DN must be unknown.
- DATA RATE must be known.
- all EDSL/PRI TRUNKS fields must use the default values.
- GLARE ACTION must not be entered.
- HUNT TYPE must be unknown.
- both INPUTSING and OUTPUTSING must be "DCHN".
- SCR and ATTTN must be blank.
- TRKCLS must be "EDSL", "IFOPER" or "IFTERM".
- STD RN SRC must be "N".
- Members of the trunk group cannot have the DEN from the TRUNK form entered as C OE or NC OE on an associated NAILUP form.

For 5E10 and later, when TGN(s) are assigned to a PRI (Primary Rate Interface) on the TKGRP form where

TRKCLS is equal to "EDSL", "IFOPER" or "IFTERM" and TRK DIR is equal to "SGNL" (the PRI D channel), there is a limit of 31 D-Channel PRIs (TGN/MEMB(s) on the TRUNK form) on SM values (DEN[1,3] or NEN[1,3] on the TRUNK form) that match EQIM SM and have a UNIT TYPE of SM2000, and a limit of 20 PRIs on an SM that does not have a UNIT TYPE of SM2000 on the EQIM form.

For 5E11 and later, when TRK DIR is not "INC" or "2W", CNA OPTION must be "NONE" on this form.

For 5E12 and later, when TRK DIR is "INC", "SGNL", or "LTP", the following RI intercept treatments, assigned on the NOC form (5501 Record), are not valid: REG ICPT RI, BLANK NBR RI, OOS RI, and DENIED TERM RI.

2.5 HUNT TYPE

Description: The HUNT TYPE determines how the Trunk Group will be searched for an available trunk.

For Two-Way trunk groups, it is necessary that the near-end trunk group and the far-end trunk group hunt from opposite ends of their respective trunk group to minimize the glare condition. For example, if the near-end trunk group has a HUNT TYPE of "2WF", the far-end trunk group must have a HUNT TYPE of "2WB".

Valid HUNT TYPE Entries	
Entry	Definition
2WF	Two-Way Forward hunt. Trunks will be hunted in numerically ascending order.
2WB	Two-Way Backward hunt. Trunks will be hunted in numerically descending order.
ANNC	Announcement Trunk hunt. A TRKCLS of "ANNCMNT" must be used with this HUNT TYPE.
BGUCD	Software Release: 5E9(1) and later. Backward Circular Sequential. The start hunt member is the last selected member -1. Hunting then continues through the trunk members in a backward direction using circular hunting to the lowest member, then starting over at the highest member. The hunt continues in this manner until an idle member is found or all members are found busy.
FIFO	First-In, First-Out hunt. Used for Outgoing and Logical Test Port Groups except DC Jacks and Callback to Trunk and Line Work Stations. FIFO is also required for Callback to TLWS.
GUCD	Software Release: 5E9(1) and later. Forward Circular Sequential hunt. The start hunt member is the last selected member +1. Hunting then continues through the trunk members in a forward direction using circular hunting to the highest member, then starting over at the lowest member. The hunt continues in this manner until an idle member is found or all members are found busy.
MLIDL	Software Release: 5E13 and later. Most Idle - Least Idle trunk hunting. The number of trunks associated to a trunk group, where the HUNT TYPE equals "MLIDL", cannot exceed 192 members. This entry supports the Trunk Group Hunt Sequence Enhancements feature. For more information, see Division 2, Section 1BT.
PRFF	Idle/preempt First-in First-out hunt. Used for preemptable Outgoing Trunk Groups associated with DSN (Defense Switched Network). The DSN (Defense Switched Network) capability is defined using the BRCS feature, Precedence and Preemption. See the 5618 Records.
PRBL	Idle/preempt Backward Linear hunt. Used for preemptable Two-Way Trunk Groups associated with DSN (Defense Switched Network). The DSN (Defense Switched Network) capability is defined using the BRCS feature, Precedence and Preemption. See the 5618 Records.
PRFL	Idle/preempt Forward Linear hunt. Used for preemptable Two-Way Trunk Groups associated with DSN (Defense Switched Network). The DSN (Defense Switched Network) capability is defined using the BRCS feature, Precedence and Preemption. See the 5618 Records.
PSUCD	Software Release: 5E3 and later. Packet Switching Uniform Call Distribution.
UCD	Software Release: 5E9(1) and later. Uniform Call Distribution. The start hunt member is randomly selected, then hunting continues through the trunk members in a forward direction using circular hunting to the highest member, then starting over at the lowest member. The hunt continues in this manner until an idle member is found or all members

are found busy.

To improve memory utilization the Recent Change system defines an additional set of HUNT TYPE values for Large Trunk Groups, groups exceeding 192 members. HUNT TYPES from either set may be entered on Recent Change View 5.1; Recent Change will automatically convert between the sets depending on the number of members (see conversions below). ODA does not allow the Large Trunk Group HUNT TYPES to be entered, but automatically makes the distinction internally based on number of members.

In Digital Cellular Switch trunk groups (DCS TRK is "Y"), trunk member 0 cannot be assigned; therefore, large DCS trunk groups are those exceeding 191 members. Also, since DCS trunks are global trunks, DCS trunk hunting is performed in the AM (Administrative Module).

Large Trunk Group Hunt Types

Small Group (ODA and Recent Change)	Large Group (Recent Change Only)
2WF	LGFD
2WB	LGBD
BGUCD	LBGUCD
GUCD	LUCD
PRFL	PLFL
PRBL	PLBL
PRFF	PLFF
PSUCD	PSLGUCD
UCD	LGUCD

Data Rules:

For 5E9(1) and later, with the exception of E911 CAMA PSAP, "CST1", "CST2", and "DSC" trunk groups, two-way trunk groups may not have a HUNT TYPE of "ANN", "FIFO", or "PREF".

Incoming Trunk Groups do not require a HUNT TYPE entry.

If TRK DIR is "SGNL", the field must not be entered.

Two-Way EDSL and EDSLHM trunks require a HUNT TYPE of

- "2WB"
- "2WF"
- "PRBL" (5E9(2) and later)
- "PRFL" (5E9(2) and later)
- "UCD" (5E9(1) and later)
- "BGUCD" (5E9(1) and later)
- "GUCD" (5E9(1) and later)
- "MLIDL" (5E13 and later)

If the TRKCLS is "IFOPER", then HUNT TYPE must not be entered.

Two-Way CCS trunks where the INPULSING or OUTPULSING field equals "CCIS6" or "ISUP7" must have a HUNT TYPE of

"2WB"
 "2WF"
 "BGUCD" (5E9(1) and later.)
 "GUCD" (5E9(1) and later.)
 "UCD" (5E9(1) and later.)

For 5E9(1) and later, TRK DIR must be "2W". when HUNT TYPE is:

"2WB"
"2WF"
"BGUCD"
"GUCD"
"MLIDL"
"PRBL"
"PRFL"
"UCD"

PSUCD:

When HUNT TYPE is "PSUCD":

- TRKCLS of "PACKET"

"X75"

or

"X75P" must be used.

- INPULSING and OUTPULSING fields must be blank.
- At least one EQPSUPH form (5742 Record) must have an entry of "O" in the EQST field.

For 5E9(2) and later, each TRUNK form with a corresponding HUNT TYPE of "PSUCD" on the TKGRP form, must have a matching EQIM form with the value entered in the CONFIGURATION field of the EQIM form must support packet switching and packet switched trunks for the associated SM. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2. The matching TKGRP form is found by matching TGN on the TRUNK form to TGN on the TKGRP form. The matching EQIM form is found by matching the first three digits of the known DEN, LTP, NEN, SLEN, TEN, or TRKOE from the TRUNK form to IM (Interface Module) on the EQIM form.

2.6 SCR

Description: Enter the Screening Index Number to be used for routing and charging of calls.

Valid Entries: 1 - 4095

Data Rules:

A Screening Index is required for all Two-Way and Incoming Trunk Groups.

All combinations of CODE INDEX from one or more LDIT (5300-3/5 Record), RDIT (5300-7/8 Record), INDIT (5309 Record), or MLDIT forms (5300-3 Record), and SCR from the TKGRP form must have corresponding RAR form entries for CDI, SCR, and "NONE" for PFX.

When SCR is not entered, both RAX and CODE RESTRICT must be 0 or blank.

2.7 GLARE ACTION

Description: Will the switch yield if a glare condition occurs on a trunk in this trunk group? When the near end switch and far end switch simultaneously seize a two-way trunk, the trunk experiences a glare condition. One of the switches must give up ("yield") the trunk and find another. The GLARE ACTION field determines how this (the near end) switch will act when it detects glare.

For 5E6 and later, one of the following values must be entered in the GLARE ACTION field.

Valid GLARE ACTION Entries - 5E6 and later	
Entry	Definition
ALLCTRL	All near end switch trunks have control; the far end switch always yields.
NONECTRL	The near end switch always yields; far end switch trunks have control.
ODDEVEN	For use with CCS7 trunks only. Control is determined by an ODD/EVEN algorithm that compares the Origination Point Code of the near end switch to the Destination Point Code of the far end switch. The switch with the greatest Point Code controls trunks with even numbered Circuit Identification Codes (defined in the CLCI TRK ID field on the associated TRUNK form) and yields on those with odd numbered CICs; the other switch controls trunks with odd CICs and yields on those with even CICs.

Data Rules:

Since Glare Action applies only to Two-Way trunks, TRK DIR must be "2W" when GLARE ACTION is entered.

For 5E6 and later, for CCS7 trunks (INPUTSING or OUTPUTSING equal to "ISUP7"), GLARE ACTION must be "ALLCTRL", "NONECTRL" or "ODDEVEN".

- **WARNING:** If GLARE ACTION for CCS7 trunks is set to "ALLCTRL" or "NONECTRL", the connecting office must be on the 5E6 or later Software Release.

GLARE ACTION may not be entered for CCS trunks that have INPUTSING or OUTPUTSING entered as "CCIS6".

It must be entered as "ALLCTRL" or "NONECTRL" for trunks with INPUTSING or OUTPUTSING other than "ISUP7" or "CCIS6".

For trunk groups with TRKCLS "X75" or "X75P", GLARE ACTION must be "ALLCTRL". For 5E7 and later, GLARE ACTION must be "ALLCTRL" when TRKCLS is "PACKET". For packet switching trunk groups (IP, X.75 or X.75P) GLARE ACTION is not used. Glare conditions on two-way packet switching trunks do not occur because of the assignment of Logical Channel Numbers (up to 128 per trunk member). Both the near end and far end Logical Channel Numbers are provisioned by the craft and prevent glare conditions from occurring.

2.8 DAS

Description: Enter the Digit Analysis Selector to be used for routing and charging of calls.

Valid Entries:

- For 5E14 and earlier: 1 - 99
- For 5E15 and later: 1 - 254

Data Rules:

A DAS is required for all Two-Way and Incoming Trunk Groups, except when the TRKCLS is "IFTERM"; then, the DAS field must not be entered.

If incoming or 2-way trunk group(s) are assigned on the TKGRP form with a DAS (Digit Analysis Selector) then the DAS must be defined on the DAS form (5300-1 Record). The DAS can only be defined as a LINE DAS for trunks with a corresponding TRKCLS value of

"EDSL"
 "EDSLHM"
 "LATA"
 "PF"
 "PFITT"
 "PFLASH"

Otherwise, the DAS must be defined as a TRUNK DAS.

It is recommended that if TRKCLS is "LTPOGTC", "LTPROTL", "LTPCLBCK", or "LTPDFTAC", this DAS should point to a DAS form (5300-1 Record) assigned an LDIT that is populated in every SM where the LTP resides. An LDIT is populated on SMs through the SMLDIT form (5315 Record).

When the specified DAS is the same as PVN DAS on the OFCOPT form (5509 Record), then this trunk group is dedicated to ASP (Advanced Services Platform; previously PVN, Private Virtual Network) and must have TRKCLS set to one of the following values: "EDSL", "PF", "PFLASH", "PFITT". If a trunk group is assigned to a DAS similar in functionality to the PVN DAS, then it should have TRKCLS set to one of the following values: "EDSL", "PF", "PFLASH", "PFITT".

Each DAS assigned on the TKGRP form assigns an LDIT (via the LOCAL DIT field on the corresponding DAS form) to one or more SMs (via the first three digits of the TEN, DEN, or (for 5E9(2) and later) NEN field on all associated TRUNK forms). Each LDIT assigned in this way, and its associated SMs, must be defined on the SMLDIT form.

2.9 # TRKCLS

Description: This field defines the type of traffic carried over the Trunk Group. The 5ESS Switch may be used as a combination Local/Toll Office. Local traffic will be carried over certain Trunk Groups and toll traffic will be carried over others.

Required Field.

Valid Entries for the TRKCLS field are divided into three tables: Local Office Traffic, Toll Office Traffic, and Logical Test Ports. The first table applies to Trunk Groups that carry local office traffic. Refer to Figure 1 for applicable Address Signal and Start Dial Combinations.

Valid TRKCLS Entries (Local Office Traffic)	
Entry	Definition
3GPD	Software Release: 5E15 and later High Speed Data Trunks
ACJCK	AC Jack Termination on Trunk and Line Work Station. Refer to Division 2, Section 2H, "Trunk and Line Work Station Access Unit."
ADT	Software Release: 5E12 and later. AUTOPLEX Data Trunk. This TRKCLS supports the CDMA Data Services and the TDMA Data Services - Circuit Mode features. For more information, see Division 2, Section 4A280 and Division 2, Section 4A286, respectively.
AIS	Outgoing to AIS (Automatic Intercept Service).
ATNDVfy	Software Release: 5E8 and later. Remote Busy Verify. Allows the ISDN Attendant the ability to verify lines on remote Switches by way of BVTs (Busy Verify Trunks). The lines on the remote Switch may be busy verified only if

	they are associated to an incoming ISAT BVT.
ANNCMNT	Outgoing to An Announcement.
A2	Software Release: 5E13 and later. IS-634 A2 Interface. Provides a connection for the OVBS (Other Vendor Base Station) capability. See Division 2, Section 4A191.
A5	Software Release: 5E14 and later. IS-634 A5 Interface. For more information, see Division 2, Section 8I.
BCM	Software Release: 5E12 and later. (Frame Relay) Bearer Channel Member. This TRKCLS supports the CDMA Data Services and the TDMA Data Services - Circuit Mode features. For more information, see Division 2, Section 4A280 and Division 2, Section 4A286, respectively.
BUSYVFY	Incoming From a 3C Type Switchboard or TSPS Operator For Busy Line Verification.
CAMA	Outgoing CAMA Trunks to the Serving CAMA office. Specify this Trunk Class for trunks outgoing to an ANAC (Automatic Number Announcement Circuit).
CST1	Software Release: 5E9(1) and later. Autoplex Cell Site 1 trunk.
CST2	Software Release: 5E9(1) and later. Autoplex Cell Site 2 trunk.
CV	Software Release: 5E20(1) and later. Circuit Vocoder. This TRKCLS supports the TRFO/RTO feature. For more information see Division 2, Section 4A775.
DSC	Software Release: 5E9(1) and later. Autoplex Dedicated Switch Connections.
EDSL	Extended Digital Subscriber Line trunk.
EDSLHM	EDSL trunk for Hotel/Motel TSPS service.
EISTRK	Software Release: 5E6 and later. Outgoing trunk to an EIS (External Information System). The discussion of the translations for an EIS trunk is in Division 2, Section 3C.
FRBC	Software Release: 5E12 and later. Frame Relay Bearer Channel. This TRKCLS supports CDMA Data Services - Circuit Mode feature. For more information, see Division 2, Section 4A280,.
IC	Software Release: 5E10 and later. Carrier Trunk.
IDCS	Software Release: 5E9(1) and later. Autoplex Inter-DCS (Digital Cellular Switch) or loop-around trunks.
ISLPM	Software Release: 5E14 and later. ISLPM supports the IS-41 Inter-System Hard Handoff feature and the IS-634 A5 Inter-Vendor feature. For more information, see Division 2, Section 8H.
IS41	Software Release: 5E14 and later. IS41 supports the IS-41 Inter-System Hard Handoff feature. For more information, see Division 2, Section 8H.
IVTRK	Software Release: 5E9(1) and later. Autoplex Inter-Vendor trunks.
LTOLLCON	Local Office End of a Toll Connecting Trunk Incoming, Outgoing or Two-Way.
LTPS96TF	Remote terminal diagnostics.
OGTGDSF	Software Release 5E16(2) and later. Logical Test Port Type that corresponds to GDSF (w/TTF) equipment.
OTOTK	Office-to-Office Test Trunk. Refer to Division 2, Section 2G, for description and requirements.
PACKET	Two-Way Packet-Switched (Internal Protocol) trunks.
PBXDID	Outgoing For PBX Direct-In-Dial.
PCF	Software Release 5E16 FR3 and later. Packet Control Function.
PF	Private Facility Trunks. Incoming, Outgoing, or Two-Way.
PFS	Software Release 5E16 FR3 and later. Packet Frame Selector.
PFITT	Private Facility Intertandem Trunks.
PFLASH	Private Facility Trunks with Flash repeating capability. Used for Incoming, Outgoing or Two-Way private trunks.
PFCPE	Private Facility Customer Premise Equipment Trunks, for outgoing trunks to customer premises.
PPMEM	Software Release 5E10 and later. Packet pipe member. This TRKCLS supports CDMA (Code Division Multiple Access) feature.

	For more information on this feature, see Division 2, Section 8B.
PKTPIPE	Software Release: 5E10 and later. Packet pipe. This TRKCLS supports CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B.
PFS	Software Release: 5E20(1) and later. Packet Frame Selector. This TRKCLS supports the TRFO/RTO feature. For more information see Division 2, Section 4A775.
PV	Software Release: 5E20(1) and later. Packet Vocoder. This TRKCLS supports the TRFO/RTO feature. For more information see Division 2, Section 4A775.
RECCMPL	Recording Completing; Outgoing to a 3C Type Switchboard.
RECCMPL	Recording Completing; Outgoing to a 3C Type Switchboard.
SERVICE	Telephone Company Service Facilities (e.g. 411, 611, 811).
SES	Service Evaluation Trunks.
SPCHNDLR	Software Release 5E10 and later. Speech Handler. This TRKCLS supports CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B.
SV	Software Release 5E20(1) and later. Super Voice Trunk. This TRKCLS supports the PHV7 feature.' For more information on this feature, see Division 2, Section 7CL.
SVC	Software Release 5E12 and later. (Frame Relay) Switched Virtual Circuit. This TRKCLS supports the CDMA Data Services and the TDMA Data Services - Circuit Mode features. For more information, see Division 2, Section 4A280 and Division 2, Section 4A286, respectively.
TOLLOPER	Incoming From a 3C Type Toll Switchboard Operator.
TSPS	Outgoing to TSPS Operator Positions.
TSTK	Local Test Desk Test Trunk, incoming or outgoing. Refer to the Division 2, Section 2E ("Local Test Desk") and Section 2N ("Coin Station Test Lines").
X75	Software release: 5E6 and Later. Provides X.75 gateway on the switch to interconnect to packet Interexchange carriers (interLATA traffic) and to independent operating companies' packet switch networks (intraLATA traffic).
X75P	Software Release: 5E5 and later. Two-Way X.75' trunk group connecting this 5ESS Switch to a PPSN Switch within the same LATA.

Data Rules for Local Office TRKCLSs:

3GPD:

When TRKCLS is "3GPD":

the ACT field for SFID 285 on the SFSYS form (5713-1 Record) must be set to "Y". This TRKCLS value is used for the CDMA (Code Division Multiple Access) Cellular Packet Data Services secured feature. (For more information on this feature, see Division 2, Section 4A285.)

TRK DIR must be "2W" or "OUT".

and TRK DIR is "2W", INPULSING must be "DCS".

and TRK DIR is "OUT", INPULSING must be unknown.

OUTPULSING must be "DCS".

FAR END NPA must not be entered

DCS RETRY must be "Y".

DCS TRK must be "Y".

PBX/CPE ID must not be entered

DAS must not be entered.

SCR must not be entered.

GLARE ACTION must be "NONECTRL".

BRCS must be "N".

VPA TYPE must be "NOVPA".

HUNT TYPE must be known.

For each trunk group of TRKCLS "3GPD", all trunk members for this trunk group must reside on the same Switching Module/PSU (Packet Switch Unit).

When TRKCLS is not "3GPD", "A5", "ADT", "CV", "DSC", "IS41", "ISLPM", "PACKET", "PFS", "PV", "SPCHNDLR", "SVC", "X75", or "X75P", OUTPUTSING must be entered.

ACJCK:

When TRKCLS is "ACJCK", trunk group members must be analog trunks; a value must be entered in the TEN field on the member's TRUNK form. CIRCUIT TYPE on the associated EQTUP form (5720 Record) must be "TRK4EM" (4-wire E&M).

ACJCK trunks must be incoming and must have MF INPLS.

FAR END NPA must not be entered.

For 5E15 FR1 and later, when TRKCLS is "ACJCK":

AC-JACK 1 OE or AC-JACK 2 OE must be defined on the TLWS form.

an analog trunk assignment (TEN) or a digital trunk assignment (DEN or NEN) must exist on the TRUNK form (5204 Record).

ADT:

When TRKCLS is "ADT",

- OUTPLS must be "DCS"
- SERV TYPE must be "DATA".
- TRK DIR must be "2W" or "OUT".
- DCS TRK must be "Y"
- DAS must not be entered
- SCR must not be entered

- FAR END NPA must not be entered
- BRCS must be "N"
- DCS RETRY must be "Y"
- PBX ID must not be entered
- GLARE ACTION must not be entered
- VPA TYPE must be "NOVPA" or must not be entered
- HUNT TYPE must be entered.

When TRKCLS is "ADT" and TRK DIR is "2W", INPLS must be "DCS". When TRKCLS is not "ADT" or "SPCHNDLR", SERV TYPE must be "NOSERV".

When TRK DIR is "OUT" and TRKCLS is not "ADT", FAR END NPA must be entered.

When TRK DIR is "2W", CAMA PSAP is "N" and TRKCLS is, not "ADT", "BCM", "CST1", "CST2", "DSC", "FRBC", "PKTPIPE", "PPMEM", "SPCHNDLR" or "SVC", HUNT TYPE, must not be "ANN", "FIFO" or "PRFF".

For 5E13 and later, when TRKCLS is "ADT", the ACT field for SFID 215, SFID 285, or SFID 286 on the SFSYS form that are included in the switch must be set to "Y", while the other SFIDs ACT fields are set to "N".

For 5E14 and later, when TRKCLS is "ADT", all trunk members of this trunk group on the TRUNK form (5204 Record), must have a TRKOE entered with an OE that has a channel assignment in the range of 64 to 95 (channel is the last three digits of the OE). When this OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PH4" on the PSUGP form (5949 Record), the PH channel assignment is limited to 64 thru 69. When the OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PHV5" on the PSUGP form, the PH channel assignment is limited to 64 thru 95.

AIS:

A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

ANNCMNT:

For 5E6 and later when TRKCLS is "ANNCMNT", if the trunk group is a Global Announcement TGN that is entered in the GL ANN TG field of another TKGRP form, it may not have trunks defined on the TRUNK form. If the trunk group is a Global Announcement TGN but is not entered in the GL ANN TG field of any other TKGRP form, then it must have at least one trunk defined on the TRUNK form. A Global Announcement trunk group is defined on the TKGRP form with TRKCLS set to "ANNCMNT" and with GL ANN TG and LOCAL SM left blank; the TGN appears on an RTIDX form with a ROUTE INDEX that is defined on a FIXRT form with FIXED ROUTE TYPE set to "RMSA".

For 5E8 and later when a member of an "ANNCMNT" trunk group has a TEN assigned on the TRUNK form, CIRCUIT TYPE must be "TRK4EM" (4-wire E&M) on the corresponding EQTUP form.

For 5E9(2) and later, the "ANNCMNT" TRKCLS requires a TEN (Trunk Equipment Number), a DEN (Digital Equipment Number) or a NEN (Networking Equipment Number) assignment on the associated TRUNK form(s).

For 5E12 and later, when TRKCLS is "ANNCMNT", HUNT TYPE must be entered.

ATNDVIFY:

- If TRKCLS is "ATNDVIFY", then the following fields must be "N":

ASP ORIG,
BRCS,
CAMA PSAP,
CFN RSTRCT,
LN CRIT Q,
LN VIRT,
LS DLY ANS,
NI ANNC,
NI IW REL,
PRIVACY,
RLT FLASH,
SATELLITE,
UNRES EA

- If TRKCLS is "ATNDVIFY", the following fields must be not be entered:

BILLING DN,
DATA RATE,
DEST PT CODE,
DSN ACT ID,
HUNT TYPE,
HUNT TYPE,
NEND CLLI,
ORIG PT CODE,
PBXDID,
VPA RATE

- CCS7 TYPE must be "BELLCORE" or not entered;
- COIN, SHUTTLE, TRUNK QUERY, and XLT TEST must be "N" or not entered;
- FREE ANS must be "Y";
- LN TYPE must be "NONE";
- SVC GRP must be "NOANNC";
- TRK DIR must be "INC" or "OUT";
- VPA TYPE must not be entered or it must be "NOVPA";
- the corresponding APGFP form (5620-2 Record), where TKGRP TGN equals APGFP GROUP NO/GROUP NAME, must have NUTS/LUTS ACTIVE equal "N".

- If TRKCLS is "ATNDVIFY" and TRK DIR is "INC":
 - INPLS must be "MF";
 - ISAT MLHG, INSEP, and DIR CON DN cannot be entered;
 - one TRUNK form must exist with the key TGN that matches the TGN on this TKGRP form. On that TRUNK form:

TEN or DEN must be entered;
IDLE STATE must be "ON";
IN START DIAL must be "WINK";
OUT START DIAL must not be entered;
EXT GUARD TIMING and ANSWER DELAY
TIMING must be "N" or not be entered.

- If TRKCLS is "ATNDVIFY" and TRK DIR is "OUT":
 - OUTPLS must be "MF".;
 - ISAT MLHG must be entered.;
 - AML PERCENT and QUEUE FEATURE must not be entered.;
 - ENQUEUE ACT must be "Y" or not entered.;
 - one TRUNK form must exist with the key TGN that matches the TGN on this TKGRP form. On that TRUNK form:

TEN or DEN must be entered;
IDLE STATE must be "ON";
IN START DIAL must not be entered;
OUT START DIAL must be "WINK";
EXT. GUARD TIMING and ANSWER DELAY
TIMING must be "N" or not be entered.

For 5E15 and later, when TRKCLS is "ATNDVIFY", CQ/BQ ALW must be "N" or not entered.

A2:

For 5E13 and later, when TRKCLS is "A2",

- SFID 191 must be activated.
- all corresponding trunk members of the respective trunk group must have a DEN or NEN specified.
- IN START DIAL and OUT START DIAL (on the TRUNK form) must not be entered

- an ATSDAT form must not be entered
- TRKCLS must not be "A2", when FAR E911 is "Y"
- the following TKGRP fields must be:
 - TRK DIR must be 2W
 - DCS TRK must be "Y"
 - FAR END NPA must not be entered
 - PBX/CPE ID must not be entered
 - VPA TYPE must not be entered or must be entered as "NOVPA"
 - DAS must not be entered
 - SCR must not be entered
 - INPULSING must be DCS
 - OUTPULSING must be DCS
 - GLARE ACTION must not be entered
 - DATA RATE must be "56K" or "64K".

A5:

For 5E14 and later, when TRKCLS is "A5",

- DAS must not be entered
- SCR must not be entered
- GLARE ACTION must not be entered
- VPA TYPE must be "NOVPA", or not be entered
- DCS TRK must be "Y"
- DCS RETRY must be "Y"
- PBX/CPE ID must not be entered
- TRK DIR must be "2W"
- FAR END NPA must not be entered
- DATARATE must not be entered
- IAPT must be "Y"

- ATTN must be "0"
- INPLS must be "NOSIGNAL"
- OUTPLS must be "NOSIGNAL"

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "A5" on the TKGRP form, IN START DIAL must not be entered on the TRUNK form.

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "A5" on the TKGRP form, OUT START DIAL must not be entered on the TRUNK form.

For 5E18 and later, when TRKCLS is "A5", "ADT", or "IS41", all corresponding trunk members of these trunk groups (on the TRUNK form (5204 Record)) must have a TRKOE entered where the OE TYPE is "U" and the OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PHV4" or "PHV5" on the PSUGP form (5949 Record).

BCM:

For 5E12 and later, when TRKCLS is "BCM",

- TRK DIR must be "2W"
- DCS TRK must be "N"
- DAS must not be entered
- SCR must not be entered
- INPLS must be "FRBC"
- OUTPLS must be "FRBC"
- FAR END NPA must not be entered
- BRCS must be "N"
- PBX ID must not be entered
- HUNT TYPE must not be entered
- GLARE ACTION must not be entered
- VPA TYPE must be "NOVPA" or must not be entered
- DATA RATE must be "56K" or "64K"

When TRKCLS is "BCM" or "FRBC", INPULSING must be "FRBC" and OUTPULSING must be "BC".

For 5E13 and later, when TRKCLS is "BCM" and associated SVCs have DCS TRK of "Y" on the TKGRP form, an AFAC ID must be entered on all the corresponding EQDUP, EQVT, or EQLVC forms for the respective DEN, NEN, or OIUEN populated on the associated TRUNK form.

EQDUP forms:

- If FAC IND is 0 or 1, AFAC ID FAC 0 must be entered.
- If FAC IND is 3, and the channel number (the last two digits of the DEN on the TRUNK form) is less than 25, AFAC ID FAC 0 must be entered;
- If FAC IND is 3, and the channel number is greater than 24, AFAC ID FAC 1 must be entered.

EQVT and EQLVC forms:

AFAC ID must be entered.

BUSYVFY:

BUSYVFY trunks must be incoming.

INPLS is required for BUSYVFY trunks.

For 5E10 and later, FAR END NPA must not be entered.

CAMA:

CAMA trunks must have the following:

- FREE TERM must be entered
- HUNT TYPE must be "FIFO"
- OUTPLS must be entered
- OUTPL REQ must be "Y"
- SIGNAL must not be entered
- TRK DIR must be "OUT"

For 5E9(2) and later, if a DEN or NEN is entered on the TRUNK form and the corresponding TKGRP form has TRKCLS of "CAMA", then SUPV on the TRUNK form must be "EM2" or not entered.

CST1:

When TRKCLS is "CST1":

- INPLS must be "DCS"
- OUTPLS must be "DCS"
- DCS TRK must be "Y"
- DCS RETRY must be "N"
- VPA TYPE must be "NOVPA" or blank
- When the TGN on this form matches the TGN on the TRUNK form, then on the TRUNK form:
 - IN START DIAL must not be entered
 - OUT START DIAL must not be entered

- the ACT field for SFID ACT 130 on the SFSYS form must be "Y".

CST2:

When TRKCLS is "CST2":

- INPLS must be "DCS"
- OUTPLS must be "DCS"
- DCS TRK must be "Y"
- DCS RETRY must be "N"
- VPA TYPE must be "NOVPA" or blank
- When the TGN on this form matches the TGN on the TRUNK form, then on the TRUNK form:
 - IN START DIAL must not be entered
 - OUT START DIAL must not be entered
- SFID ACT 130 on the SFSYS form cannot be "N".

CV:

When TRKCLS is "CV":

and ATTTN is entered, an AUTO form (5505 Record) must exist with AUTOMATIC PROGRESSION TEST TYPE set to either "SHCT" or "PVELBK".

CV Trunk Group members can coexist only with PFS Trunk Group members for a given combination of SM, PSU, SHELF, and CHANNEL GROUP.

DCS TRK must be "N".

DCS RETRY must be "N".

SERV TYPE must be "CV".

there must be a corresponding PSUGP form defined.

and SERV TYPE is "CV" on this form, PH TYPE on the PSUGP form (5949 Record) must be "PHV6".

CV, PFS, or PV:

When TRKCLS is "CV", "PFS", or "PV":

TRK DIR must be "2W".

IMPULSING and OUTPUTSING must be "NONE" or not entered.

GLARE ACTION must not be entered.

HUNT TYPE must be entered.

VPA TYPE must be "NOVPA" or not entered.

DAS must not be entered.

SCR must not be entered.

TRKOE must be entered with an OE TYPE of "U".

PBX/CPE ID must not be entered.

For 5E21(1) and later, when both trunk classes PFS and PV are provisioned on PHV6 and if SERV TYPE for the PV trunk is "PVEVB" for the same combination of SM, PSU, SHELF, and CHANNEL GROUP, the CHANNEL GROUP MEMBERS must be assigned only as follows:

PFS: 128 - 159

PV: 000 - 063

DSC:

When TRKCLS is "DSC":

- DCS TRK must be "Y"
- DCS RETRY must be "N"
- VPA TYPE must be "NOVPA" or not entered.
- When the TGN on this form matches the TGN on the TRUNK form, then on the TRUNK form:
 - IN START DIAL must not be entered
 - OUT START DIAL must not be entered
 - The trunk must be a digital trunk; that is, a value must be entered in the DEN field
- SFID ACT 130 on the SFSYS form cannot be "N".
- For 5E9(2) and later, if "DSC" is entered, then DSC NUM must be entered on the NAILUP form(5207 Record).A trunk assigned to the controlling port on a NAILUP form cannot belong to a DSC trunk group unless a value is entered in the DSC NUM field on the corresponding NAILUP form. Forms correspond when DEN on the TRUNK form matches the equipment number portion of the C OE on the NAILUP form, and the TRKCLS on the corresponding TKGRP form is "DSC".

For 5E17 and later, when TRKCLS is "DSC" or "IVTRK", all trunks in the trunk group must be digital, (i.e., DEN, NEN, OIUEN, or DCS TRK must be entered on all associated TRUNK forms).

EDSL:

Each trunk belonging to this trunk group must be defined with a DEN on a TRUNK form. If the group's TRK DIR is "SGNL", an ISCN must also be entered on the TRUNK form. When TRKCLS is not "EDSL" or "EDSLHM", all EDSL/PRI TRUNKS fields must use the default values.

For 5E6 and later, when DLTU TYPE is "DLTU24" or "DLTU48" on the EQDU form and the corresponding

TKGRP form has TRKCLS of "EDSL", "IFOPER" or "IFTERM", and the following are true:

INPLS or OUTPUTSING is "DCHN",

TRK DIR is "2W", "INC" or "OUT",

then DATA RATE on the TKGRP form must be "56K", "R64K", "64K" or must not be entered. The EQDU form is found by matching SM and DLTU NUMBER with the first 3 digits and 4th digit respectively of DEN on the TRUNK form.

For 5E6 and later, when DLTU TYPE is "DLTU24" or "DLTU48" on the EQDU form and the corresponding TKGRP form has TRKCLS of "EDSL", "IFOPER" or "IFTERM", and the following are true:

INPLS or OUTPUTSING is "DCHN",

TRK DIR is "SGNL",

then DATA RATE on the TKGRP form must be entered. The EQDU form is found by matching SM and DLTU NUMBER with the first 3 digits and 4th digit respectively of DEN on the TRUNK form.

If TRKCLS is "EDSL" or "EDSLHM" and TRK DIR is "2W", then HUNT TYPE must be

"2WB"

"2WF"

"PRBL" (5E9(2) and later)

"PRFL" (5E9(2) and later)

"BGUCD" (5E9(1) and later)

"GUCD" (5E9(1) and later)

"UCD" (5E9(1) and later)

"MLIDL" (5E13 and later)

For 5E9(1) and later:

See "IFOPER" for 5E9(1) and later data rule for LLCB assignments.

For 5E9(2) and later:

If the TRUNK GROUP NUMBER entry on the ROUTE INDEX form matches the TGN entry on the TRUNK GROUP form where TRKCLS is set to "EDSL" or "EDSLHM", the TRK DIR on the TRUNK GROUP form must not be set to "SGNL".

For 5E10 and later:

If "EDSL" is entered,

- DATA RATE must be entered or DATA RATE and WB RATE must be entered.
- the associated MEMBs on the TRUNK form must have the required entry for DEN or NEN.
- and on the TRUNK form:

ANSWER DELAY TIMING must be "N"

or not entered

EXT. GUARD TIMING must be "N"

IN START DIAL must not be entered

OUT START DIAL must be not be entered

SUPV must be "EM2" or not entered

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

EDSLHM:

Each trunk belonging to this trunk group must be defined as a B-channel with a DEN entered on a TRUNK form; the last two digits of the DEN must be in the range 1 - 23 or 25 - 47.

For 5E6 and later, if the DLTU TYPE is "DLTU24" or "DLTU48" on the corresponding EQDU form, then the DATA RATE on this form must be "56K", "R64K", "64K" or not entered for a TRKCLS of "EDSLHM".

If TRKCLS is "EDSL" or "EDSLHM" and TRK DIR is "2W", then HUNT TYPE must be

"2WB"

"2WF"

"PRBL" (5E9(2) and later)

"PRFL" (5E9(2) and later)

"BGUCD" (5E9(1) and later)

"GUCD" (5E9(1) and later)

"UCD" (5E9(1) and later)

"MLIDL"

When DLTU TYPE is "DLTU24" or "DLTU48" on the EQDU form; the corresponding TKGRP form has TRKCLS of "EDSL", "EDSLHM", "PFLASH", "PFITT" or "PF"; and an ASP feature has been assigned on the TRUNKFA or TKGRPFA forms or within a CLUSTER; then DATA RATE must not be entered. A corresponding EQDU form is found by matching the SM and DLTU NUMBER on the EQDU form with the first 3 digits and the 4th digit respectively of the DEN on the TRUNK form (5204 Record).

When "EDSLHM" is entered:

- DATA RATE must be entered or DATA RATE and WB RATE must be entered.
- a B channel must be assigned on the TRUNK form.
- associated MEMBs on the TRUNK form must have the required entry for DEN or NEN.
- a DEN entered on the TRUNK form and a PRI GROUP entered on the TRUNK form that has a PRI TYPE of "CUSTOM" on the associated PRIGRP form, the last two digits of the DEN(s) on the TRUNK form must be in the range of 1 - 23 or 25 - 47, representing a B channel.

• **NOTE:** An asterisk (*) preceding a DEN specifies that it was generated automatically from the TRUNK form because QTY was greater than 1.

- on the TRUNK form:

ANSWER DELAY TIMING must be "N" or not entered

EXT. GUARD TIMING must be "N"

IN START DIAL must not be entered

OUT START DIAL must be not be entered

SUPV must be "EM2" or not entered

FRBC:

When TRKCLS is "FRBC",

- TRK DIR must be "2W"
- DCS TRK must be "N"
- DAS must not be entered
- SCR must not be entered
- INPLS must be "FRBC"
- OUTPLS must be "FRBC"
- FAR END NPA must not be entered
- BRCS must be "N"
- PBX ID must not be entered
- HUNT TYPE must not be entered
- GLARE ACTION must not be entered
- the following must be true for all corresponding trunk members of this trunk group:

TRKOE TYPE on the TRUNK form is "U"

TRKOE NUMBER on the TRUNK form corresponds to a Protocol Handler Logical Channel Group where PH TYPE on the PSUGP form is "PH4" or "PH22"

- and PH TYPE on the PSUGP form is "PH4", the channel component (the last three digits) of TRKOE NUMBER on the TRUNK form must be in the range of 000 to 015 for all corresponding trunk members of this trunk group.

- and PH TYPE on the PSUGP form is "PH22", the channel component (the last three digits) of TRKOE NUMBER on the TRUNK form must be in the range of 000 to 063 for all corresponding trunk members of this trunk group.

the total number of SVC (Switched Virtual Circuit) trunks assigned to FRBC trunks on a given PH must not exceed 239.

PHs (Protocol Handlers) are assigned to "FRBC" trunks. For PH4, a given PH may support at most 16 trunks via the "FRBC" trunks assigned on the TRUNK form (5204 Record). For PH22, a given PH may support at most 64 trunks via the "FRBC" trunks assigned on the TRUNK form.

For 5E16(1) and later, for every TKGRP with TRKCLS equal to "FRBC", all trunk members of the trunk group on the TRUNK form (5204 Record), must have a TRKOE entered where the OE TYPE is "U" and the OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PH4" or "PH22" on the PSUGP form (5949 Record).

When HUNT TYPE is not entered and TRKCLS is not "FRBC" or "PKTPIPE", FCS and PROT VIOL must not be entered.

When HUNT TYPE is not entered and TRKCLS is not "FRBC", SABM must not be entered.

IDCS:

When TRKCLS is "IDCS":

- TRK DIR must be "2W"
- DCS TRK must be "Y"
- INPLS must be "MF" or "TT"
- OUTPLS must be "MF" or "TT"
- GLARE ACTION must be "ALLCTRL" or "NONECTRL"
- HUNT TYPE must be entered.
- SPEECH TRMTS must be "N"
- VPA TYPE must be "NOVPA" or blank
- The following fields must be blank: SCR, PBX ID, FAR END NPA
- A TIMING form (5520 Record) must be defined with a SERVICE CLASS of "IDCS"
- SFID ACT 130 on the SFSYS form cannot be "N".

ISLPM:

For 5E14 and later, when TRKCLS is "ISLPM",

- DAS must not be entered

- SCR must not be entered
- GLARE ACTION must not be entered
- VPA TYPE must be "NOVPA" or not be entered
- DATA RATE must be "56K"
- HUNT TYPE must not be "NONE"
- FAR END NPA must not be entered
- PBX/CPE ID must not be entered
- DCS TRK must be "N"
- TRK DIR must be "2W"
- INPLS must not be "NOSIGNAL"
- OUTPLS must not be "NOSIGNAL"
- SERV TYPE must be "NOSERV"
- DCS RETRY must be "N"

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "ISLPM" on the TKGRP form, IN START DIAL must not be entered on the TRUNK form.

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "ISLPM" on the TKGRP form, OUT START DIAL must not be entered on the TRUNK form.

IS41:

For 5E14 and later, when TRKCLS is "IS41",

- DAS must not be entered
- SCR must not be entered
- GLARE ACTION must be "ALLCTRL" or "NONECTRL"
- VPA TYPE must be "NOVPA" or not be entered
- FAR END NPA must not be entered
- DCS TRK must be "Y".
- DCS RETRY must be "Y"
- PBX/CPE ID must not be entered
- TRK DIR must be "2W"
- HUNT TYPE must be "2WB", "2WF", "ANNC", "BGUCD", "FIFO", "GUCD", "MLIDL", or "UCD".

- SERV TYPE must be "NOSERV"
- INPLS must not be entered
- OUTPULSING must not be entered

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "IS41" on the TKGRP form, IN START DIAL must not be entered on the TRUNK form.

When the TGN field on the TKGRP form matches the TGN field on the TRUNK form, and TRKCLS field is "IS41" on the TKGRP form, OUT START DIAL must not be entered on the TRUNK form.

IVTRK:

When TRKCLS is "IVTRK":

- DAS must not be entered
- DCS TRK must be "Y"
- DCS RETRY must be "N"
- FAR END NPA must not be entered
- GLARE ACTION must be "ALLCTRL" or "NONECTRL"
- HUNT TYPE must be entered.
-
- INPLS must be "DCS"
- OUTPLS must be "DCS"
- PBX ID must not be entered
- SCR must not be entered
- SPEECH TRMTS must be "N"
- TRK DIR must be "2W"
- VPA TYPE must be "NOVPA" or blank

When the TGN on this form matches the TGN on the TRUNK form, then on the TRUNK form:

IN START DIAL must not be entered

OUT START DIAL must not be entered

The trunk must be a digital trunk; that is, a value must be entered in the DEN field

SFID ACT 130 on the SFSYS form cannot be "N".

LTOLLCON:

Specify this Trunk Class for DDD Access, Toll Completing and Interoffice (Class 5 to Class 5) trunks. DDD Access Trunks are trunks from a Class 5 to a Toll Office which carry noncoin toll traffic. Recording and timing are done at the local office. Operator assistance is never required. Toll Completing Trunks are trunks from a toll office to a Class 5 office. This Trunk Class may also be used for RSMs.

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPLS or OUTPULSING field on this form is "MF", then DATA RATE on this form must be "56K" or not entered. The EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

For 5E12 and later, when TRKCLS is "LTOLLCON", HUNT TYPE must be entered.

OGTGDSF:

For 5e16(2) and later, when TRKCLS is "OGTGDSF", a FIXRT form must exist with FIXED ROUTE TYPE set to "OGTGDSF".

OTOTK:

A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

When TRKCLS is "OTOTK", trunk group members must be analog trunks; a value must be entered in the TEN field on members' TRUNK forms.

PACKET:

If "PACKET" is entered:

- COIN must be "N" or not entered
- DATA RATE must be "56K" or "64K"
- DSN ARC ID must be 0 or not entered
- ENQUEUE ACT must be unknown or "N"
- FAR END LATA must equal 0 or not entered
- FAR END NXX must not be entered
- HUNT TYPE must be "PSUCD"
- GLARE ACTION must be "ALLCTRL"
- MK BUSY must be "N" or not entered
- MAKE BUSY KEY must not be entered
- NEXT PSN must be entered
- PACKET trunks must be two-way.
- PBX ID must not be entered
- RETRY must be "N"
- RLT FLASH must be "N"
- RLT TYPE must be "NONE"
- SATELLITE must be "N"

For this Trunk Class, a DEN and ISCN must be defined on the TRUNK form. An IP (Internal Protocol) trunk group connecting this 5ESS Switch to another 5ESS Switch can have a maximum of 32 members on a trunk group. An IP trunk group connecting this 5ESS Switch to a 1PSS can have a maximum of 8 members in a trunk group. For 5E5 and later Software Releases, if "PACKET" is entered in the TRKCLS field and "SGNL" is entered in the TRK DIR field, then an entry is required in the ISCN field of the corresponding TRUNK form.

For 5E5 and later, a maximum of 16 trunk groups can be assigned with a TRKCLS of "PACKET".

For 5E6 and later, IN START DIAL and OUT START DIAL must not be entered on the member TRUNK forms.

For 5E8 and later, when "PACKET" trunks are assigned to an SM that supports packet switching, a value must be entered in the PSN field on the ISDNOPT form (5941 Record); that PSN must be different than the NEXT PSN on the TKGRP form. In addition, the value entered in the CONFIGURATION field of the EQIM form must support packet switching and packet switched trunks for the associated SM. (Other SM/TRUNK GROUP combinations may also meet these criteria.) For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E9(1) and later, if the TRUNK GROUP NUMBER defined on an RTIDX input form has TRKCLS set to "X75", "X75P", or "PACKET" on the associated TKGRP form, then at least one TRUNK input form must be defined for the associated TKGRP form.

For 5E10 and later:

- When "PACKET" is entered, FAR END NPA must not be entered.
- When TGNs are defined with a TRKCLS of
 - "PACKET"
 - "X75"
 - "X75P"
 1. there can be a maximum of 25 TGNs with these TRKCLSs per SM, where SM is DEN[1,3] or NEN[1,3] on the corresponding TRUNK form.
 2. the DEN or NEN field must be defined on the corresponding TRUNK form(s).
- all members of this Trunk Group must be assigned on the same Switching Module (the first three digits of DEN or NEN on the TRUNK form).
- TRUNK forms which have a TRKCLS of "PACKET" can not have a Protocol Handler (the first three characters of the ISCN) which are mixed with Protocol Handlers from other BRI or PRI DSLs in the same SM. The following "PACKET" TRUNK forms cannot have common a Protocol Handler with the following forms:

CCLNK

DSLUSR

MDLNK

MISLINK

PSULNK

QPHPIPE

TRUNK

XAT

**PCF:
5E16 FR3 and later**

When the TGN on this form matches the TGN on the TRUNK form, then on the TRUNK form:

IN START DIAL and OUT START DIAL must not be entered

When TRKCLS is "PCF":

DAS, SCR, FAR END NPA, PBX/CPE ID, GLARE ACTION, and DATA RATE must not be entered

BRCS must be "N".

VPA TYPE must be "NOVPA" or must not be entered.

HUNT TYPE must be entered.

IMPULSING must be "PCF".

OUTPULSING must be "PCF".

DCS TRK and DCS RETRY must be "Y".

TRK DIR must be "TWOWAY".

There must be a trunk member 1 on the TRUNK form (5204 Record) with MEMB equal 1 defined.

The first seven digits of the TRKOE must match to SM, PSU, SHELF, and CHANNEL GROUP on at least one ETHIP form (5995 Record).

For a given combination of the first seven digits of the TRKOE (SM, PSU, SHELF, and CHANNEL GROUP) there can be a maximum of 10 trunk groups.

For a given combination of the first seven digits of the TRKOE (SM, PSU, SHELF, and CHANNEL GROUP) there can be a maximum of 8000 TRUNK forms (5204 Record).

The CDMA (Code Division Multiple Access) (cellular packet) Data Services feature must be purchased (Secured Feature ID 285).

When TRKCLS is "PCF" and DCS TRK is "Y", HUNT TYPE must be "2WB", "2WF", "UCD", "GUCD", or

"BGUCD".

For every Trunk Group with TRKCLS equal to "PCF", all trunk members of the trunk group on the TRUNK form (5204 Record), must have a TRKOE entered where the OE TYPE is "U" and the OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PHE2" on the PSUGP form (5949 Record).

For each Trunk Group with TRKCLS equal to "PCF", the trunk members on the TRUNK form (5204 Record) must have a TRKOE entered with an OE TYPE of "U", and TRKOE must be the same for all members of the trunk group.

PF:

Private Facility Customer Premise Equipment trunks (Recorded Telephone Dictation, Radio Paging, Code Calling and Loud Speaker Paging) can be set up with or without sleeve lead supervision. "PF" is used for CPEs that do not require sleeve lead supervision. Use the "PFCPD" for the sleeve lead applications. When "PF" is used for CPE trunks, the following fields must be entered:

- SUPV must be "RB" on the TRUNK form.
- IN START DIAL and OUT START DIAL must be blank on the TRUNK form.
- TRK DIR must be "OUT".
- OUTPLS must be "TT" or "DP".
- These trunks usually have CUT THRU equal to "Y". For 5E6 and later Software Releases, "PFCPE" must be used for all Private Facility Customer Premise Equipment trunks.

For 5E14 and later, when TRKCLS is "PF", "PFLASH", or "PFITT", and MAIN DN is entered, the ACT field for SFID 550, on the SFSYS form (5713-1 Record), must be set to "Y".

PFS:

When TRKCLS is "PFS":

PFS Trunk Group members can coexist only with SPCHNDLR Trunk Group members for a given combination of SM, PSU, SHELF, and CHANNEL GROUP when PH TYPE on the PSUGP form is "PHV5".

PFS Trunk Group members can coexist only with SPCHNDLR/CV/PV Trunk Group members for a given combination of SM, PSU, SHELF, and CHANNEL GROUP when PH TYPE on the PSUGP form is "PHV6".

SERV TYPE must be "PFS"

there must be a corresponding PSUGP form defined.

DCS TRK must be "Y".

DCS RETRY must be "Y".

SERV TYPE is "PFS" on this form, and PH TYPE on the PSUGP form (5949 Record) must be "PHV5" or "PHV6".

When TRKCLS is "PFS" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH TYPE

on the PSUGP form is "PHV5" or "PHV6", the CHANNEL GROUP MEMBERS on the TKGRP form must be assigned a value from 0 - 255.

When TRKCLS is "PV" on this form, and PH TYPE on the PSUGP form is "PHV6" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, the CHANNEL GROUP MEMBERS must be assigned a value from 0 - 127.

When TRKCLS is "PFS" and "SPCHNDLR" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH TYPE on the PSUGP form is "PHV5", the CHANNEL GROUP MEMBERS on the TKGRP form must be assigned as follows:

PFS: 064 - 160

SPCHNDLR: 000 - 063

When TRKCLS is "PFS", "CV", "PV", and "SPCHNDLR" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH TYPE on the PSUGP form is "PHV6", and if the SERV TYPE for TRKCLS of PV is "PV" for the same combination of SM, PSU, SHELF, and CHANNEL GROUP, the CHANNEL GROUP MEMBERS must be assigned only as follows:

PFS: 128 - 159

CV, PV, and SPCHNDLR: 000 - 127

PFITT:

This Trunk Class is used with trunk groups between tandem offices with trunks owned or leased by the customer. This Trunk Class cannot be assigned cut-through outpulsing, thus, the value entered in the CUT THRU field must be "N".

"PFITT" trunks must have TRK DIR of
 "2W" "INC" or
 "OUT"

If the trunk group is Outgoing or Two-Way, TRK DIR is "OUT" or "2W", the OUTPULSING signaling can be "DP", "MF", or "TT". For 5E6 and later, it may also be "ISUP7".

If the TRK DIR is "INC" or "2W", the INPULSING signaling can be "DP", "MF" or "TT".

For 5E10 and later, incoming PFITT trunks require INPULSING of

- "DP"
- "ISUP7"
- "MF"
- "NONE" or
- "TT"

PFCPE:

Private Facility Customer Premise Equipment trunks (Recorded Telephone Dictation, Radio Paging, Code Calling and Loud Speaker Paging) can be set up with or without Sleeve lead supervision. A TRKCLS of

"PFCPE" is used for all Private Facility Customer Premise Equipment trunks which require sleeve lead supervision. "PF" is used for Customer Premise Equipment trunks that do not have sleeve lead supervision. For all CPE trunks:

- SUPV must be "RB" on the TRUNK form.
- IN START DIAL and OUT START DIAL must be blank on the TRUNK form.
- TRK DIR must be "OUT".
- OUTPLS must be "TT" or "DP".
- These trunks usually have CUT THRU equal to "Y".
- If the trunks have sleeve lead supervision, the SLVD SPN field on the TRUNK forms must be defined. (The Sleeve Lead scan points are specified for each trunk of the Trunk Group on the TRUNK form.) For the "PFCPE" Trunk Class, each trunk member defined on the TRUNK form must have a TEN entered.
- For 5E7 and later, a TEN, DEN, or (for 5E9(2) and later) NEN must be entered on the corresponding TRUNK form.

PFLASH:

For 5E9(1) and later, outgoing "PFLASH" trunks require a HUNT TYPE value, and an OUTPLS of "DP", "MF" or "TT".

Incoming "PFLASH" trunks require INPLS of "DP", "MF", "TT" or "NONE".

If "PFLASH" is entered, TRK DIR must be "INC".

PKTPIPE:

"PKTPIPE", "PPMEM", and "SPCHNDLR" trunk classes support the CDMA (Code Division Multiple Access) feature. This is a secured feature, therefore ACT must be "Y" for SFID 221 on the SFSYS form (5713 Record) before "PKTPIPE" can be entered.

When TRKCLS is "PKTPIPE":

- The following fields must be set as indicated:
 - BRCS must be "N"
 - DCS TRK must be "Y"
 - DCS RETRY must be "N"
 - INPLS must be "PP"
 - OUTPLS must be "PP"
 - TRK DIR must be "2W"
 - VPA TYPE must be "NOVPA" or not entered
- all corresponding trunk members of this trunk group must have at least:
 - for 5E10 and 5E11, two row entries completed in the PACKET PIPE MEMBER TRUNKS list on the TRUNK form (5204 Record).
 - for 5E12, one to eight row entries completed in the PACKET PIPE MEMBER TRUNKS list on the

TRUNK form (5204 Record).

- all corresponding trunk members of this trunk group (on the TRUNK form), must have a TRKOE where:
 - OE TYPE is "U"
 - OE channel assignment is in the range of 00 - 11 (channel is the last two digits of the OE)
 - OE corresponds to a Protocol Handler Logical Channel Group with a PH TYPE of "PH4" or "PH22" on the corresponding PSUGP form

The TRUNK form corresponds to the PSUGP form when

digits 1 - 3 of the TRKOE match SM entry of PSUGP

digit 4 matches the PSU

digit 5 matches PSU SHELF entry

digits 6 - 7 match GP GRP entry.

- PKTPIPE trunks cannot have a Protocol Handler (the fourth to sixth character of the TRKOE on the TRUNK form) WHICH is also assigned to other BRI or PRI DSLs in the same SM. The "PKTPIPE" TRUNK forms cannot have a common Protocol Handler with the following forms.

CCLNK

DSLUSR

MDLNK

MISLINK

PSULNK

QPHPIPE

XAT

and the following must NOT be entered:

DAS

FAR END NPA

GLARE ACTION

HUNT TYPE
PBX ID
SABM
SCR

PHs (Protocol Handlers) are assigned to Packet Pipe trunks. The total number of Packet Pipe Member trunks assigned to these Packet Pipe trunks must not exceed 64. A given PH may support at most 64 Packet Pipe Member trunks via the Packet Pipe trunks.

For 5E13 and later, when TGNs are defined on the TKGRP form with a TRKCLS of "PKTPIPE" and the MEMBs assigned to the TGN on the TRUNK form have 9 or more rows entered on the PSU PIPE MEMBER TRUNKS list, the Packet Pipe Enhancements secured feature must be purchased. A SFSYS form must exist with SFID 317 ACT set to "Y".

PPMEM:

"PKTPIPE", "PPMEM", and "SPCHNDLR" trunk classes support the CDMA (Code Division Multiple Access) feature. This is a secured feature, therefore the ACT field for SFID 221 must be set to "Y" on the SFSYS form (5713 Record) before "PKTPIPE" can be entered.

For 5E10 and later, if "PPMEM" is entered:

- BRCS must be "N"
- DATA RATE must be "56K" or "64K"
- DCS TRK must be "N"
- DCS RETRY must be "N"
- INPLS must be "PP"
- OUTPLS must be "PP"
- TRK DIR must be "2W"
- VPA TYPE must be "NOVPA" or not entered.

and the following must NOT be entered:

DAS
FAR END NPA
GLARE ACTION
HUNT TYPE
SCR

If "PPMEM" is entered, then:

- all corresponding trunk members of this trunk group (on the TRUNK form), must have a DEN specified. In addition the values of IN START DIAL and OUT START DIAL on the TRUNK form (5104 Record) must be null.
- Corresponding EQDUP forms are found by first finding all TRUNK forms where a DEN is entered and TGN on the TRUNK form matches TGN on the TKGRP form. There is one EQDUP form for each DFI pack that the trunks are assigned to. The SM, DLTU and DFI PACK NBR on the EQDUP form matches the SM, DLTU and DFI (first 6 digits of the DEN) on the TRUNK form.

— If FAC IND is 0 or 1 on the EQDUP form, then AFAC ID FAC 0 must be entered.

- If FAC IND is 3 and the channel number (the last 2 digits of the DEN on the TRUNK form) is less than 25, then AFAC ID FAC 0 must be entered.
- If FAC IND is 3 and the channel number is greater than 24, then AFAC ID FAC 1 must be entered.

For 5E13 and later, if "PPMEM" is entered:

an AFAC ID must be entered on all corresponding EQDUP, EQVT, or EQLVC forms for the respective DEN, NEN, or OIUEN populated on the associated TRUNK form.

EQDUP forms:

- If FAC IND is 0 or 1, AFAC ID FAC 0 must be entered.
- If FAC IND is 3, and the channel number (the last two digits of the DEN on the TRUNK form) is less than 25, AFAC ID FAC 0 must be entered;
- If FAC IND is 3, and the channel number is greater than 24, AFAC ID FAC 1 must be entered.

EQVT and EQLVC forms:

AFAC ID must be entered.

PV:

When TRKCLS is "PV":

PV Trunk Group members can coexist only with PFS Trunk Group members for a given combination of SM, PSU, SHELF, and CHANNEL GROUP.

DCS TRK must be "N".

DCS RETRY must be "N".

SERV TYPE must be "PV"

there must be a corresponding PSUGP form defined.

and SERV TYPE is "PV" on this form, PH TYPE on the PSUGP form (5949 Record) must be "PHV6".

When TRKCLS is "PV" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH TYPE on the PSUGP form is "PHV6", the CHANNEL GROUP MEMBERS on the TKGRP form must be assigned a value from 0 - 127.

When TRKCLS is "PV" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and SERV TYPE of "PVEVB" is on a PHV6, the CHANNEL GROUP MEMBERS must be assigned a value from 0 - 63.

SERVICE:

This Trunk Class may only be specified if the Trunk Group terminates to a local service facility and outpulsing of digits is not required. If digits are to be outpulsed to the service facility, do not use this Trunk Class.

SPCHNDLR:

"PKTPIPE", "PPMEM", and "SPCHNDLR" trunk classes support the CDMA (Code Division Multiple Access) feature. This is a secured feature, therefore the ACT field for SFID 221 must be set to "Y" on the SFSYS form (5713 Record) before "PKTPIPE" can be entered.

If "SPCHNDLR" is entered:

BRCS must be "N"
 DCS RETRY must be "Y"
 DCS TRK must be "Y"
 IAPT must be "N"
 SERV TYPE must be 8K, 13K, or
 (for 5E11 and later) "EVRC"
 , or (for 5E12 and later) "ACELP", "VSELP"
 TRK DIR must be "2W"
 VPA TYPE must be "NOVPA" or not entered.

If "SPCHNDLR" is entered the following fields must NOT be entered:

DAS
 FAR END NPA
 GLARE ACTION
 INPLS
 OUTPLS
 PBX ID
 SCR

If "SPCHNDLR" is entered:

- A maximum of 10 separate Trunk Groups of TRKCLS "SPCHNDLR", "PV", PFS", or "CV" may have trunk members assigned to a given PSU (Packet Switching Unit).
- all trunk members for this Trunk Group must reside on the same PSU.
- all corresponding trunk members of this trunk group (on the TRUNK form), must have a TRKOE entered with a OE TYPE of "U".
 - In addition, for 5E10, the entry on the PSUGP form (5949 Record) that corresponds to the Protocol Handler Logical Group must have a GRP TYPE of "PHV1" or "PHV2" corresponding to SERV TYPE of "8K" or "13K" respectively (on the TKGRP form).
 - in addition, for 5E11 and later, the last two digits of the OE must be in a specific range, dependent upon the type of Protocol Handler for which the specific trunk resides.

When TRKCLS is "SPCHNDLR" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH TYPE on the PSUGP form is "PHV5", the CHANNEL GROUP MEMBERS on the TKGRP form must be assigned a value from 0 - 63.

When TRKCLS is "SPCHNDLR" for a combination of SM, PSU, SHELF, and CHANNEL GROUP, and the PH

TYPE on the PSUGP form is "PHV6", the CHANNEL GROUP MEMBERS on the TKGRP form must be assigned a value from 0 - 127.

OE Digit Entries	
PH TYPE	OE[7,8]
PHV1	00 - 11
PHV2	00 - 11
PHV3	00 - 15
PHV4	00 - 31

- TRUNK forms which have a TRKCLS of "SPCHNDLR" defined on the TKGRP form can not have a Protocol Handler (the fourth to sixth characters of the TRKOE) which is also assigned to other BRI or PRI DSLs in the same SM. "SPCHNDLR" TRUNK forms cannot have common Protocol Handlers with the following forms:

CCLNK

DSLUSR

MDLNK

MISLINK

PSULNK

QPHPIPE

TRUNK

XAT

SES:

Service Evaluation is a required feature in all local offices which serve more than 3000 lines. In offices which serve less than 3000 lines, this feature is optional. The SES Trunk Group can have a maximum of 4 members which are called Voice Monitor Links. The first Member, defined on a TRUNK form, must be 1.

SVC:

For 5E12 and later, when TRKCLS is "SVC",

- TRK DIR must be "2W"
- DAS must not be entered
- SCR must not be entered
- INPLS must not be entered

- OUTPLS must not be entered
- FAR END NPA must not be entered
- BRCS must be "N"
- PBX ID must not be entered
- GLARE ACTION must not be entered
- VPA TYPE must be "NOVPA" or must not be entered.
- HUNT TYPE must be entered.

When TRKCLS is "SVC" and DCS TRK is "Y", DCS RETRY must be "Y".

For 5E13 and later, when TRKCLS is "SVC" and DSC TRK is "Y", the ACT field for SFID 215, SFID 285, or SFID 286 on the SFSYS form that are included in the switch should be set to "Y", while the other SFIDs ACT fields are set to "N".

SV:

For 5E20(1) and later for feature PHV7 (99-5E-8744), when TRKCLS is "SV",

TRK DIR must be "2W".

INPULSING must be blank or "NONE".

OUTPULSING must be blank or "NONE".

PBX/CPE ID must not be entered.

DCS TRK must be "Y".

DCS RETRY must be "Y".

FAR END NPA must not be entered.

SERV TYPE must be "EVRC".

VPA TYPE must be "NOVPA" or not entered.

DAS must not be entered.

SCR must not be entered

GLARE ACTION must not be entered

DATA RATE must not be entered

HUNT TYPE must be "NONE".

When TRK CLASS is "ATMPP", "CV", "PFS", "PKTPIPE", "PPMEM", "PV" "SPCHNDLR" or "SV":

RAX, CD RSTRCT, DAS , SCR , GLARE ACTION must not be entered.

PBX/CPE ID must be 0.

VPA TYPE must be "NOVPA".

When TRK CLASS is "ATMPP", "CV", "PFS", "PKTPIPE", "PPMEM", "PV" "SPCHNDLR" or "SV" and CH IN START DIAL is "Y", IN START DIAL must be "NONE".

When TRK CLASS is "ATMPP", "CV", "PFS", "PKTPIPE", "PPMEM", "PV" "SPCHNDLR" or "SV" and CH OUT START DIAL is "Y", OUT START DIAL must be "NONE".

When TRK CLASS is "CV", "PFS", "PV" "SPCHNDLR" or "SV" IAPT must be "Y".

TOLLOPER:

For 5E12 and later, when TRKCLS is "TOLLOPER", TRK DIR must be "INC".

TSPS:

If TRKCLS is "CAMA" or "TSPS", then TSPS TYPE must be entered.

If "TSPS" is entered, then:

- the trunks must be outgoing
- the trunks must have a FIFO HUNT TYPE
- MF OUTPLS is required
- OUTPL REQ must be entered
- and an entry is required in the following fields:
 - AUDIBLE
 - COINRTN INT
 - COINRTN FNL
 - COINRTN INT
 - FREE TERM.

TSTK:

For 5E14 and earlier:

When TRKCLS is "TSTK", trunk group members must be analog trunks; a value must be entered in the TEN field on the members' TRUNK forms.

For 5E15 and later:

When TRKCLS is "TSTK", trunk group members can be either analog (TEN) or digital (DEN).

When TRKCLS is "TSTK" and TRK DIR is "OUT", and TEN is entered,

- HUNT TYPE must be "FIFO"
- OUTPULSING must be blank

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 1 or 25,

- OUT START DIAL on the TRUNK form must be "IMED"
- TRK DIR on the TKGRP form must be "OUT"
- MTB0 and MTB1 on the TRUNK form must not be entered

- HUNT TYPE on the TKGRP must not be entered
- OUTPUTSING on the TKGRP form must be "MF".

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 2-13 or 26-37 on the TRUNK form,

- TRK DIR on the TKGRP form must be "OUT" or "INC".
- MTB0 and MTB1 must be entered.

When DEN dchan is set to 1 and there are TGN/MEMBS defined on the TRUNK form with DEN dchan set to 2 - 13, with TRKCLS of "TSTK" on the associated TKGRP form, the DEN dchan that is set to 1 must also have a TRKCLS of "TSTK" on the associated TKGRP form.

When DEN dchan is set to 25 and there are TGN/MEMBS defined on the TRUNK form with DEN dchan set to 26 - 37, with TRKCLS of "TSTK" on the associated TKGRP form, the DEN dchan that is set to 25 must also have a TRKCLS of "TSTK" on the associated TKGRP form.

When TGN/MEMBS defined on the TRUNK form with DEN dchans set to 14 - 24 or 38 - 48, with a TRKCLS of "TSTK" on the associated TKGRP form, these channels cannot be assigned to digital test trunks.

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 1 on the TRUNK form, DENs dchans 14 - 24 cannot be assigned on the CCLNK, LINE, MLHLN, TRUNK or XAT forms.

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 25 on the TRUNK form, DENs dchans 38 - 48 cannot be assigned on the CCLNK, LINE, MLHLN, TRUNK or XAT forms.

When TGN/MEMBS defined on the TRUNK form have the DEN dchan (D-channel) set to 1, TRKCLS of "TSTK", and DEN dchans 2 -13 assigned on the CCLNK, LINE, MLHLN, TRUNK or XAT forms, these DENs must also have a TRKCLS of "TSTK"

When TGN/MEMBS defined on the TRUNK form have the DEN dchan (D-channel) set to 25, TRKCLS of "TSTK", and DEN dchans 26 - 37 assigned on the CCLNK, LINE, MLHLN, TRUNK or XAT forms, these DENs must also have a TRKCLS of "TSTK"

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 2 - 13 on the TRUNK form,

- DEN dchan 1 must be assigned to a MEMB on the TRUNK form.

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 26 - 37 on the TRUNK form,

- DEN dchan 25 must be assigned to a MEMB on the TRUNK form.

When TRKCLS is "TSTK" and the DEN dchan (D-channel) is set to 2-13 or 26-37 on the TRUNK form, and TRK DIR is "OUT"

- HUNT TYPE must be "FIFO"
- OUT START DIAL on the TRUNK form must be "WINK" or blank
- OUTPUTSING on the TKGRP form must be "MF" or blank.

X75:

A maximum of 255 TKGRP forms can be entered with this trunk class. Each trunk group may contain at most twenty-four trunk members; each member number must be in the range 0 - 23.

X75 trunk group members may reside on different non-remoted SMs (SM USAGE on EQIM is "IM" or "HIM"). If an X.75 trunk group resides on a remoted SM (SM USAGE on EQIM is "TRM", "ORM" or "RSM"), then all members of the trunk group must reside on the same SM.

On the corresponding TRUNK forms (5204 Record) IDLE STATE must be "ON", EXT GUARD TIMING and ANSWER DELAY TIMING must be "N" or left blank, and IN START DIAL and OUT START DIAL must not be entered.

X75 trunks must have entries in the following fields:

- BRCS must be "N"
- DATA RATE must be 56K
- FAR END LATA must not be entered
- GLARE ACTION must be "ALLCTRL"
- HUNT TYPE must be "PSUCD"
- INPLS must be "NONE"
- INSEP must be blank
- OUTPLS must be "NONE"
- REMOTE DNIC must be 1 - 9999
- SATELLITE must be "N"
- TRK DIR must be "2W"

and

IC PRESELECT and TNIC INDICATOR
on the TRUNK form (5204 Record)

PBX ID must not be specified when TRKCLS is "X75".

VPA TYPE must be unknown or "NOVPA" when TRKCLS is "X75".

For 5E8 and later, NBR PLAN must be "X121" or "E164".

- ILC SCRNM must be entered.

For 5E8 and later, if a ROUTE INDEX defined on the RTIDX form (5303 Record) has a TRUNK GROUP NUMBER and a NEXT ROUTE entered, and the TRUNK GROUP NUMBER is defined on the TKGRP form with a TRKCLS of "X75P" or "X75", then the NEXT ROUTE on that ROUTE INDEX form must be defined as the ROUTE INDEX on another RTIDX form where the TRUNK GROUP NUMBER is defined on the TKGRP form with a TRKCLS set to "X75P", "X75", or "PACKET".

For 5E9(1) and later, if the TRUNK GROUP NUMBER defined on an RTIDX input form has TRKCLS set to "X75", "X75P", or "PACKET" on the associated TKGRP form, then at least one TRUNK input form must be defined for the associated TKGRP form.

For 5E10 and later:

If "X75" is entered:

- FAR END NPA must not be entered.
- X75 trunks cannot have an ISCN SHELF and form can not have an ISCN SHELF and CHL GRP (the first three characters of the ISCN) which are mixed with Protocol Handlers from other BRI or PRI DSLs in the same SM. The "X75" TRUNK forms cannot have a common SHELF and CHL GRP with the following forms:

CCLNK

DSLUSR

MDLNK

MISLINK

PSULNK

QPHPIPE

XAT

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

For 5E13 and later, when TRKCLS is "X75" or "X75P", DATA RATE must be "56K" or "64K".

For 5E20(1) and later, when TRKCLS is "SPCHNDLR", SERV TYPE must be "8K", "13K", "ACELP", "CEV13", "EVRC", "EVRCB", "EVEVB", "TACVS", or "VSELP".

For 5E20(1) and later, when TRKCLS is "SPCHNDLR", SERV TYPE must be "8K", "13K", "ACELP", "CEV13", "EVRC", "SME13", "EVRCB", "EVEVB", "TACVS", or "VSELP".

X75P:

X75P trunk group members may reside on different non-remoted SMs (SM USAGE on EQIM is "IM" or "HIM"). If an X.75' trunk group resides on a remoted SM (SM USAGE on EQIM is "TRM", "ORM" or "RSM"), then all members of the trunk group must reside on the same SM.

For 5E8 and later, a maximum of 255 TKGRP forms can be entered with this trunk class. Each trunk group may contain at most twenty-four trunk members; each member number must be in the range 0 - 23.

When TRKCLS is "X75P" then:

COIN must be "N" or not entered

DATA RATE must be 56K

DSN ARC ID must be 0 or not entered

ENQUEUE ACT must "N" or not entered

FAR END LATA must equal 0 or not entered

FAR END NXX must not be entered

GLARE ACTION must be "ALLCTRL"
HUNT TYPE must be "PSUCD"
INSEP must be blank
MK BUSY must be "N" or not entered
MAKE BUSY KEY must not be entered
PBX ID must not be entered
RLT FLASH must be N
RLT TYPE must be NONE
SATELLITE must be "N"
TRK DIR must be "2W"
VPA TYPE must be blank or "NOVPA"

and

TNIC INDICATOR and ACCESS CHAR
on the TRUNK form (5204 Record) must have an entry.

For 5E6 and later, when TRKCLS is "X75P", fields on the member TRUNK forms must be set as follows:

- ANSWER DELAY TIMING must be "N" or not entered
- EXT GUARD TIMING must be "N" or not entered
- IDLE STATE must be "ON"
- IN START DIAL must not be entered
- OUT START DIAL must not be entered

For 5E8 and later, NBR PLAN must be "X121" or "E164".

For 5E8 and later, if "X75P" is entered, and if "Y" is entered in the following fields or the following fields are not entered on the TRUNK form (5204 Record):

ACCESS CHAR
TRANS SUB NET CNT
CLEAR SUB NET ID

then the X75' trunks must have UTILITY MARKER set to "Y" on the TRUNK form.

For 5E9(1) and later, if the TRUNK GROUP NUMBER defined on an RTIDX input form has TRKCLS set to "X75", "X75P", or "PACKET" on the associated TKGRP form, then at least one TRUNK input form must be defined for the associated TKGRP form.

For 5E10 and later:

- When TRKCLS is "X75P", FAR END NPA must not be entered.
- When a TGN is defined on a TKGRP input form with TRKCLS set to "X75" or "X75P", at least one MEMB must be defined on a TRUNK form with the first three digits of DEN or NEN matching an SM defined on an EQIM input form where SM USAGE equals "RSM", "ORM", or "TRM". All MEMBs associated with this TGN must have the same first three digits of DEN or NEN.

- "X75P" trunks cannot have an ISCN SHELF and CHL GRP (the first three characters of the ISCN) which are mixed with Protocol Handlers from other BRI or PRI DSLs in the same SM. The following "X75P" TRUNK forms cannot have common SHELF and CHL GRP.

AMLBDSL

CCLNK

DSL

DSLAP

DSLUSR

MDLNK

MISLINK

ODBRES

OSPSDSL

PSISM

PSULNK

QPHPIPE

RTERM

XAT

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must not be "NONE" on this form.

General:

For 5E6 and later, TRKCLS must be "PACKET", "X75P" or "X75" if at least one of the following fields is entered on the TRUNK form (5204 Record): OCU LOOPBACK, CSU LOOPBACK, LAPB ADDR, WINDOW SIZE, RETRANS N2, ACK TIME T1 and IDLE TIME T3. TRKCLS must be "X75P" or "X75" if LINK ID or HIGH PVC LCN is entered on the TRUNK form.

If OUTPUTSING or INPUTSING is entered as "CCIS6", then TRKCLS must be "LTOLLCON", "TTOLLCON",

"PRINTOLL", "SCINTOLL", "BVINTOLL", or "BVTOLLCM", and BRCS must be "N".

When a trunk group is entered on an ARSTPA form with QUEUE ALLOWED "Y", the TRKCLS on this form must be "PF", "PFITT", "PFLASH" or "EDSL".

For 5E4(2) and later, if trunks in this group are assigned a Precedence and Preemption feature on the TRUNKFA form or associated CLUSTR form, then the TRKCLS entered here must agree with the DSN (Defense Switched Network) TRUNK TYPE on the PPFD (5618-1 Record) or PPTPA (5618-5) form as follows. If TRUNK TYPE is "OFFNET", "TIEPNID", "TIERNID", or "VONPNID", then TRKCLS must be "LTOLLCON". If TRUNK TYPE is "SATINID" or "SATPID", TRKCLS must be "PBXDID"; and if TRUNK TYPE is "VONRNID", TRKCLS must be "LTOLLCON", "PF", "PFITT", or "PFLASH".

For 5E10 and later, the following forms:

- AMLBDSL
- DSL
- DSLAP
- DSLUSR
- MISLINK
- ODBRES
- OSPSDSL
- RTERM
- XAT

along with all TRUNK forms which have a TRKCLS of "EDSL", "IFTERM" or "IFOPER" defined on the TKGRP form can share an ISCN SHELF and CHL GRP (the first three characters of the ISCN) with ISCNs from other forms from this set in the same SM. However, they cannot have an ISCN SHELF and CHL GRP which are mixed with Protocol Handler assignments from CCLNK forms,

MDLNK forms,
 PSISM forms,
 PSULNK forms, or
 TRUNK forms which have a TRKCLS of
 "PACKET"
 "PKTPIPE"
 "SPCHNDLR"
 "X75"
 "X75P"

defined on the TKGRP form.

Each Switching Module (SM) can have up to 5 PSU SHELFs. On the EQIM form, when UNIT TYPE is not "SM2000" each PSU SHELF can be assigned up to (32 times X) timeslots for the following table of applications. (Note: X represents the number of PIDBs, 0 to 4, provisioned per shelf.)

For 5E10 and later, the following data rule is not executed on an SM-2000, because provisioning of nailed-up timeslots is not required on an SM-2000. Each DI (Data Interface) in a SM can have a maximum of 256 nailed-up timeslots reserved for the application in the following table. These time slots can be reserved by setting rows RPTSS0 to RPTSS7 to 1 on the EQPSU form. The quantity of time slots reserved (i.e. the number set to 1) must be greater than or equal to the quantity of time slots assigned for the following applications. Note that a D channel only takes a quarter of a time slot.

The time slots are reserved for the following applications:

Timeslots Reserved for Applications

Application	Definition
EDSL	Defined by setting TRKCLS equal to "EDSL" on the TKGRP form and defining members on TRUNK forms.
IFOPER	Defined by setting TRKCLS equal to "IFOPER" on the TKGRP form and defining members on TRUNK forms.
IFTERM	Defined by setting TRKCLS equal to "IFTERM" on the TKGRP form and defining members on TRUNK forms.
IP	Defined by setting TRKCLS equal to "PACKET" on the TKGRP form and defining members on TRUNK forms.
ISM	Defined on the PSISM form.
PKTPIPE	Defined by setting TRKCLS equal to "PKTPIPE" on the TKGRP form and defining members on TRUNK forms.
RISLU B Channel	Defined on the DSL/AMLBDL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
RISLU D Channel	Defined on the DSL/DSLAP/OSPSDSL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
RPA	Defined by setting BRI RDTA PIDB TS to a non-zero value on the EQPSUPH form.
SPCHNDLR	Defined by setting TRKCLS equal to "SPCHNDLR" on the TKGRP form and defining members on TRUNK forms.
X.25	Defined on the XAT form.
X75	Defined by setting TRKCLS equal to "X75" on the TKGRP form and defining members on TRUNK forms.
X75P	Defined by setting TRKCLS equal to "X75P" on the TKGRP form and defining members on TRUNK forms.

The following data rule is not executed on an SM-2000, provisioning of nailed-up time slots is not required on an SM-2000. On a PSU1, each Data Interface in a SM can have a maximum of 128 nailed-up time slots reserved for the following applications:

Timeslots Reserved for Applications	
Application	Definition
EDSL	Defined by setting TRKCLS equal to "EDSL" on the TKGRP form and defining members on TRUNK forms.
IFOPER	Defined by setting TRKCLS equal to "IFOPER" on the TKGRP form and defining members on TRUNK forms.
IFTERM	Defined by setting TRKCLS equal to "IFTERM" on the TKGRP form and defining members on TRUNK forms.
IP	Defined by setting TRKCLS equal to "PACKET" on the TKGRP form and defining members on TRUNK forms.
ISM	Defined on the PSISM form.
PKTPIPE	Defined by setting TRKCLS equal to "PKTPIPE" on the TKGRP form and defining members on TRUNK forms.
RISLU B Channel	Defined on the DSL/AMLBDL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
RISLU D Channel	Defined on the DSL/DSLAP/OSPSDSL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
RPA	Defined by setting BRI RDTA PIDB TS to a non-zero value on the EQPSUPH form.
SPCHNDLR	Defined by setting TRKCLS equal to "SPCHNDLR" on the TKGRP form and defining members on TRUNK forms.
X.25	Defined on the XAT form.
X75	Defined by setting TRKCLS equal to "X75" on the TKGRP form and defining members on TRUNK forms.
X75P	Defined by setting TRKCLS equal to "X75P" on the TKGRP form and defining members on TRUNK forms.

These time slots can be reserved by entering the rows RPTSS0 to RPTSS7 on the EQPSU form. The quantity of time slots reserved (i.e. the number entered) must be greater than or equal to the quantity of time slots assigned for the above applications. Note that a D channel only takes a quarter of a time slot.

Also, the reserved time slots must be entered such that for any given SHELF, (defined by the first digit of ISCN field or by the SHELF field on the MISLINK form), the time slots assigned to that SHELF must not be duplicated in the same vertical (column) position if they appear in more than one row (RPTSS0 through RPTSS7).

The following Trunk Class entries apply to Trunk Groups which carry toll office traffic. Refer to Figure 2 for applicable Address Signal and Start Dial combinations.

Valid TRKCLS Entries (Toll Office Traffic)	
Entry	Definition
AUXTRNK	Toll to Special Services. Outgoing.
BVINTOLL	Busy Verification on Intertoll Trunks. Outgoing.
BVTOLLCM	Busy Verification on Toll Completing Trunks. Outgoing.
BUSYVFX	Busy Verification on Primary Intertoll Trunks. Incoming.
CAMOPKEY	Outgoing CAMA Operator Keying Trunks.
CAMOPTLK	Outgoing CAMA Operator Talking Trunks.
CAMAONI	Incoming CAMA, Operator Number Identification.
CAMAANI	Incoming CAMA, Automatic Number Identification.
DIOR	Software Release: 5E6 and later. Direct International Originations.
FIOPR	Software Release: 5E4(2) and later. Intermediate Switch Point for incoming operator trunks.
FOPRI	Software Release: 5E4(2) and later. Intermediate Switch Point for outgoing operator trunks to OSPS.
FOPRT	Software Release: 5E4(2) and later. Intermediate Switch Point for outgoing operator trunks to TSPS.
FXROTL	Foreign Exchange line from a nearby Central Office to a toll or tandem office having no Directory Numbers. Used for ROTL in the toll or tandem office. Refer to Division 2, Section 2I.
IC	Interexchange Carrier Trunks. Incoming, Outgoing or Two-Way for direct connection between an AT (Access Tandem) and a Carrier.
IFOPER	Software Release: 5E5 and later. Originating end of an OSPS EDSL (PRI) trunk, defined on the originating OSPS Interflow switch.
IFTERM	Software Release: 5E5 and later. Terminating end of an OSPS EDSL (PRI) trunk, defined on the receiving end OSPS Interflow switch.
INAISTRK	Software Release: 5E6(2) and later. Listing Services incoming Automatic Intercept System trunk.
LATA	Intertoll Trunks from a LATA.
PRINTOLL	Primary Intertoll Connecting Trunks. Incoming, Outgoing, or Two-Way. For use by AT&T.
RAFANNC	Software Release: 5E4(2) and later. Recorded announcement function frame.
RAFCTR	Software Release: 5E4(2) and later. RAF coin tone receiver.
RAFDTA	Software Release: 5E4(2) and later. RAF dial-through announcement.
SCINTOLL	Secondary Intertoll Connecting Trunks. Incoming, Outgoing, or Two-Way.
SPAB800	Software Release: 5E5 and later. Special Access Basic 800 Service.
SPAM800	Software Release: 5E5 and later. MEGACOM 800 Service, a volume discount service.
SPAMEG	Software Release: 5E5 and later. MEGACOM Service is a volume discount service.
SPAWATS	Software Release: 5E5 and later. Special Access WATS (Wide Area Telecommunications Service).
TCIKT	Software Release: 5E4(2) and later. OSPS transfer CAMA incoming keying trunks.
TCITT	Software Release: 5E4(2) and later. OSPS transfer CAMA incoming talking trunks.

TTOLLCON	Toll Connecting Trunk. Incoming, Outgoing, or Two-Way. Used in an AT (Access Tandem) office for trunk groups from end offices or other tandems. Also used by Long Distance Platform feature (SFID 165) for trunks between two toll switches.

Data Rules for Toll Office TRKCLSs:

AUXTRNK:

Applications include: Rate and Route Trunks One-Way from the 5ESS Switch toll office to cord switchboards or desks through which Rate and Route operators are reached; Directory Assistance Trunks, One-Way from the 5ESS Switch toll office to a No. 5 ACD through which Directory Assistance operators are reached. A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

BVINTOLL:

A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

BVTOLLCM:

A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

BUSYVFY:

BUSYVFY trunks must be incoming.

INPULSING is required for BUSYVFY trunks.

For 5E10 and later, FAR END NPA must not be entered.

CAMAANI:

For 5E6 and later, when TRKCLS is "CAMAANI", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "CAMAONI".

CAMAANI trunks must be incoming and the following apply:

- INPULSING must be entered
- ORIG NPA must be entered
- OFFCODE 1 must be entered

CAMA trunk office codes must be entered in sequential order. The office codes associated with CAMA trunks cannot be duplicated.

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

CAMAONI:

For 5E6 and later, when TRKCLS is "CAMAONI", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "CAMAONI".

For 5E11 and later, when TRKCLS is "CAMAONI":

- TRK DIR must be "INC".

- INPULSING must be specified.

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

CAMOPKEY:

This Trunk Class is used in conjunction with Trunk Class "CAMOPTLK" to establish the CAMA Operator Trunks which carry CAMA ONI traffic. A CAMA Operator connection consists of a Keying Trunk used to key the calling number into the CAMA office and a Talking Trunk over which the CAMA operator is able to obtain the calling number. Each Trunk Class (CAMOPKEY or CAMOPTLK) requires a separate One-Way Outgoing Trunk Group. These Trunk Groups must have the same number of members. A HUNT TYPE of "FIFO" and a TRK DIR of "OUT" must be used with this Trunk Class.

For 5E6 and later, when TRKCLS is "CAMOPKEY", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "CAMAONI".

For 5E7 and later, trunk members of a trunk group with a TRKCLS of "CAMOPKEY" or "TCIKT" must reside on the same Switching Module as the trunk member that has the TALKING TRUNK TGN and MBR NO entered, i.e. the first three digits of the DEN, TEN, or (for 5E9(2) and later) NEN must be the same.

CAMOPTLK:

These Trunks are associated with CAMA Operator Keying Trunks. See above description for CAMOPKEY Trunk Class.

For 5E7 and later, trunk members of a trunk group with a TRKCLS of "CAMOPTLK" or "TCITT", must reside on the same Switching Module as the trunk member that has the KEYING TRUNK TGN and MBR NO entered, i.e. the first three digits of the DEN, TEN, or (for 5E9(2) and later) NEN must be the same.

DIOR:

"DIOR" must have an associated OPRTK form (5417 Record) with an entry of "Y" in the DIOR NPA field and an entry from 100 to 199 in the ORIG NPA field. Other restrictions are explained on that form.

For 5E8 and later, if "DIOR", "FIOPR", "FOPRI", or "INAISTRK" is entered, the members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports incoming AIS trunks. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E10 and later, if "DIOR" is entered and TRK DIR is "INC", then FAR END NPA must not be entered.

FIOPR:

TGNs that are defined with a TRKCLS of "FIOPR" must have a corresponding OPRTK form (5417 Record) defined; they must have a TIMING form (5520 Record) defined with matching TGNs and a SERVICE CLASS of "FIOPR".

A TGN defined with a TRKCLS of "FIOPR" must have INPULSING set to "MF" or "DP". It must have a corresponding OPRTK form (5417 Record); it must also have a TIMING form (5520 Record) with matching TGN and a SERVICE CLASS of "FIOPR".

For 5E8 and later, if "DIOR", "FIOPR", "FOPRI", or "INAISTRK" is entered, the members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports incoming AIS trunks. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

FOPRI:

For 5E8 and later, if "DIOR", "FIOPR", "FOPRI", or "INAISTRK" is entered, the members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports incoming AIS trunks. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

IC:

Used for direct connections with a Carrier, except when the Trunk Group is outgoing to an Operator Service Position use TSPS for Trunk Class, or when the Trunk Group is outgoing to a FGB (Feature Group B) Carrier requesting ANI use CAMA for Trunk Class. For carrier calls in an EAEO (Equal Access End Office) which route via an Access Tandem (i.e., they are not directly connected to the Carrier), the Trunk Class of "LTOLLCON" should be used.

For 5E6 and later Software Releases, if the TRKCLS is "IC" and the Trunk Group is Outgoing or Two-Way (TRK DIR "OUT" or "2W"), the OUTPUTSING signaling may be "MF", "CCIS6", or "ISUP7". If the TRK DIR is "INC" or "2W", the INPUTSING signaling may be "MF", "CCIS6", or "ISUP7".

NOTE: FGB signaling with ANI is not valid on a tandem connection.

When TRKCLS is "IC", CARRIER ID must be entered, and for 5E8 and later, FEAT GRP must be entered.

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPUTSING or OUTPUTSING field on this form is "MF", then DATA RATE on this form must be "56K" or not entered. The EQDU form is found by matching the SM and the DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

For 5E6 and later, when TRKCLS is "IC", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "INVNODIG".

IFOPER:

Note that there is a limit of 20 PRIs to an SM, although this limit may be lower due to traffic engineering constraints.

If "IFOPER" is entered in the TRKCLS field,

- then on the corresponding TRUNK forms: DEN must be specified; the SUPV, IN START DIAL, and OUT START DIAL fields must be blank; and the EXT GUARD TIMING and ANSWER DELAY TIMING fields must be "N" or blank.
- for 5E7 and later, if "IFOPER" is entered and it is assigned to a B-channel (for a B-channel, the last 2 digits of the DEN are in the range of 1-23 or 25-47), then a corresponding OSPSOP form must be entered, where the DEN of the corresponding TRUNK form (TGN on this form matches TGN on the TRUNK form) matches the DEN on the OSPSOP form.
- and if "SGNL" is entered in the TRK DIR field, each member of the trunk group must be a D-channel. On the corresponding TRUNK forms, the ISCN and PSCLI fields must be specified, and the last two digits of the DEN field must be 24 or 48.
- and if "OUT" is entered in the TRK DIR field, then each member of that trunk group must be a B-channel. On the corresponding TRUNK forms the last two digits of the DEN field must be in the range 1 to 23 or 25 to 47.
- for 5E6 and later, and if the DLTU TYPE is "DLTU24" or "DLTU48" on the corresponding EQDU form (5730 Record), the INPUTSING or OUTPUTSING field on this form is "DCHN", and TRK DIR is "2W", "INC", or "OUT", then DATA RATE on this form must be "56K", "R64K", "64K", or not entered. If "DLTU24" or "DLTU48" is entered in DLTU TYPE on the corresponding DLTU form (5730 Record), "DCHN" is entered in the INPUTSING or OUTPUTSING field on this form, and TRK DIR is "SGNL", then the DATA RATE field on this form must not be entered. The corresponding EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit respectively of the DEN on

the TRUNK form (5204 Record).

- For 5E8 and later, OSPS PSM field on the EQIM form must be "Y" for Switching Modules in which Interflow pseudo operator trunks are located. Therefore, if "IFOPER" is entered, then OSPS PSM must be "Y" on the EQIM form(s) corresponding to the Switching Modules (SMs) in which the "IFOPER" trunks are located.

Navigation help: TRUNK forms assign trunk group members (TGN on the TRUNK forms matches the TKGRP TGN) to SMs and trunk equipment. The SM part of the DEN (first three digits) on the TRUNK forms point to the SM on an EQIM form.

- for 5E9(2) and later, the trunk members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports incoming AIS trunks. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E10 and later:

If "IFOPER" is entered:

- the associated MEMBs on the TRUNK form must have the required entry for DEN.
- and have TGN/MEMBs on the TRUNK form whose DEN[1,3] or NEN[1,3] values match an SM on the EQIM form with UNIT TYPE of SM2000, is not allowed.

- on the TRUNK form:

ANSWER DELAY TIMING must be "N" or not entered

EXT. GUARD TIMING must be "N"

IN START DIAL must not be entered

OUT START DIAL must be

SUPV must be "EM2" or not entered

For 5E9(1) and later: each SM / SHELF / CHL GRP can use a maximum of 384 LLCBs (Logical Link Control Blocks).

For 5E11 and later, when TRKCLS is "IFOPER" and TRK DIR is "OUT", OUTPUTSING must be "DCHN".

The following applications define the possible LLCB assignments. These application cannot use more than 384 LLCBs.

LLCB Assignments		
Form	SM SHELF CHL GRP	LLCB Count
AMLBDL	SM is the first three digits of LCEN SHELF/CHL GRP is the first three digits of ISCN.	The count is incremented by 2 for each unique AMLBDL form where SERVICE CLASS is "XDB" on a corresponding OSPDSL form.
DSL	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of PPB1 ISCN.	The count is incremented by 1 for each PPB1 ISCN defined.

DSL	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of PPB2 ISCN.	The count is incremented by 1 for each PPB2 ISCN defined.
DSL	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of D ISCN.	If a matching DSLUSR form is not found the count is incremented by 1.
DSLAP	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of ISCN.	The count is incremented by 1 for each unique OE/ISCN combination.
DSLUSR	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of D ISCN on the corresponding DSL form.	The count is incremented by 2 for each DSLUSR form where DPKT TN or DPKT MLHG/TERM is entered.
		The count is incremented by 1 for each DSLUSR form where DPKT TN and DPKT MLHG/TERM are blank.
DSLUSR	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of ODB ISCN1 and/or ODB ISCN2.	The count is incremented by 1 if only ODB ISCN1 is entered. The count is incremented by 2 if both ODB ISCN1 and ODB ISCN2 are entered.
MISLINK	SM is the first three digits of OE SHELF and CHL GRP are the SHELF and CHL GRP fields, respectively.	The count is incremented by 1 for each MISLINK form.
OSPSDSL	SM is the first three digits of LCEN. SHELF/CHL GRP is the first three digits of ISCN.	The count is incremented by 2 for each unique OPSDSL form where SERVICE CLASS is "TAOPER" or "DAOPER" and a corresponding AMLBDSL form is defined. Otherwise, the count is incremented by 1 for each unique OPSDSL form.
RTERM	Where RT INTERFACE is "TR303" SM is SM SHELF/CHL GRP is the first three digits of TMC PRI ISCN, TMC NPRI ISCN, EOC PRI ISCN or EOC NPRI ISCN.	The count is incremented by 2 for each TMC PRI ISCN and for each TMC NPRI ISCN entry. The count is incremented by 3 for each EOC PRI ISCN and for each EOC NPRI ISCN entry.
TRUNK	TRKCLS equals to "IFOPER", "IFTERM" or "EDSL" on the TKGRP form. SM is the first three digits of DEN or NEN SHELF/CHL GRP is the first three digits of ISCN.	The count is incremented by 1 for each unique TRUNK form.
XAT	SM is the first three digits of OE SHELF/CHL GRP is the first three digits of ISCN.	The count is incremented by 1 for each unique XAT form.

IFTERM:

Note that there is a limit of 20 PRIs to an SM, although this limit may be lower due to traffic engineering constraints.

If "IFTERM" is entered in the TRKCLS field, then on the corresponding TRUNK forms: DEN must be specified; the SUPV, IN START DIAL, and OUT START DIAL fields must be blank; and the EXT GUARD TIMING and ANSWER DELAY TIMING fields must be "N" or blank.

For 5E6 and later, if the DLTU TYPE is "DLTU24" or "DLTU48" on the corresponding EQDU form (5730 Record), the INPUTSING or OUTPUTSING field on this form is "DCHN", and TRK DIR is "2W", "INC", or "OUT", then DATA RATE on this form must be "56K", "R64K", "64K", or not entered. If "DLTU24" or "DLTU48" is entered in DLTU TYPE on the corresponding DLTU form (5730 Record), "DCHN" is entered in the INPUTSING or OUTPUTSING fields on this form, and TRK DIR is "SGNL", then the DATA RATE field on

this form must not be entered. The corresponding EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit respectively of the DEN on the TRUNK form (5204 Record).

If "SGNL" is entered in the TRK DIR field, each member of the trunk group must be a D-channel. On the corresponding TRUNK forms, the ISCN and PSCLI fields must be specified, and the last two digits of the DEN field must be 24 or 48.

If "INC" is entered in the TRK DIR field, then each member of that trunk group must be a B-channel. On the corresponding TRUNK forms the last two digits of the DEN field must be in the range 1 to 23 or 25 to 47.

For 5E6 and later, if TRKCLS is "IFOPER" or "IFTERM", there must be a corresponding INFLTADP form (5452 Record) where DCHTGN or BCHTGN in the OSPS LIST equals TGN on this TKGRP form.

See "IFOPER" for 5E9(1) and later data rule for LLCB assignments.

For 5E10 and later:

If "IFTERM" is entered, then:

- the associated MEMBs on the TRUNK form must have the required entry for DEN.
- and have TGN/MEMBs on the TRUNK form whose DEN[1,3] or NEN[1,3] values match an SM on the EQIM form with UNIT TYPE of SM2000, is not allowed.
- on the TRUNK form:

ANSWER DELAY TIMING must be "N" or not entered

EXT. GUARD TIMING must be "N"

IN START DIAL must not be entered

OUT START DIAL must be entered

SUPV must be "EM2" or not entered

INAISTRK:

For 5E6(2) and later, if TRKCLS is "INAISTRK" then the following conditions must be met.

- The following fields must be "N":

ACP SDN

AUDIBLE

BARGE IN

BRCS

BW LAMP

COINRTN FNL

COINRTN INT

CUT THRU

FREE ANS

FREE TERM

HOLD BUSY

INC TND WINK

INTER SM TRK

LN VIRT

LS DLY ANS

OUTPLS REQ

PRIVACY

RETRY

SATELLITE

SDN STAT GRP

TRUNK QUERY

UNRES EA

XLT TEST

- The following fields must not be entered if "INAISTRK" is entered:

BUSY LAMP

CARRIER ID

CYCLES

DATA RATE

DSN ARS ID

ENQUEUE ACT or it must be "N"

FAR END LATA

FAR END NPA

FAR END NXX

FEND CLLI

HUNT TYPE

LOCAL RSM

MAKE BUSY KEY

NEND CLLI

NEXT PSN

ORIG LATA

PBX ID

SIGNAL

TRUNK CHAR

TSPS TYPE

VPA RATE

WARN THRESH

- If the following fields are entered they must be "NONE":

OUTPULSING

RLT TYPE

- The following fields must be "NONE":

LN TYPE

NCD SCREENING

- CCS7 TYPE must be "BELLCORE".
- DIR CON DN must be 6, 7, or 8 for incoming seizure only trunks.
- INPULSING must be "NONE", "MF" or "DP".
- SVC GRP must be "NOANNC".
- TRK DIR must be "INC".
- VPA TYPE must not be entered, or VPA TYPE is "NOVPA".

If TRKCLS is "INAISTRK" on the TKGRP form, the following forms are affected:

- APGFP form:

The corresponding APGFP form is found by matching GROUP NO/GROUP NAME of APGFP with TGN of TKGRP form and GROUP/FACILITY TYPE of APGFP form must be "TRKG".

— NUTS/LUTS ACTIVE on the APGFP form must be "N".

— SHT THRESHOLD on the APGFP form must be 0.

— LHT THRESHOLD on the APGFP form must be 0.

- TRUNK form:

The corresponding TRUNK form is found by matching the TGN value with the TGN value on this form.

If the trunk members on a TRUNK form belong to a trunk group which has a TRKCLS value of "INAISTRK", the members must not be assigned to an SM on an EQIM form with a CONFIGURATION of "BASIC". Also, if the INPULSING field on the TKGRP form is equal to "NONE", then the associated TRUNK form(s) must have IN START DIAL set to "DIRC". Conversely, if the INPULSING field on this form is not equal to "NONE", then the associated TRUNK form(s) cannot have IN START DIAL set to "DIRC".

If TRK DIR on the TKGRP form is equal to "OUT", then the associated TRUNK form(s) must have IN START DIAL set to "DIRC", "IMED", "WINK" or "DLAY".

The associated TRUNK form(s) must not have OUT START DIAL set to "STOP".

Also, the associated TRUNK forms must have ANSWER DELAY TIMING set to "N".

- **TIMING form:**

At least one TIMING form must be submitted with a SERVICE CLASS of "INAISTRK". SIGNAL TYPE on the TIMING form equals the INPULSING on the TKGRP Form and START SIGNAL on the TIMING form equals the IN START DIAL on the TRUNK form.

For 5E8 and later, if "DIOR", "FIOPR", "FOPRI", or "INAISTRK" is entered, the members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports incoming AIS trunks. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E15 and later, when TRKCLS is "INAISTRK", CQ/BQ ALW must be "N".

LATA:

Used by an Interexchange Carrier switch on Incoming or Two-Way Trunk Groups from an Equal Access End Office or Access Tandem. Also used by the Interexchange Carrier for CMC (Cellular Mobile Carrier) Trunk Groups. If any Trunk Group is defined with this Trunk Class, the Fixed Route Type of "ESMRT" must be defined on the FIXRT form (5301-1 Record). For 5E5 and later, an entry of "LATA" requires an entry of "Y" in the OFFICE TYPE field of the OFCOPT form (5509 Record) indicating that this is a Toll office. For 5E6 and later, if the Trunk Group is Outgoing or Two-Way, TRK DIR is "OUT" or "2W", the OUTPULSING signaling may be "MF", "CCIS6", or "ISUP7". If the TRK DIR is "INC" or "2W", the INPULSING signaling may be "MF", "CCIS6", or "ISUP7".

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPULSING or OUTPULSING field on this form is "MF", then DATA RATE on this form must be "56K" or not entered. The EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

For 5E6 and later, when TRKCLS is "LATA", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "ESMRT".

PRINTOLL:

For use by AT&T only. Specify this Trunk Class for trunks that interconnect two toll offices. All Primary Intertoll Trunks can carry the Ring Forward and Ring Back Signals. For 5E5 and later, an entry of "PRINTOLL" requires an entry of "Y" in the OFFICE TYPE field of the OFCOPT form (5509 Record) indicating that this is a Toll office.

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPULSING or OUTPULSING field on this form is "MF", then DATA RATE on this form must be

"56K" or not entered. The EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

RAFANNC:

For 5E6 and later, the TKGRP form with a TRKCLS of "RAFANNC" cannot be assigned AOCs (Announcement Only Channels) with RAFs that have a RAF SERVICE TYPE of "DTA" or "CTR" unless the AOC field has a value of "Y" on the EQRA form (5821 Record).

For 5E8 and later, when TRKCLS is "RAFANNC":

- QUEUE FEATURE cannot be entered
- RETRY must be "N"
- SVC GRP must be "AOC" or "DA"

RAFCTR:

For 5E5 and later, when the TRKCLS is "RAFCTR", and RAF EN is entered on the TRUNK form, then the RAF ENs must be assigned according to the stuffing patterns shown on the 5271-4 Record. See Division 3, Section 2Q, for more information on stuffing patterns.

For 5E8 and later, when TRKCLS is "RAFCTR":

- ENQUEUE ACT must not be "Y"
- QUEUE FEATURE must not be entered
- PBX ID must be unknown (5E9(1) and later)
- SVC GRP must be "COIN"
- TRK DIR must be "RAF"

RAFDTA:

For 5E5 and later, when the TRKCLS is "RAFDTA", and RAF EN is entered on the TRUNK form, then the RAF ENs must be assigned according to the stuffing patterns shown on the 5271-4 Record. See Division 3, Section 2Q, for more information on stuffing patterns.

For 5E8 and later, when TRKCLS is "RAFDTA":

- PBX ID must be unknown (5E9(1) and later)
- RETRY must be "N"
- SVC GRP must be
- "ACCS"
- "ACSR"
- "ASP"
- "RAS"

If TRKCLS is "RAFDTA" and SVC GRP is "ACCS", then QUEUE ALLOWED must be "Y".

SPAB800:

Special Access Basic 800 service allows calls that terminate at a 5ESS Toll Switch to be routed to the customer's PBX over a dedicated trunk group. The called party will be billed for the call.

SCINTOLL:

These trunks interconnect the 5ESS Switch toll office with a manual switchboard or TSPS. The 5ESS Switch toll office and the switchboard or TSPS are of equal class and are associated as a single unit.

Secondary Intertoll Trunk applications include:

- Toll Tandem Trunks One-Way from a switchboard or TSPS to the 5ESS Switch toll office.
- OA (Operator Assistance) and LW (Leave Word) Trunks One-Way from the 5ESS Switch toll office to an OA or LW operator at a switchboard or TSPS.
- Residual Trunks One-Way from the 5ESS Switch to a switchboard are used by the originating operator to reach another operator to assist in call completion.
- Delayed Call Trunks are used by a TSPS operator to reach both the calling and called parties by establishing two separate connections through the serving 5ESS Switch toll office. The called and calling parties are joined at the TSPS through the delayed call trunk circuit which has two separate and distinct incoming trunk appearances in the 5ESS Switch toll office.

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPULSING or OUTPUTSING field on this form is "MF", then DATA RATE on this form must be "56K" or not entered. The EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

SPAM800:

MEGACOM 800 is similar to the Special Access Basic 800 service except that the customer must supply the direct connection to the 5ESS Toll Switch. The called party will be billed for the call.

SPAMEG:

MEGACOM is similar to WATS service except that there is no subscription to a band and the customer must supply the direct connection to the 5ESS Toll Switch. The 5ESS Switch will process the call like a WATS band 6 call. For this Trunk Class, the SPA BILL DN and SPA SUPV fields must be entered.

SPAWATS:

Special Access WATS is similar to regular switched WATS except Special Access WATS allows a customer's PBX (digital or analog) to connect directly to the 5ESS Toll Switch via a T1 carrier. Special Access WATS customer's calls will be incoming to the 5ESS Toll Switch via this dedicated trunk group. The 6th digit of the SPA BILL DN will determine the customer's subscribed band number. For this Trunk Class, the SPA BILL DN and SPA SUPV fields must be entered.

TCIKT:

TGNs defined with a TRKCLS of "TCIKT" must have a TCITG form (5422 Record) defined with matching TGNs.

For 5E7 and later, trunk members of a trunk group with a TRKCLS of "CAMOPKEY" or "TCIKT" must reside on the same Switching Module as the trunk member that has the TALKING TRUNK TGN and MBR NO entered, i.e. the first three digits of the DEN, TEN, or (for 5E9(2) and later) NEN must be the same.

TCITT:

TGNs defined with a TRKCLS of "TCITT" must have a TCITG form (5422 Record) defined with matching TGNs.

For 5E7 and later, trunk members of a trunk group with a TRKCLS of "CAMOPTLK" or "TCITT" must reside on the same Switching Module as the trunk member that has the KEYING TRUNK TGN and MBR NO entered, i.e. the first three digits of the DEN, TEN, or (for 5E9(2) and later) NEN must be the same.

For 5E8 and later, each member of this trunk group is defined as MEMB on a TRUNK form where KEYING

TRUNK TGN and KEYING TRUNK MBR NO are entered. The keying trunk must be defined as TGN and MEMB on another TRUNK form.

For 5E9(1) and later, "TCITT" trunk group members must be defined with REMOVE TRUNK set to "Y" on the TRUNK form when the trunk is located on an SM for which the EQIM form has STAND ALONE set to "Y" or the associated EQSITE form (5722 Record) has STAND ALONE PURCHASED set to "Y".

TTOLLCON:

Specify this Trunk Class for DDD Access and Toll Completing Trunks. DDD Access Trunks are trunks from a Class 5 to a toll office which carry non-coin toll traffic. Also specify this Trunk Class for trunks at an Access Tandem or local tandem switch for trunks from a class 5 office or another tandem. Also specify this Trunk Class for the trunks between two Long Distance Platform switches using the LDP feature (SFID 165 on the SFSYS form set to "Y"). Recording and timing are done at the local office. Operator assistance is never required. Toll Completing Trunks are trunks from a toll office to a Class 5 office. This Trunk Class may also be used for RSMs.

For 5E6 and later, when TRKCLS is "TTOLLCON" and TRK DIR is "2W", OUTPUTSING must be "MF", "DP", "TT", "CCIS6", or "ISUP7".

For 5E6 and later, if DLTU TYPE on the corresponding EQDU form (5730 Record) is "DLTU24" or "DLTU48" and the INPUTSING or OUTPUTSING field on this form is "MF", then DATA RATE on this form must be "56K" or not entered. The EQDU form is found by matching the SM and DLTU NUMBER with the first 3 digits and the 4th digit of the DEN, respectively, on the TRUNK form.

For 5E11 and later, when TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

For 5E13 and later, when TRKCLS is "TTOLLCON", QUEUE FEATURE is known, and LN TYPE is "NONE" or is unknown on the TKGRP form, the QUEUE TYPE must be set to "REROUTE" or "HPCOHQ" on the corresponding QUFD form. QUEUE FEATURE on the TKGRP form matches FEATURE NAME on the QUFD form.

General:

For 5E6 and later Software Releases, if the RAF TYPE on the 5271-4 Record is "ANN", "CTR" or "DTA", the associated TKGRP form must have a TRKCLS with a value of "RAFANNC", "RAFCTR" or "RAFDTA", respectively.

If OUTPUTSING or INPUTSING is entered as "CCIS6", then TRKCLS must be "LTOLLCON", "TTOLLCON", "PRINTOLL", "SCINTOLL", "BVINTOLL", or "BVTOLLCON", and BRCS must be "N".

For 5E4(2) and later, if trunks in this group are assigned a Precedence and Preemption feature on the TRUNKFA form or associated CLUSTER form, then the TRKCLS entered here must agree with the DSN (Defense Switched Network) TRUNK TYPE on the PPFD form (5618-1 Record) or PPTPA form (5618-5 Record) as follows. If TRUNK TYPE is "NONRCD" or "RCD", TRKCLS must be "PRINTOLL"; if TRUNK TYPE is "EOINID", "EOPNID", or "EORNID", then TRKCLS must be "TTOLLCON".

The following Trunk Class entries apply to Trunk Groups which are used as Logical Test Ports. Logical Test Ports identify the existence and location of specific types of test equipment such as ALIT Circuits, DC Jacks, TTF Circuits, etc. The Software Release uses these LTPs to establish connections between a testing facility and a line or trunk to be tested.

Valid TRKCLS Entries (Logical Test Ports)	
Entry	Definition
LTPALIT	Logical Test Port for the Automatic Line Insulation Test Circuit. Refer to Division 2, Section 2A,

	"Automatic Line Insulation Testing (ALIT)."
LTPCLBCK	Logical Test Port for Remote Call Back to the TLWS (Trunk and Line Work Station). Also used for IMLT-2 Callback Route.
LTPDCJCK	Logical Test Port for DC Jacks on the Trunk and Line Work Station. Refer to Division 2, Section 2H, "Trunk and Line Work Station Test Access Unit."
LTPDCTU	Logical Test Ports for the DCTU (Directly Connected Test Unit). Refer to Division 2, Section 2J, which describes the DCTU feature.
LTPDFTAC	Logical Test Port required for the DFTAC (Distributing Frame Test Access Controller) circuit of the integrated MLT-2 feature. Refer to Division 2, Section 2S, "Integrated Mechanized Loop Testing System (IMLT-2)."
LTPDGTTF	Logical Test Port required for Diagnostics using the TTF (Transmission Test Facility). Refer to Division 2, Section 2L, "Channel Circuit Diagnostics."
LTPELSTF	Software Release: 5E3 and later. Logical Test Port required for Electronic Loop Segregation using the TTF. Refer to Division 2, Section 2P, "Electronic Segregation (ELS)."
LTPICTC	Logical Test Port for Incoming Test Call, e.g. 100, 102, or 105 Test Lines or Station Ringer. Refer to Division 2, Section 2D, "Terminating Test Lines,," and Section 2F, "Station Ringer Touch-Tone Tests (SRTT)."
LTPISTFL	Software Release: 5E3 and later. Logical Test Port for the DSU2 Integrated Services Test Function Loopback. Refer to Division 2, Section 2C, "Outgoing Transmission Test Calls."
LTPISTFX	Software Release: 5E3 and later. Logical Test Port for the DSU2 Integrated Services Test Function Transmission. Refer to Division 2, Section 2B, "Automatic Progression Testing (APT),," and Section 2C, "Outgoing Transmission Test Calls."
LTPMSU	Logical Test Port for the Metallic Access Junctors on the Metallic Service Unit. Refer to Division 2, Section 2A, "Automatic Line Insulation Testing (ALIT),," and Section 2H, "Trunk and Line Work Station Test Access Unit (TLWS)."
LTPOGTC	Logical Test Port for Outgoing Test Call Originated from a Trunk and Line Work Station. Refer to Division 2, Section 2B, "Automatic Progression Testing (APT),," and Section 2C, "Outgoing Transmission Test Calls."
LTPOTOTF	Software Release: 5E3 and later. Logical Test Port for Office-to-Office Testing using the TTF. Refer to Division 2, Section 2G, "Office-To-Office Testing (OTO)."
LTPROTL	Logical Test Port for Incoming Calls Originated from a Remote Office Test Line. Refer to Division 2, Section 2I, "Remote Office Test Line (ROTL)."
LTPSLIM	Software Release: 5E10 and later. Subscriber Line and Instrument Measurement Test LTP. Refer to Div. 2, Section 4A230.
LTPS96TF	Software Release: 5E3 and later. Logical Test Port required for SLC96 Remote Terminal Diagnostics. Refer to Division 2, Section 2L, "Channel Circuit Diagnostics."
LTPWSTTF	Logical Test Port for Interactive Trunk and Line Work Station Testing Using the TTF. Refer to Division 2, Section 2H, "Trunk and Line Work Station Test Access Unit."
RMSD3	Software Release: 5E4 and later. Digital Test Access Trunk connected from a 5ESS Switch to a RMS-D3 test device over a T1.
TOPAS	Software Release: 5E4 and later. Digital Test Access Trunk connected from a 5ESS Switch to an RMS-D3 test device over a T1. This is only used when a Trunk Group with a TRKCLS of "RMSD3" cannot be used.

Data Rules for Logical Test Port TRKCLSs:

LTPCLBCK:

For 5E6 and later, when the TRKCLS is "LTPCLBCK", NEND CLLI must not be entered, INC TND WINK must be "N", TRUNK QUERY and XLT TEST must not be entered or must be entered as "N", and VPA TYPE must not be entered or must be "NOVPA".

For 5E7 and later, when TRKCLS is "LTPCLBCK", a FIXRT form must exist with FIXED ROUTE TYPE set to

"CALLBACK".

For 5E9(1) and later, if "LTPCLBCK" or "LTPDFTAC" is entered, and if one or more corresponding TRUNK forms are entered, then one of those TRUNK forms must be defined with MEMB set to 0.

For 5E15 and later, CQ/BQ ALW must not be entered or must be entered as "N" for LTPCLBCK trunks.

LTPDFTAC:

For 5E9(1) and later, if "LTPCLBCK" or "LTPDFTAC" is entered, and if one or more corresponding TRUNK forms are entered, then one of those TRUNK forms must be defined with MEMB set to 0.

LTPICTC:

For 5E6 and later, if an RTIDX form has TRUNK GROUP NUMBER assigned to the TKGRP form with TRKCLS equal to "LTPICTC", the following fields on the RTIDX form should be assigned as shown:

- ROUTE TYPE equals "HUNT" or "TEST",
- DIGITS TO BE DELETED equals 0,
- PREFIX DIGITS not entered,
- ANI OUTPUTSING equals "N",
- OVERLAP OUTPUTSING equals "N",
- SIGNALING PROTOCOL equals "TRAD", and
- CI ROUTE TYPE equals "OTHER",

In addition, for 5E7 and later, the value of NEXT ROUTE must not be entered, or if a NEXT ROUTE is entered, it must point to a RTIDX form with ROUTE TYPE of "REORDER".

For 5E6 and later, when TRKCLS is "LTPICTC", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "ICTSTCL".

LTPISTFL:

For 5E6 and later, when TRKCLS is "LTPISTFL", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "ISTFLB".

For 5E7 and later, when TRKCLS is "LTPISTFL" and assigned to a ROUTE INDEX on the RTIDX form, the ROUTE INDEX (RTI on the LINE form) must be assigned to a TN on a LINE form. The value of the TEST CODE field must be either "INV" or "NINV".

For 5E9 and later, when TRKCLS is "LTPISTFL" or "LTPISTFX" and assigned to a ROUTE INDEX on the RTIDX form, the ROUTE INDEX (RTI on the LINE form) must be assigned to a TN on a LINE form. The value of the TEST CODE field must be either "INV" or "NINV".

LTPISTFX:

For 5E6 and later, when TRKCLS is "LTPISTFX", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "ISTFXMIT".

For 5E9 and later, when TRKCLS is "LTPISTFX" or "LTPISTFL" and assigned to a ROUTE INDEX on the RTIDX form, the ROUTE INDEX (RTI on the LINE form) must be assigned to a TN on a LINE form. The value of the TEST CODE field must be either "INV" or "NINV".

LTPOGTC:

For 5E7 and later, when TRKCLS is "LTPOGTC", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "APT".

LTPROTL:

For 5E3 and later, when the TRKCLS is "LTPROTL", TRUNK CHAR, FEND CLLI, and NEND CLLI must not

be entered. FREE ANS and INC TND WINK must be "N". TRUNK QUERY and XLT TEST must not be entered or must be entered as "N". VPA TYPE must not be entered or must be entered as "NOVPA". For 5E6 and later, SVC GRP must be entered as "NOANNC".

For 5E10 and later, every 5 Trunk Group members that are assigned a Logical Test Port (LTP) on the TRUNK form(s) and are associated with a TRKCLS of "LTPS96TF", "LTPROTL", and "LTPDGTTF" on the TKGRP form(s) for a particular SM, there must exist a corresponding TTF responder board defined on the EQDSP form(s) for the SM. This 5 to 1 ratio must be maintained for the proper operation of the trunk groups.

For 5E15 and later, CQ/BQ ALW must not be entered or must be entered as "N" for LTPROTL trunks.

LTPS96TF:

FIXRT form must exist with FIXED ROUTE TYPE set to "S96CTST".

For 5E10 and later, every 5 Trunk Group members that are assigned a Logical Test Port (LTP) on the TRUNK form(s) and are associated with a TRKCLS of "LTPS96TF", "LTPROTL", and "LTPDGTTF" on the TKGRP form(s) for a particular SM, there must exist a corresponding TTF responder board defined on the EQDSP form(s) for the SM. This 5 to 1 ratio must be maintained for the proper operation of the trunk groups.

LTPSLIM:

For 5E12 and later, the IM specified in the LTP on the trunk form must be equipped with an MMSU (Modular Metallic Service Unit) containing a SLIM pack on the EQMMSP form (5750 Record) for the IM value, or the TGN must have a Route Index on the RTIDX form (5303 Record) that matches a SLIM RI on the EQAIUP form (5746 Record).

LTPWSTTF:

For 5E6 and later, when TRKCLS is "LTPWSTTF", at least one FIXRT form must exist with FIXED ROUTE TYPE set to "INTTF".

RMSD3:

A maximum of three Trunk Groups with TRKCLS of "RMSD3" are allowed.

For 5E9(1) and later, if "RMSD3", "TOPAS", or "TSTK" is entered, then "ON" must be entered in the IDLE STATE field on the corresponding TRUNK form (5204 Record).

For 5E9(2) and later, an SM assigned on the EQIM form must have a CONFIGURATION that supports "RMSD3". For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E15 and later, when TRKCLS is RMSD3 or TOPAS, then CQ/BQ ALW must be blank.

TOPAS:

Only one Trunk Group with TRKCLS of "TOPAS" is allowed.

For 5E9(1) and later, if "RMSD3", "TOPAS", or "TSTK" is entered, then "ON" must be entered in the IDLE STATE field on the corresponding TRUNK form (5204 Record).

For 5E15 and later, when TRKCLS is RMSD3 or TOPAS, then CQ/BQ ALW must be blank.

TSTK:

For 5E9(1) and later, if "RMSD3", "TOPAS", or "TSTK" is entered, then "ON" must be entered in the IDLE STATE field on the corresponding TRUNK form (5204 Record).

2.10 CARRIER ID

Description: Enter the InterLATA Carrier ID.

Valid Entries:

5E9(1) and later:
0 - 9999

Data Rules:

It is required when TRKCLS is "IC". It is also required when the Trunk Group is an LTP type used for IMLT-2 Callback when a carrier is needed for routing the Callback Telephone Number (when the subsequent Type of CI Call is other than NONCI, INTRA or PRIV). In this case, the Trunk Class is "LTPCLBCK" and is pointed to by the Fixed Route Type of "CALLBACK". In all other cases, leave this field blank.

CARRIER ID cannot be entered on TKGRP forms with TRKCLS of "LTOLLCON", "PRINTOLL", "SCINTOLL" or "TTOLLCON" unless OSPS TA is "Y" on the OSPSOPT form.

CARRIER ID can only be entered if TRKCLS is one of the following:

- "IC"
- "LATA"(5E10 and later)
- "LTOLLCON"
- "LTPCLBCK"
- "LTPDFTAC"
- "LTPPROTL"
- "PRINTOLL"
- "SCINTOLL"
- "TSPS".
- "TTOLLCON"

For 5E3 and later, if the CARRIER ID is specified for a TRKCLS of "LTPDFTAC", "LTPCLBCK" or "LTPROTL", then a BILLING DN must be entered. If the CARRIER ID is not specified, the BILLING DN must not be entered.

For 5E8 and later, when CARRIER ID is entered:

- FEAT GRP must be entered;
- CARRIER ID should equal CARRIER ID on an ICF form, and
- FEAT GRP should equal the ICF form's FEAT GRP.

For 5E15 and later, when CARRIER ID is entered, TRKCLS must be "CAMA", "LATA", "LTOLLCON", "LTPCLBCK", "LTPDFTAC", "LTPROTL", "PF", "PRINTOLL", "SCINTOLL", "TSPS", or "TTOLLCON".

2.11 FEAT GRP

Description: Enter the Feature Group for the CARRIER ID. (See Division 2, Section 1AY for information about Feature Groups B and D.)

Software Release: 5E8 and later

Valid Entries:

Valid FEAT GRP Entries	
Entry	Definition
B	Feature Group B Carrier
D	Feature Group D Carrier

Data Rules:

When FEAT GRP is entered, CARRIER ID must be entered.

When CARRIER ID is entered, FEAT GRP must be entered,

If CARRIER ID and FEAT GRP are entered the CARRIER ID and FEAT GRP must be defined on the ICF form (5305 Record).

For 5E11 and later, when FEAT GRP is "B" or "D", CNA OPTION must be "NONE"

2.12 # FREE ANS

Description: Should Answer Supervision be returned, for billing purposes, on the trunk group for calls to a free line or trunk. "Y" must be entered for trunk groups directly connected to a carrier and for trunk groups which handle carrier traffic and serve offices with free line service.

- NOTE:** A PBX or end-office off the 5ESS Switch does not receive answer supervision when routing to TSPS (0+ or 0- calls). when FREE ANS is "N" (the default). With FREE ANS set to "Y", the off-hook from the TSPS to request ANI is sent back as answer supervision.

Required Field.

- NOTE:** In some cases there are other vendor switches that require answer supervision to maintain the talk path even though the call is free. For E911 calls where there is a ISUP (Integrated Services User Part) trunk origination at the E911 tandem, FREE ANS should be set to "Y" on the incoming ISUP trunk to ensure that answer supervision is sent back to the originating switch.

Default: N

Valid Entries: Y, N

Data Rules:

If the TRK DIR is "RAF", this entry must be "N".

If TRKCLS is "RMSD3" or "TOPAS" this entry must be "N".

2.13 # INC TND WINK

Description: This field is used only in an AT (Access Tandem) to specify whether or not the first wink from an International Carrier should be passed to the EAEO (Equal Access End Office). At the AT, on an Incoming or Two-Way Trunk Group from an EAEO, enter "Y" (Yes) if the EAEO is programmed to recognize, and therefore expects, the first wink back on an International Carrier Interconnect call. (If the originating EAEO is a 5ESS Switch, this will be specified with EXTRA START WINK equal to "Y" on the OFCOPT form [5509 Record].) In all other cases, (e.g., the EAEO does not expect the wink, this is not an AT, etc.), enter "N".

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If the TRK DIR is "RAF", INC TND WINK must be "N".

If TRKCLS is "RMSD3" or "TOPAS", INC TND WINK must be "N".

2.14 ATTTN

Description: Enter the ATTTN (Automatic Trunk Test Table Number), defined on a Trunk Group basis.

Valid Entries: 1 - 999

Data Rules:

If ATTTN is entered, a corresponding AUTO form is required where the entry in the ATTTN field on the TKGRP form equals the AUTOMATIC TRUNK TEST TABLE NUMBER entry on the AUTO form.

When ATTTN is entered for a trunk group with An ATTTN value may be entered only for the following TRKCLSs:

"ATNDVIFY"
"CAMA"
"CST1"
"CST2"
"EDSL"
"EDSLHM"
"FOPRI"
"FOPRT"
"IC"
"IFOPER"
"IDCS"
"IVTRK"
"LATA"
"LTOLLCON",
"PBXDID"
"PF"
"PFLASH"
"PFITT"
"PRINTOLL"
"SCINTOLL"
"SPCHNDLR"
"TSPS"
"TTOLLCON"

The following TRKCLS values normally require an ATTTN value if the corresponding TRK DIR is "OUT" or "2W":

- "ATNDVIFY"
- "CAMA"
- "EDSL"
- "EDSLHM"
- "FOPRI"
- "FOPRT"
- "IC"
- "IFOPER"

- "LATA"
- "LTOLLCON"
- "PBXDID"
- "PF"
- "PFITT"
- "PFLASH"
- "PRINTOLL"
- "SCINTOLL"
- "TSPS"
- "TTOLLCON"

For 5E4(2) and later, an ATTTN that is entered for a non-CCS trunk group (OUTPUTSING other than "ISUP7" and "CCIS6") may not have an AUTOMATIC PROGRESSION TEST TYPE of "CONT" on the AUTO form.

For the TRKCLS of "TSPS" which terminates on an OSPA "FIOPR" TRKCLS, the test numbers associated with that ATTTN must adhere to the format (10x, 958-10x, or 959-10x) that is defined on the AUTO form (5505 Record). The ATTTN field must not be entered if TRK DIR is "INC", "ANN", "SGNL", or "RAF", or if TRKCLS is not listed above.

An ATTTN may be assigned to outgoing OSPA EDSL (PRI) B-channel trunk groups (TRKCLS of "IFOPER" and TRK DIR of "OUT"). The ATTTN field must be left blank for OSPA EDSL (PRI) D-channel trunk groups (TRKCLS "IFOPER" or "IFTERM" and TRK DIR "SGNL") and incoming OSPA EDSL B-channel trunk groups (TRKCLS "IFTERM" and TRK DIR "INC").

For 5E9(1) and later, when ATTTN is entered for a trunk group with TRKCLS "IFOPER", "EDSL", or "EDSLHM", an associated AUTO form must be entered; the AUTOMATIC PROGRESSION TEST TYPE on the AUTO form must be "INV", "NINV", or blank.

For 5E9(1) and later, when ATTTN is entered for a DCS (Digital Cellular Switch) trunk group (DCS TRK is "Y"), the following rules apply.

- If the trunk group is CCS (OUTPUTSING is "CCIS6" or "ISUP7"), an AUTOMATIC PROGRESSION TEST TYPE entered on the corresponding AUTO form must be "CONT", "PB", "105", or "NINV".
- The AUTOMATIC PROGRESSION TEST TYPE on the AUTO form may be "102LB" only if TRKCLS on this form is "CST2" or "IVTRK".
- If the trunk group has TRKCLS set to "CST2" or "IVTRK", AUTOMATIC PROGRESSION TEST TYPE on the AUTO form must be "102LB" or "NINV". If the test is "NINV", the NINV TYPE TEST field on the AUTO form must be blank.
- If the trunk group has TRKCLS set to a value other than "CST2" or "IVTRK", and AUTOMATIC PROGRESSION TEST TYPE on the AUTO form is "NINV", then NINV TYPE TEST must be entered on that form.
- If the trunk group has TRKCLS set to "CST1", AUTOMATIC PROGRESSION TEST TYPE on the AUTO form must be 105, and the 105 TYPE TEST field on the AUTO form must be blank.
- If the trunk group has a TRKCLS other than "CST1", and AUTOMATIC PROGRESSION TEST TYPE is 105 on the corresponding AUTO form, a value must be entered in 105 TYPE TEST field on the AUTO form.

- if ATTN is entered, DCS TRK is "Y", and
 - AUTOMATIC PROGRESSION TEST TYPE is 105 on the corresponding AUTO input form, then a DCSTT form (5055 Record) must be entered with the same ATTN value and TEST TYPE of 105. The ATTTN field on the TKGRP form corresponds to AUTOMATIC TRUNK TEST TABLE NUMBER on the AUTO form and to ATTTN on the DCSTT form.
 - AUTOMATIC PROGRESSION TEST TYPE is "102LB" on the corresponding AUTO form, then a corresponding DCSTT form must be entered with the same ATTN value and TEST TYPE of "102LB". ATTTN corresponds to the AUTOMATIC TRUNK TEST TABLE NUMBER on the AUTO form and to ATTTN on the DCSTT form.
 - and AUTOMATIC PROGRESSION TEST TYPE is "NINV" on the AUTO form, then a DCSDT form must be entered with the same ATTN value. ATTTN corresponds to the AUTOMATIC TRUNK TEST TABLE NUMBER on the AUTO form and to ATTTN on the DCSDT form.

For 5E9(1) and later, if a CCS trunk group (INPULSING or OUTPULSING is "CCIS6" or "ISUP7") has DCS TRK set to "N", then if an AUTOMATIC PROGRESSION TEST TYPE is entered on a corresponding AUTO form, it must be "CONT" or "PB".

For 5E12 and later, when ATTTN is not entered and TRKCLASS is not "SPCHNDLR", IAPT must be "Y".

2.15 TERA RCVY

Description: TERA (Trunk Error Analysis) provides analysis of call irregularities and maintenance events (Trunk Facility Operational Test and Circuit Diagnostic Test results) having a high probability of errors resulting from trunk or service circuit failures.

MDII (Machine Detected Inter-Office Irregularities) are analyzed by two methods. Peer Group analysis recognizes when a member in a group of equipment is experiencing a significantly higher error rate than other members of the equipment group. Quick Check analysis recognizes consecutive errors on a particular circuit.

Upon failing analysis, recovery action is taken on the circuit.

Software Release: 5E3 and later

Valid Entries:

Valid TERA RCVY Entries	
Entry	Definition
NOA	No action taken; no report is generated; and trunk is not removed from service.
RMV	Removes the trunk which failed analysis without performing an operational test.
RPT	No recovery action beyond reporting that a trunk has received an excessive number of MDIIs.
TST	Operational test may be performed when a trunk reaches MDII. "TST" is only valid when an entry has been made in the ATTTN field.

Data Rules:

If a value is entered in the ATTTN field and the TERA RCVY field is left blank, TERA RCVY will be defaulted to the "TST" value.

If both the ATTTN and TERA RCVY fields are left blank, TERA RCVY will be defaulted to the "RPT" value.

If TRK DIR is "RAF", then this field must be "NOA".

2.16 # IAPT

Description: Should Automatic Progression Testing be inhibited when an ATTTN is specified?

Required Field.

Valid Entries: Y, N

Data Rules:

If ATTTN is left blank, IAPT must be "Y".

For 5E11 and later:

"Y" must be entered if:

- if ATTTN is not entered and TRKCLS is not "SPCHNDLR".
- if DCS TRK is "Y" and TRKCLS is not "SPCHNDLR".

2.17 CALLMON INH

Description: Inhibit call monitor testing?

Software Release: 5E9(1) and later.

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

If IAPT is "Y", then CALLMON INH must be Y.

2.18 INSEP

Description: Enter the Incoming Separation Class Number. This entry is applicable for the Division of Revenue Feature and must be specified on the 5308 Record.

Valid Entries: 1 - 255

Data Rules:

An INSEP is required for all Two-Way and Incoming Trunk Groups.

If INSEP is assigned, it must be defined on the Traffic Separation Cell Grouping, TRFSEP form (5308 Record).

INSEP 0 is used by the Software Release whenever no INSEP is provided by the incoming line or trunk translations. INSEP 63 is used by the Switch for calls that are not applicable to DOR (i.e. busy, reorder etc.). These values (0, 63) should not be assigned.

2.19 INPULSING

Description: Enter the Pulsing Type on Incoming or Two-Way Trunk Groups.

Valid INPULSING Entries

Entry	Definition
CCIS6	CCIS6 Signaling.
DCHN	Software Release: 5E3 and later. D-channel signaling for DSLs. This value is used for TRKCLSs of "EDSL", "EDSLHM", "IFOPER" and "IFTERM" and only under certain conditions. See Figures 1 and 2 for acceptable entry details.
DCS	Software Release: 5E9(1) and later. Autoplex Digital Cellular Switch.
DP	Dial Pulse
ISUP7	ISDN CCITT7 Signaling. Warning: For incoming ISUP7 trunks at an Originating Access Tandem office or at an Originating Toll office that handles international traffic, the CKT CODE must be defined on a CKTCODE (5311 Record) form and populated in a RTIDX (5303 Record) form. This rule applies in 5E6 and later Software Releases. It is not RC/ODA enforceable.
MF	Multifrequency
NONE	No inpulsing. Used only for Direct Connect Trunks, therefore, a number must be specified in DIR CON DN.
PP	Software Release: 5E10 and later. Packet Pipe signaling for CDMA (Code Division Multiple Access). For more information on CDMA, see Division 2, Section 8B.
RPEO	Revertive Pulsing End Office
RPTO	Revertive Pulsing Tandem Office
TT	Touch Tone.

Data Rules:

If TRKCLS is "X75", "X75P", or "PACKET", INPULSING must not be entered.

DP: If "DP" is entered in the INPULSING field, then neither "D0M" nor "D0P" may be entered in the TRK TYPE field of the corresponding OPRTK form (5417 Record).

For 5E6 and later, when TRKCLS is "PF" and TRK DIR is "INC" or "2W", INPULSING must be "DP", "MF", "TT", "NONE", or "ISUP7". ISUP7 can only be assigned if trunks are a part of a Leased Network with LN TYPE set to a value other than blank or "NONE".

CCIS6 or ISUP7 (non-SIP-T)

For 5E7 and later, CCS trunks with INPULSING and/or OUTPUTSING equal to "CCIS6" or "ISUP7" require the DEN or TEN fields, or for ISUP7 only (5E9(2) and later), the NEN field entered on the corresponding TRUNK form.

For 5E7 and later, if the CCS Trunk Groups (INPULSING/OUTPUTSING is "CCIS6" or "ISUP7") have the VPA RATE set to 12, 50, or 100, then all the corresponding trunks assigned on the TRUNK form must be physically located on a Switching Module equipped with a local DSU2 (Digital Service Unit 2) or DSC3 (Digital Service Circuit 3) Tone Transceiver. The TRUNK TEN, DEN, or NEN value must have the SM value defined on an EQDS2P form (5740 Record) with at least one DSC TYPE list entry equal to "LDSU2TX", or on at least one EQDSC3 form (5852 Record) with a non-zero value entered in the TONE XCVRS field.

For 5E9(1) and later, if the CCS Trunk Groups defined on the TKGRP form with either or both of the INPULSING/OUTPUTSING fields equal to "CCIS6", and they share the same FEND CLLI value; then all of the Trunk Group Members defined on the TRUNK form for these same TGN values must have their CLCI TRK ID entered and the value must be unique in the range 0 - 9999.

For 5E9(2) and later, if "CCIS6" is entered, the trunk group members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports CCIS6 signaling. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E15 and later, when INPULSING/OUTPUTSING fields show CCS signaling CQ/BQ ALW, XLT TEST, VPA RATE, and VPA TYPE fields must all be set to known values.

For 5E16(2) and later, when INPUTSING or OUTPUTSING is set to "ISUP7", LOCAL SM and ORIG PT CODE is entered, and no matching OPC or ALIAS PC can be found on the CCGSM form (6008 Record), then one of the following conditions must exist:

OPC from the OFCOPT form (5509 Record) where the COMMON CHAN SIG is set to "ALL" or "CNI" must match ORIG PT CODE from the TKGRP form (5202 Record) or,

ALIAS POINT CODE from the ALIASPC form must match the ORIG PT CODE.

MF:

If TRKCLS is "RMSD3" or "TOPAS", this field must be "MF".

PP:

For 5E10 and later, if "PP" is entered, a TRKCLS of "PKTPIPE" or "PPMEM" must be entered.

RP:

Restrictions for RP trunks are as follows:

- Trunk Group must be One-Way.
- Trunks must be digital.
- When designated "RPEO" address signal, Outgoing Trunk Groups must terminate to an End Office and Incoming Trunk Groups must originate from an End Office.
- When designated "RPTO" address signal, Outgoing Trunk Groups must terminate to a Tandem Office and Incoming Trunk Groups must originate from a Tandem Office.
- IN START DIAL must be "IMED" and OUT START DIAL must be null on the TRUNK form.
- TRKCLS must be "LTOLLCON".
- For 5E10 and later, TGNs on the TKGRP form that have INPUTSING and/or OUTPUTSING of "RPEO" or "RPTO", and have TGN/MEMBs on the TRUNK form whose DEN[1,3] values match SM on the EQIM form with UNIT TYPE of SM2000, is not allowed.

TT:

INPUTSING can be Touch Tone ("TT") only if TRKCLS is

"LTOLLCON"
"PF"
"PFITT"
"PFLASH"
"SPAB800"
"SPAM800"
"SPAMEG"
"SPAWATS"
"TTOLLCON"

2.20 OUTPUTSING

Description: Enter the Pulsing Type on Outgoing and Two-Way Trunk Groups.

Valid OUTPUTSING Entries	
Entry	Definition
CCIS6	CCIS6 Signaling.
DCHN	Software Release: 5E3 and later. D-channel signaling for DSLs. This value is used for TRKCLSs of "EDSL", "EDSLHM", "IFOPER", and "IFTERM", only under certain conditions. See Figures 1 and 2 for acceptable entry details.
DCS	Software Release: 5E9(1) and later. Autoplex Digital Cellular Switch.
DP	Dial Pulse.
ISUP7	ISDN CCITT7 Signaling.
MF	Multifrequency.
NONE	No outpulsing. This value can only be used if TRK DIR is "OUT" and TRKCLS is "LTOLLCON" or "TTOLLCON".
PP	Software Release: 5E10 and later. Packet Pipe signaling for CDMA (Code Division Multiple Access). For more information on CDMA, see Division 2, Section 8B.
RPEO	Revertive Pulsing End Office.
RPTO	Revertive Pulsing Tandem Office.
TT	Touch Tone. This value can only be used if TRKCLS is "PBXDID".

Data Rules:

If TRKCLS is "X75", "X75P", or "PACKET", OUTPUTSING must not be entered.

For 5E6 and later, when TRKCLS is "PF" and TRK DIR is "OUT" or "2W", OUTPUTSING must be "DP", "MF", "TT", "NONE", or "ISUP7". ISUP7 can only be assigned if trunks are a part of a Leased Network with LN TYPE set to a value other than blank or "NONE".

TRKCLS of PF and PFLASH can use an OUTPUTSING value of "TT" or "DP" when CUT THRU is "Y".

CCIS6 or ISUP7:

For 5E7 and later, CCS trunks with INPUTSING and/or OUTPUTSING equal to "CCIS6" or "ISUP7" require the DEN or TEN fields or for ISUP7 only (5E9(2) and later), the NEN field entered on the corresponding TRUNK form.

For 5E6 and later, if GLARE ACTION is "ODDEVEN", then OUTPUTSING must be "ISUP7".

For 5E7 and later, if the CCS Trunk Groups (INPUTSING/OUTPUTSING is "CCIS6" or "ISUP7") have the VPA RATE set to 12, 50 or 100, then all the corresponding trunks assigned on the TRUNK form must be physically located on a Switching Module equipped with a local DSU2 (Digital Service Unit 2) or DSC3 (Digital Service Circuit 3) Tone Transceiver. The TRUNK TEN, DEN, or NEN value must have the SM value defined on an EQDS2P form (5740 Record) with at least one DSC TYPE list entry equal to "LDSU2TX", or on at least one EQDSC3 form (5852 Record) with a non-zero value entered in the TONE XCVRS field.

For 5E9(1) and later, if the CCS Trunk Groups defined on the TKGRP form with either or both of the INPUTSING/OUTPUTSING fields equal to "CCIS6", and they share the same FEND CLLI value; then all of the Trunk Group Members defined on the TRUNK form for these same TGN values must have their CLCI TRK ID entered and must be unique in the range 0 - 9999.

For 5E9(2) and later if "CCIS6" is entered, the trunk group members must be assigned to an SM on an EQIM form with a CONFIGURATION which supports CCIS6 signaling. For the CONFIGURATION that supports this TRKCLS value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E11 and later, if "CCIS6" is entered, LOCAL RSM must not be entered.

For 5E12 and later, when INPUTSING/OUTPUTSING equals "ISUP7" showing CCS7 signaling, thus both the DEST PT CODE and ORIG PT CODE entries must be entered.

PP:

For 5E10 and later, if "PP" is entered, a TRKCLS of "PKTPIPE" or "PPMEM" must be entered.

RP:

Restrictions for RP trunks are as follows:

- Trunk Group must be One-Way.
- Trunks must be digital.
- When designated "RPEO" address signal, Outgoing Trunk Groups must terminate to an End Office and Incoming Trunk Groups must originate from an End Office.
- When designated "RPTO" address signal, Outgoing Trunk Groups must terminate to a Tandem Office and Incoming Trunk Groups must originate from a Tandem Office.
- IN START DIAL must be null and OUT START DIAL must be "IMED" on the TRUNK form.
- TRKCLS must be "LTOLLCON".
- For 5E10 and later, TGNs on the TKGRP form that have INPUTSING and/or OUTPUTSING of "RPEO" or "RPTO", and have TGN/MEMBs on the TRUNK form whose DEN[1,3] values match SM on the EQIM form with UNIT TYPE of SM2000, is not allowed.

TT:

For 5E10 and later, OUTPUTSING may be "TT" only if TRKCLS is:

"IDCS"
"LTOLLCON"
"PBXDID"
"PF"
"PFCPE"
"PFITT"
"PFLASH"
"TTOLLCON"

2.21 # SATELLITE

Description: Does this Trunk Group use Satellite facilities?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If TRKCLS is "RMSD3" or "TOPAS", then this field must be "N".

2.22 # HOLD BUSY

Description: For certain Outgoing Secondary Intertoll Trunks, the trunk is "held busy" until an on-hook is received from the terminating trunk. Is this condition required? (This feature applies to Toll applications only.)

Required Field.

Default: N

Valid Entries: Y, N

2.23 FAR END NPA

Description: Specify the terminating NPA for Outgoing and Two-Way Trunk Groups. This field is required for the Network Management Trunk Group Control Feature.

Valid Entries: 200 - 999

Data Rules:

If this is an Originating Screening Office for INWATS, i.e., ORIG SCREEN OFF equals "Y" on the OFCOPT form, then FAR END NPA must also be specified for Incoming Trunk Groups for the following set of conditions:

- ORIG SCREEN OFF or SERV SWITCH PT? on the OFCOPT form (5509 Record) is set to "Y"
- TRK DIR is set to "INC"
- and TRKCLS is *NOT* one of the following:

"ACJCK",

"BUSYVFY"

"DIOR"

"INAISTRK"

"LTOLLCON"

"RMSD3"

"TOPAS"

"TSTK"

For an SSP (Service Switching Point) office (SERV SWITCH PT equals "Y" on the OFCOPT form) and/or an OSPA office, the FAR END NPA must be specified for Incoming and Two-Way SSP trunk groups (including those with a TRKCLS of "FIOPR"). In addition, for 5E5 and later, the FAR END NPA must be entered when SERV SWITCH PT on the OFCOPT form is "Y", TRK DIR on this form is "INC", and TRKCLS is not "DIOR", "TOPAS", nor "RMSD3", nor, for 5E7 and later, "INAISTRK".

NOTE: A single 5ESS Switch may not provide both OSO (Originating Screening Office) and SSP (Service Switching Point) services at the same time.

If TRKCLS is "ANNCMNT", "RMSD3" or "TOPAS", this field must not be entered.

If TRKCLS is "DIOR", this field must be equal to the NM DEFAULT NPA on the OFCOPT form (5509 Record).

For 5E9(1) and later, if TRK DIR is "2W" and TRKCLS is not "CST1", "CST2", "DSC", "IDCS", or "IVTRK", then SCR and FAR END NPA must be entered.

When TRK DIR is "2W" and HUNT TYPE is not "PSUCD", FAR END NPA must be entered.

For 5E10 and later, FAR END NPA must be entered for all outgoing trunks if TRKCLS is NOT "PKTPIPE" or "PPMEM".

2.24 LOCAL SM

Description: If the Trunk Group defined on this form is "local" within a Switching Module, that is, all its members are assigned equipment numbers (TENs or DENs) in the same SM, then enter the 3-digit SM number in this field. The SM may be a remote module, e.g., an RSM or ORM; or it may be an SM in the host office. This feature allows more efficient call processing of local Trunk Groups.

This feature allows more efficient call processing of local trunk groups.

This field can also be used to provide additional alternate routes in a route list.

Software Release: 5E5 and later

Valid Entries: 1 - 192

Data Rules:

When the LOCAL SM is entered, it must be defined on an EQIM form.

If the Trunk Group is "global", that is, its members have equipment numbers in different SMs, then leave this field blank.

It must also be blank for CCS trunk groups (INPULSING or OUTPULSING is "CCIS6" or "ISUP7"), Logical Test Port trunks (TRKCLS is "LTP"), and Outgoing CAMA operator trunks (TRKCLS is "CAMOPKEY" or "CAMOPTLK").

An SM number must be entered in this field when a value is entered in GL ANN TG.

For 5E7 and later, if this field is entered, all members of the trunk group assigned on the TRUNK form must have their associated SMequipment value (the first three digits of the TEN, DEN, or (for 5E9(2) and later) NEN field) equal to the numeric SM value entered in this field.

For 5E11 and later, when VCDX OFFICE is set to "Y" on the EQCORE form and TRKCLS on the TKGRP form (5202-1/2 Record) is not in the table below, then LOCAL SM on the TKGRP form must be known.

LOCAL SM Entries	
Software Release: 5E11 and later	
Data Condition	Trunk Group Definition
TRKCLS[1,3] = "LTP"	Local Test Port Trunk
TRKCLS = "EDS" and RDTA GRP = "Y"	Extended Digital Subscriber RDTA Trunk TRKCLS = "INAISTRK"
TRKCLS = "RMSD3"	TAT connected to RSM-D3 Trunk
TRKCLS = "TOPAS"	Test Access Trunk - TOPAS Interface

2.25 GL ANN TG

Description: When the Trunk Group defined on this form is a local announcement group (TRKCLS is "ANNCMNT" and LOCAL SM is entered), then the number of a global announcement trunk group must be entered in this field. The local announcements will be used in place of the global announcements.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The GL ANN TG must be different than the TGN defined on this form. It must be an announcement trunk group defined on another TKGRP form with TRK DIR equal to "ANN" and with LOCAL SM and GL ANN TG left blank.

No route index is allowed to point to the local announcement trunk group. The route index must reference the global announcement trunk group entered in the GL ANN TG field. Calls originated in the SM (or RSM Site) and destined for the global announcement group will terminate to the local group and use the SM's (RSM Site's) version of the announcement.

No more than one local trunk group may be defined with the same GL ANN TG in any given SM or Remote Site. Although a specific GL ANN TG value can be assigned on more than one TKGRP form, the combined LOCAL SM and GL ANN TG fields must be unique on each form. Further, the LOCAL SM must be defined on an EQIM form; when a REMOTE SITE is specified on that form, the combined SM and REMOTE SITE must be unique.

For engineering considerations concerning local announcement trunk groups, see the RSM Stand-Alone Call Processing feature section in Division 2, Section 1C, of this guide. Also see the Multimodule RSM Stand-Alone Call Processing and Billing section in Division 2, Section 1J, for a discussion of local trunk groups at an MMRS site.

For 5E11 and later, GL ANN TG may be entered only when the LOCAL RSM is entered.

2.26 BRCS

Description: Will BRCS features be assigned to this Trunk Group?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, a Feature Assignment Trunk Group form, TKGRPFA (5206 Record), must be completed for this Trunk Group.

If TRKCLS is "EDSL", "EDSLHM", "IFOPER", "IFTERM", "RMSD3" or "TOPAS", then this field must be "N". If TRK DIR is "ANN" or "LTP", this field must be "N". For CCS trunks, this field must be "N".

For 5E6 and later, BRCS must equal "N" when INPULSING or OUTPULSING is "ISUP7", LN TYPE is "N" and TRKCLS is not "LTOLLCON".

For 5E6 and later, if this trunk group is dedicated to ASP (Advanced Services Platform) via the default ASP DAS by having DAS equal to PVN DAS on the OFCOPT form (5509 Record), then BRCS must be "N" here

and on the corresponding TRUNK form.. If the trunk is dedicated to ASP via a virtual ASP DAS by having a DAS whose functionality is similar to PVN DAS on the OFCOPT form, then BRCS should be "N". See the ASP DIALING PLAN section in the ASP feature description, Division 2, Sections 4A51 and 4A126, for further details on the dangers of assigning BRCS features to trunks dedicated to ASP services.

2.27 TOPAS TP NBR

Description: This field is the TOPAS (Testing, Operations, Positioning and Administration) Operations System TP (Test Position) Number. The field is used by Recent Change only and cannot be accessed by ODA.

2.28 RAX

Description: This field is used for routing and charging trunk calls.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.29 CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

PACKET NETWORK TRUNKING

2.30 PKT GRP

Description: The PKT GRP field is used to specify the Packet Group Number. This field was added to support the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. For more information, see Division 2, Section 7BX. This field also supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information on this feature, see Division 2, Section 4A684.

Software Release: 5E16(2) and later

Valid Entries: Blank, or 7000 - 7999

Data Rules:

For 5E16(2) and later, when PKT GRP is entered:

TRKCLS must be "LTOLLCON" or "TTOLLCON", "LATA", or "IC". (Prior to 5E16(2) "LTOLLCON" and "TTOLLCON" were the only TRKCLS values allowed for this case).

TRK DIR must be "2W"

INPULSING must be "ISUP7"

OUTPULSING must be "ISUP7"

GLARE ACTION must be "ODDEVEN"

HUNT TYPE must be "2WB" or "2WF"

DAS must be entered

SCR must be entered

LOCAL SM must not be entered

VPA TYPE must be "NOVPA" or must not be entered

VPA RATE must be 0 or must not be entered

E9111 TYPE must be "NONDED"

TRIG NBR must not be entered

ASP ORIG must be "N"

UNRES EA must be "N"

LN TYPE must be "NONE" or must not be entered

AUD RNG must be "N"

LS DLY ANS must be "N"

MAKE BUSY KEY must not be entered

PRIVACY must be "N"

BRCS must be "N"

XLT TEST must be "N"

RERTE Q INH must be "N"

QUEUE ALLOWED must be "N"

DCS' TRK must be "N" (not true for 5E20(1) and later)

AML PERCENT must not be entered

IAPT must be "Y"

WB RATE must not be entered

SS7 ISUP OPER must be "N"

PBX/CPE ID must not be entered

DSN ARC ID must be 0 or must not be entered

SHUTTLE must be "N"

BUSY LAMP must not be entered

BW LAMP must be "N"

WARN THRESH must not be entered

FAR END LATA must be 0 or must not be entered

COIN must be "N" or must not be entered

TERA RCVY must be "NOA"

INTER SM TRK must be "N"

OUTAGE RPT must be "N"

TRK ICI must not be entered

SPEECH TRMTS must be "N"

ISAT MLHG must not be entered

RCD 3PT1 ITC must not be entered

AML ALARM must be "MAJOR"

SATELLITE must be "N"

ATTN must not be entered

CQ/BQ ALW must be "N"

For 5E16(2) and later, when PKT GRP is not entered, DIFF SERV must not be entered.

For 5E16(2) FR 3 and later, when PKT GRP is entered, BICC GRP and SIPT GRP must not both be "Y".

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When PKT GRP is entered and SIPT GRP is "N", or TRKCLS is "LTOLLCON", then

PREF NPA must not be entered.

VPN ACCESS must be "N".

ANI PROCESS must be "N".

MINT SIG TYPE must not be entered.

NETWORK IND must not be entered.

LDP must be "N".

TERM BILL must be "N".

ASP TOLL must be "N".

CARRIER TRIG must be "N"

ACCT PROMPT must be "GLOBAL".

API CODE must not be entered.

CT FOR DT must be "N".

CUT THRU TRIG must not be entered.

SEND LD CIC must be "N".

MBG TRANSPORT must be "N".

MAI must be "S".

REL LINK INIT must be "N".

RTCD REQ must be "N".

MBG ID must not be entered.

NI IW REL must be "N".

NI ANNC must be "N".

CPN RSTRCT must be "N".

CHG RSTRCT must be "N".

UUI IC RSTRCT must be "N".

ATP IC RSTRCT must be "N".

CFN RSTRCT must be "N".

When PKT GRP is entered and either SIPT GRP is "Y" or TRKCLS is "TTOLLCON", then

PREF NPA must not be entered.

VPN ACCESS must be "N".

ANI PROCESS must be "N".

TERM BILL must be "N".

MINT SIG TYPE must not be "GAMMA".

CUT THRU TRIG must not be entered.

MBG TRANSPORT must be "N".

MAI must be "S".

MBG ID must not be entered.

NI IW REL must be "N".

NI ANNC must be "N".

CPN RSTRCT must be "N".

CHG RSTRCT must be "N".

UUI IC RSTRCT must be "N".

ATP IC RSTRCT must be "N".

When PKT GRP is entered, SIPT GRP is "Y", and TRKCLS is "LATA", then

MINT SIG TYPE must not be entered.

ASP TOLL must be "N".

SEND LD CIC must be "N".

NI IW REL must be "N".

NI ANNC must be "N".

CFN RSTRCT must be "N".

When PKT GRP is entered, SIPT GRP is "Y", and TRKCLS is "IC", then

PREF NPA must not be entered.

VPN ACCESS must be "N".

ANI PROCESS must be "N".

MINT SIG TYPE must not be entered.

ASP TOLL must be "N".

CARRIER TRIG must be "N".

CUT THRU TRIG must not be entered.

SEND LD CIC must be "N".

MBG TRANSPORT must be "N".

REL LINK INIT must be "N".

MBG ID must not be entered.

CPN RSTRCT must be "N".

CHG RSTRCT must be "N".

When PKT GRP is entered and SIPT GRP is "Y", TRKCLS must be set to "LTOLLCON", "TTOLLCON",

"LATA", or "IC".

When PKT GRP is not entered, INTGI must be 0 or must not be entered.

When PKT GRP is entered and BICC GRP is "Y", INTGI must be 0 or must not be entered.

When PKT GRP is entered, then INTGI and PKT GRP on the INTGI form (5894 Record) must match INTGI and PKT GRP on the TKGRP form.

When PKT GRP is entered, then INTGI and PKT GRP on the INTGI form (5894 Record) must exist at least one tuple on the INTGI form where INTGI and PKT GRP matches INTGI and PKT GRP on the TKGRP form.

When PKT GRP is entered, then INTGI must be unique for that PKT GRP.

For 5E20(1) and later:

When PKT GRP is entered and BICC GRP is "Y", DCS TRK must be "N".

When PKT GRP is entered and SIPT GRP is "Y" on this form, and BNID on the BEARER NET form (5935 Record) (corresponding to PKT GRP on the TKGRP form) is "NPH", DCS TRK on the TKGRP form must be set to "Y".

When PKT GRP is entered and SIPT GRP is "Y" on this form, and BNID on the BEARER NET form (5935 Record) (corresponding to PKT GRP on the TKGRP form) is "OIU", DCS TRK on the TKGRP form must be set to "N".

2.31 BICC GRP

Description: As of the 5E16(2) release, the BICC GRP field is replaced with the PKT GRP field on this form (see the PKT GRP field for usage information). The BICC GRP field is used to specify the bearer path for packet switched calls. This field was added to support the ATM Global Routing and Signaling feature (99-5E-7554). This feature is made available in 5E15 Feature Release 1. For more information, see Division 2, Section 4A257.

Software Release: 5E15 and later

Valid Entries: Blank, Y, N

Data Rules:

When BICC GRP is not entered:

If INPULSING or OUTPULSING is "ISUP7", then VPA TYPE must be entered with a value other than "NOVPA".

If INPULSING and OUTPULSING are not "ISUP7", then VPA TYPE must not be entered or must equal "NOVPA".

If INPULSING or OUTPULSING equals "ISUP7", TRUNK QUERY, XLT TEST, VPA RATE, and VPA TYPE fields must all be entered.

When BICC GRP is entered:

TRKCLS must be "LTOLLCON" or "TTOLLCON".

TRK DIR must be "2W".

INPUTSING must be "ISUP7".

OUTPUTSING must be "ISUP7".

GLARE ACTION must be "ODDEVEN".

HUNT TYPE must be "2WB", or "2WF".

DAS must be entered.

SCR must be entered.

LOCAL SM must not be entered.

VPA TYPE must be "NOVPA" or must not be entered.

BICC GRP can only be entered when the ACT field for SFID 567 or SFID 684 on the SFSYS form (5713-1 Record) is set to "Y".

Each BICC GRP entered has to be defined as a valid TGN.

When BICC GRP is entered, trunk members are not allowed on the TRUNK form in the MEMB field for this TGN.

The number of BICC GRP entered must not exceed the maximum number of BICC GRP for an office (256).

When TGN and BICC GRP are equal, the DEST PT CODE and the ORIG PT CODE pair must be unique between all BICC Groups.

For a given BICC GRP, the BICC Group and the Service Group forms must all have the same values of HUNT TYPE, FEND CLLI, NEND CLLI, DEST PT CODE, and ORIG PT CODE.

For 5E16(2) FR 3 and later, when BICC GRP is "Y" (DEST PT CODE and ORIG PT CODE entered), and SIPT GRP is "N" (DEST PT CODE and ORIG PT CODE entered) for a given TGN, the PKTGRP form (5219 Record) must be defined as a BICC Packet Group.

When BICC GRP is "Y", SIPT GRP must be "N" and SIPT GRP is "Y", BICC GRP must be "N".

2.32 SIPT GRP

Description: This field specifies whether or not the packet group (PKT GRP) defined on the PKTGRP form (5219 Record) is a SIP Packet Group. This field supports the SIP for Packet Trunking feature. For more information see Division 2, Section 4A684.

Software Release: 5E16(2) FR 3 and later

Valid Entries: Blank, Y, N

Data Rules:

When SIPT GRP is "Y", HUNT TYPE must be "2WF", and DEST PT CODE and ORIG PT CODE must not be entered.

2.33 DIFF SERV

Description: This field specifies the Diff Serv Code Point. The DIFF SERV field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (See Division 2, Section 7BX.)

Software Release: 5E16(2)

Valid Entries: Blank, or enter hexadecimal number 0 - 3f

When PKT GRP is not entered, DIFF SERV must not be entered.

2.34 INTGI

Description: This field specifies the value associated with Inter-Nodal Traffic Group Identifier. This field supports the SIP (Session Initiation Protocol) Enhancements to PSTN (Public Switched Telephone Network) Gateway feature. For more information see, Division 2, Section 5R.

Software Release: 5E16(2) FR 6 and later

Valid Entries: Blank or 0

3. FORM ENTRIES - 5202-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

3.2 * TGN

Description: Enter the number of the Trunk Group being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

3.3 TRUNK CHAR

Description: Enter the Common Language Circuit Identifier which represents the Trunk Group characteristics. Valid entries are any alphanumeric characters or dashes to define the trunk type, pulsing type and direction, etc.

Software Release: 5E3 and later

Valid Entries:

TRUNK CHAR Format	
Character Positions	Location
1, 2	Traffic Class
3, 4	Office Class
5, 6	Traffic Use
7 - 13	Trunk Type Modifier
14, 15	Pulsing Type and Direction

3.4 FEND CLLI

Description: Enter the Far-end Common Language identifier for the trunk group.

The RNMC (Remote Network Management Center) automatically queries the 5ESS Switch for the FEND CLLI and uses this field to determine trunk group far-end locations in order to perform Network Traffic Management Activities. Therefore, it is important that this field be populated accurately for all trunk groups.

The format for Far End CLLI is as follows PPPSSBBEEE, where PPPP is place, SS is state, BB is the building, and EEE is the entity.

Example: CHCGILMOCG0.

FEND CLLI Format		
Character Positions	Location	Example
1 - 4	Place	CHCG (Chicago)
5, 6	State	IL (Illinois)
7, 8	Building	MO (Monroe)
9 - 11	Entity	CG0 (Control Group 0)

Software Release: 5E3 and later

Valid Entries: 11 alphanumeric characters

Data Rules:

An entry must be made if XLT TEST is set to "Y". A valid entry must be made for all CCIS6 trunk groups.

For more detailed information on Common Language Location Identifiers, see Practice 795-100-100.

3.5 PBX/CPE ID

Description: This field contains the numerical identifier for a PBX or class II CPE located at the far end of a trunk group. For each trunk group connected to the same PBX or class II, the PBX/CPE ID must be the same. The PBX/CPE ID and trunk group number should be entered on the PBXID form (5213 Record). This form contains a list of PBX/CPE IDs already assigned, the trunk group they have been assigned to and an indication whether or not CPNs are to be screened for PRIs.

Valid Entries: 1 - 4095

Data Rules:

When CPN SCRIN is "Y", then PBX ID must be entered.

PBX ID may also be entered if the far end is connected to some other type of CPE (Customer Premise Equipment) instead of a PBX. As with a PBX, the PBX ID must be entered when the CPE is to transmit a CPN that will be screened.

3.6 REMARKS

Description: These columns may contain any remarks deemed locally necessary.

Valid Entries: 1 - 16 characters

OPERATOR TRUNKS

These fields (Section 3.7 - Section 3.13) define the features assigned to Operator Trunks and are only

required for the following Operator Type Trunk Classes: "AIS", "CAMA", "RECCMPL", "SERVICE", and "TSPS".

3.7 OUTPL REQ

Description: Is outpulsing required?

Valid Entries: Y, N

Data Rules:

Outpulsing is not required on a Recording-Completing Operator Trunk Group or Service Circuits.

An entry is permitted only for operator trunks.

3.8 AUDIBLE

Description: Should audible ring be returned to the calling party on an operator connection? Audible ring is normally required on a Recording-Completing Trunk Group, or a Service Trunk if the Service Trunk terminates at a Switchboard.

Valid Entries: Y, N

Data Rules:

An entry is permitted only for operator trunks.

If the TRK DIR is "RAF", this entry must be blank or "N".

3.9 SIGNAL

Description: This field defines the type of Operator Signaling.

Valid SIGNAL Entries	
Entry	Definition
WINKONLY	Provide ringback signal on non-Coin Operator Trunks.
INBAND	Provide coin control and ringback signals on Coin Operator Trunks.
EXINBND	Expanded Inband; provide operator released and operator attached signals in addition to coin control and ringback signals on Coin Operator Trunks.

Data Rules:

If TRKCLS is "AIS", "CAMA" or "SERVICE", then this field must be blank.

If TRK DIR is "RAF", SIGNAL must be blank.

3.10 FREE TERM

Description: Are calls over this trunk free, i.e. no billing? Free Terminating service on an Operator Trunk Group is determined by an entry of "Y" or "N". An entry is permitted only for Outgoing Trunk Groups which have coin origination and terminate at an operator. A "Y" in this field, for coin originated traffic, will initiate coin return. For shared trunk groups where traffic is both coin and non-coin, and a billing record is desired for the non-coin traffic, this entry should be "N". Coins in this case are returned by defining a code index for free coin calls on the RAR form (5301 Record).

Valid Entries: Y, N

Data Rules:

If the TRK DIR is "RAF", this entry must be blank or "N". If TSPS TYPE is "DACHARG", then this field must be "N".

3.11 COINRTN INT

Description: Will Initial Coins be returned?

Valid Entries: Y, N

Data Rules:

An entry is required for Recording Completing and TSPS trunks and prohibited for all other trunk types.

If TRK DIR is "RAF", this entry must be blank or "N".

3.12 COINRTN FNL

Description: Will Final Coins be returned?

Valid Entries: Y, N

Data Rules:

An entry is required for Recording Completing and TSPS trunks and prohibited for all other trunk types.

If the TRK DIR is "RAF", this entry must be blank or "N".

3.13 TSPS TYPE

Description: This field defines the type of traffic being carried over the TSPS Trunk Group.

Valid TSPS TYPE Entries	
Entry	Definition
COMBINED	Combines all Call Types (0+, 1+, 0-) but having separate Trunk Groups for Coin and Non-Coin Traffic. 0+, 0-: Coin only to TSPS; 0+, 0-, 1+: Non-Coin only to TSPS.
SUPERCOMB	Combines all Call Types (0+, 1+, 0-) in a single Trunk Group. For both Coin and Non-Coin Traffic.
DACHARG	Directory Assistance Charging.

Data Rules:

If TRK DIR is "RAF", this field must be blank.

ANNC TRUNKS

These fields (Section 3.14 - Section 3.21) define the features assigned to Announcement Trunks.

3.14 CYCLES

Description: This field defines the number of times an announcement is to be given.

An entry is required for announcement trunks.

Valid Entries: 0 - 7

Data Rules:

If CYCLES is 0, then the BARGE IN field must not be "Y".

If TRK DIR is "RAF", this field must be blank. If TRKCLS is not "ANNCMNT", this field must not be entered.

For 5E6 and later, if "MUSIC" is entered in the CMD CD field on a corresponding CTECT form (5460 Record), then CYCLES must equal 0, and BARGE IN must equal "Y". The RTIDX form equals the TGN on this form. If "DISC", "ANNOUNC" or "PROMPT" is entered in the CMD CD field on the corresponding CTECT form, then CYCLES cannot equal 0. CYCLES is "1" for "PROMPT". See Division 2, Section 3B for translation information on Call Vectoring.

MUSIC RI on the STINFO form (5402 Record) corresponds to ROUTE INDEX on the RTIDX form, where TRUNK GROUP NUMBER on RTIDX form corresponds to the TGN on this form.

3.15 BARGE IN

Description: Will the announcement barge in? When an announcement barges in, the originating party begins hearing the announcement immediately. When BARGE IN is "N", and AUD RNG is set to "Y", audible ring is given until the beginning of the message cycle is received. If "N" is entered in AUD RING, then silence is heard until the beginning of the message cycle.

Valid Entries: Y, N

Data Rules:

An entry is required for announcement trunks. If TRKCLS is not "ANNCMNT", this entry must not be entered.

If the TRK DIR is "RAF", this entry must be blank or "N".

If this field is "Y", then "N" must be entered in the AUD RNG field.

For 5E6 and later, if "MUSIC" is entered in the CMD CD field on a corresponding CTECT form (5460 Record), then CYCLES must equal 0, and BARGE IN must equal "Y". See Division 2, Section 3B for translation information on Call Vectoring.

3.16 AUD RNG

Description: Should audible ring be given to the originating party when waiting for the beginning of the message cycle on a non-barge-in announcement? An entry is required for announcement trunks.

Software Release: 5E4(2) and later

Valid Entries: Y, N

Data Rules:

If an "N" is entered in the BARGE IN field, then "Y" (Yes) is normally entered in this field except when the announcement is used for Local Coin Overtime Prompt.

If TRK DIR is "RAF", AUD RING must be either "N" or not entered. If TRKCLS is not "ANNCMNT", AUD RING must not be entered.

15A Announcement trunks are allowed to have AUD RNG set to "N".

3.17 SVC GRP

Description: This field indicates the type of RAF announcement the trunk is routing. It only applies to trunks terminating at a DSU2-RAF.

Software Release: 5E5 and later
 Required Field.
 Default: NOANNC
 Valid Entries:

Valid SVC GRP Entries	
Entry	Definition
ACCS	OSPS Automated Calling Card Service.
ACSR	Automatic Customer Station Rearrangement.
ASP	Software Release: 5E8 and later. Advanced Services Platform.
COIN	OSPS Automatic Coin Service.
DA	OSPS Directory Assistance.
NOANNC	No Announcement assigned to the Trunk Group.
RAS	Remote Access Service.

Data Rules:

If the TRKCLS is "RAFDTA", "RAFANNC", or "RAFCTR", a corresponding SVC GRP must be entered. Also, the associated ROUTE INDEX (defined on the RTIDX form) must be assigned a specific FIXED ROUTE TYPE defined on an associated FIXRT form (5301 Record). The dependencies are:

TRKCLS	SVC GRP	FIXED ROUTE TYPE	QUEUE ALLOWED
RAFDTA	ACCS	ROACCS	Y
	RAS	2LEVEL	N
	ACSR	RAS or ACSR	N
	RAS	(See Data Rules)	N
	ASP	NSANNC (5E9(2) and earlier)	N
	RAS	ACSR	N
	RAS	SLE	N
RAFANNC	DA	OSPSDA	N
	DA	OSPSEIS	N
RAFCTR	COIN	ROCOIN	N

- **NOTE:** The SVC GRP of "RAS" must be entered when the trunk group is supporting:

- LASS SLE (Screen List Editing) announcements.
- RACF (Remote Activation to Call Forwarding) announcements.
- Any combination of RACF, LASS and ACSR announcements.

When the trunk group is supporting RAS announcements (and its combinations), the associated route index, defined on the RTIDX form (5303 Record), must be assigned to the ANNC RTI on the RASRTI form (5538 Record).

If TRKCLS is not "RAFDTA", "RAFANNC", or "RAFCTR", then SVC GRP must be "NOANNC".

3.18 MAXCALLS

Description: Enter the maximum number of calls allowed to concurrently connect to this music or announcement port at the same time.

- **NOTE:** When a blank is entered for an announcement trunk, call processing will allow 32 concurrent connections to the trunk.

Software Release: 5E6 and later

Valid Entries: 0 - 60

Data Rules:

If TRKCLS is not "ANNCMNT", then MAXCALLS must be blank.

3.19 RETRY

Description: Should the switch software retry when it fails to connect to an announcement port?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If TRKCLS is not "ANNCMNT", then RETRY must be "N".

3.20 CASCADING

Description: Does the trunk group use the 15A Cascading Announcement secured feature? For trunk groups connected to the cascading announcement circuits, the calls are routed to the announcement that plays next, thereby minimizing the delay between the camp-on to the announcement trunk and the actual connection to the announcement. This field supports the 15A Announcement secured feature. For more information on this feature, see Division 2, Section 4A118.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y,N

Data Rules:

15A Announcement is a secured feature and must be purchased by the Office before the 15A Announcement data can be assigned. Therefore, "Y" cannot be entered until the ACT field for SFID 118 on the SFSYS form has been set to "Y".

If "Y" is entered, then:

BARGE IN must be "N"

CYCLES must be 1

MAXCALLS must be 60

TRKCLS must be "ANNCMNT"

If "Y" is entered, all the corresponding TGN/MEMB(s) defined on TRUNK form(s) must have MAXCALLS set to 60 or not entered.

15A Announcement trunks are allowed to have the AUD RNG field on this form set to "N".

3.21 RAF MBRS

Description: This field displays the number of RAF trunk members (as opposed to SAS trunk members) that

are in the announcement trunk group. This field cannot be entered. For more information on the SAS (Service Announcement System) feature, see Division 2, Section 3 J.

Software Release: 5E9(2) and later.

Default: 0

Valid Entries: 0 - 4095

CAMA TRUNKS

These fields (3.22 - 3.23) define Incoming CAMA ONI and ANI Trunk Groups for combined Local/Toll operation.

3.22 ORIG NPA

Description: Enter the Originating NPA (Numbering Plan Area).

Valid Entries: 200 - 999

Data Rules:

An entry is required in this field for an Incoming CAMA Trunk Group.

For 5E7 and later, a value must be entered in this field for a dedicated E911 incoming trunk group (E911 TYPE is "DED", "DIRANI", or "DIRNOANI") if its TRKCLS is "CAMAANI". The ORIG NPA field is used by E911 call processing when the ORIG NPA field is sent to the ESA (E911 Service Adjunct) in the query for the ESN (Emergency Service Number).

3.23 OFFCODE 1-8

Description: Up to eight originating Office Codes (NXX) may be associated with each Incoming CAMA Trunk Group. Enter the first to eighth Office Code in these columns. Office Codes must be entered in sequential order.

Valid Entries: 3 digits, each in the range 0 - 9

Data Rules:

For 5E7 and later, a dedicated E911 incoming trunk group (E911 TYPE is "DED", "DIRANI", or "DIRNOANI") with TRKCLS "CAMAANI" must have one OFFCODE entered; this OFFCODE is not used in E911 call processing.

4. FORM ENTRIES - 5202-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

4.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

MISCELLANEOUS FEATURES

These fields (4.3 - Section 4.20) concern direct connect trunks, originating private trunk billing, and OSPS Listing Services.

4.3 DATA RATE

Description: This field identifies the data rate the trunk group is capable of handling for an interswitch ISDN data call. Data trunks are interoffice digital trunks designated to transmit data to/from ISDN CPE (Customer Premise Equipment). For 5E11 and later, also see special considerations below for the interaction between the DATA RATE and DFI MODE when PRI D-channel trunk members are assigned to both DFIs and DNU-S units.

MF (Multifrequency) trunks can carry either voice or data, but not both. If OUTPULSING or INPULSING is "MF" and a DATA RATE of 56K is assigned, only data can be carried on this trunk group; voice cannot be carried on an MF trunk that has a data rate assigned.

CCS7 and EDSL trunks can carry both voice and data. If OUTPULSING or INPULSING is "ISUP7", or if TRKCLS is "EDSL" and TRK DIR is not "SGNL", then both voice and data can be carried on the same trunk when a data rate is assigned.

Software Release: 5E3 and later

Valid Entries:

Valid DATA RATE Entries	
Entry	Definition
56K	For any trunk able to carry 56 kb/s data calls.
R64K	For any trunk able to carry restricted 64 kb/s data calls.
64K	For any trunk able to carry 64 kb/s data calls.

Valid DATA RATE Entries for PACKET Trunks (5E5 and later)	
Entry	Definition
56K	Provided when a D3/D4 channel bank is used.
64K	Provided when a direct T1 carrier connection between two 5ESS Switches is used.

Data Rules:

When DATA RATE is entered, and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", "TTOLLCON", "IC", or "LATA", then TRK DIR must be "2W", "INC" or "OUT".

DATA RATE must not be entered if TRK DIR is "RAF" or if TRKCLS is "RMSD3" or "TOPAS". It must be entered if TRK DIR is "SGNL".

For 5E5 and later, when TRKCLS is "PACKET") (an IP trunk group), DATA RATE must be "56K" or "64K"; when TRKCLS is "X75P", it must be "56K". For 5E6 and later, when TRKCLS is "X75", DATA RATE must be "56K".

For 5E7 and later, DATA RATE may be entered only if TRKCLS is one of the following:

"CST1"
"CST2"
"DSC"

"EDSL"
 "EDSLHM"
 "IC"
 "IDCS"
 "IFOPER"
 "IFTERM"
 "IVTRK"
 "LATA"
 "LTOLLCON"
 "PRINTOLL"
 "SCINTOLL"
 "TTOLLCON"
 "PACKET"
 "PF"
 "PFITT"
 "PFLASH"
 "X75"
 "X75P"
 "PPMEM" (5E10 and later)

For 5E10 and later, when TGN/MEMBs are defined on the TRUNK form that have a DATA RATE value entered on its associated TKGRP form, and the TRKCLS on the TKGRP form is either

"EDSL"
 "EDSLHM"
 "IFTERM", or
 "IFOPER",

and the DEN field is entered on the TRUNK form, this DATA RATE value must correspond with a DFI MODE entered on the EQDUP form according to the following table:

Corresponding DFI MODES	
DATA RATE	DFI MODE
56K	D4, FEB7, 64K, FE8Z, D464, OR FE64
R64K	D464, FE64, 64K OR FE8Z
64K	FE8Z OR 64K

For 5E10 and later, Packet Pipe Member ("PPMEM") trunk class is valid for the following data rates and dfi modes:

DATA RATE	DFI MODE
56K	D4, FEB7, D464, FE8Z
64K	D464, FE8Z

For 5E11 and later, when PRI D-channel trunk members are assigned to both DFIs and DNU-S units, special consideration must be made to the interaction between the DATA RATE and DFI MODE. When assigning TGN/MEMBs with a TRK DIR of "SGNL" (PRI D-channel trunk assignment), the signaling on this type of trunk is done via HDLC (High Level Data Link Control) encoding. If the trunk is a NEN, the DATA RATE field determines whether the HDLC encoded data is inverted or non-inverted. Valid DATA RATE and HDLC encoding entries for PRI D-channel trunks assigned to a DNU-S are as follows:

I

I

ENTRY	HDLC ENCODING
56K	Inverted
R64K	Inverted
64K	Non-Inverted

Caution must be exercised whenever PRI D-channel trunk members within the same trunk group are assigned to both DNU-S and DFI circuits. The DFI MODE controls the HDLC encoding for PRI D-channel trunks assigned to DFIs. The DATA RATE is only used for DNU-S trunk groups. Whenever mixing trunk members on both DFIs and DNU-S, the following combinations are allowed.

DFI MODE	DATA RATES
D4	56K
FEB7	56K
D464	56K or R64K
FE64	56K or R64K
64K	64K
FE8Z	64K

For 5E13 and later, when DATA RATE is "64K" for a TRKCLS value of "X75" or "X75P" on this form, the ACT field for SFID (Secured Feature ID) 542 on the SFSYS form (5713-1 Record) must be set to "Y". Since the DATA RATE value of "64K" on this form is used by the 64Kbps X.75/X.75 Trunk Group special feature, SFID 542 must be activated before the DATA RATE may be set to "64K" (see Division 2, Section 4A542).

For 5E13 and later, DATA RATE may be entered only if TRKCLS is one of the following:

"A2"
 "BCM"
 "CST1"
 "CST2"
 "DSC"
 "EDSL"
 "EDSLHM"
 "IC"
 "IDCS"
 "IFOPER"
 "IFTERM"
 "IVTRK"
 "LATA"
 "LTOLLCON"
 "OTOTK"
 "PRINTOLL"
 "SCINTOLL"
 "TTOLLCON"
 "PACKET"
 "PF"
 "PFITT"
 "PFLASH"
 "X75"
 "X75P"
 "PPMEM"

4.4 INVERSION

Description: Should this packet pipe use inverted data? The INVERSION field is used to indicate if the packet pipe uses inverted data. This is decided on a trunk group basis and is sent to the PH4 on initialization of packet

pipes.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When TRKCLS is "PKTPIPE", INVERSION must be "Y"

When TRKCLS is "ATMPP", INVERSION must be "N".

When TRKCLS is not "A5", "FRB", "IS41" or "PKTPIPE", INVERSION must be "N".

When TGNs are defined on the TKGRP form with a TRKCLS of "PKTPIPE" and the MEMBs assigned to the TGN on the TRUNK form have 9 or more rows entered on the PSU PIPE MEMBER TRUNKS list on the TRUNK form, the Packet Pipe Enhancements secured feature must be active with the SFID 317 ACT field set to "Y" on the SFSYS form (5713-1).

When the SFID 317 ACT field is set to "Y" on the SFSYS form (5713-1), the Packet Pipe Enhancements secured feature is active:

For PSUGP forms representing PH4s which have exceeded their capacity for CDMA trunk routing, the count of Packet Pipe trunks which use this PH4 may not exceed 32.

When no Trunk Groups have been provisioned with SERV TYPE of "ACELP" or "VSELP", the number of calls the PH4 can handle may not exceed 85.

When one or more Trunk Groups have been provisioned with SERV TYPE of "ACELP" or "VSELP", the number of calls the PH4 can handle may not exceed 90.

The number of possible CDMA calls is dependent upon the presence of Trunk Group SERV TYPEs of "8K", "13K", "ACELP", "DATA", "EVRC", or "VSELP" in the switch, the DATA RATE of the Packet Pipe Member trunks which point to this PH4.

TRUNK forms which are associated with the above PSUGP forms (the first six digits of the TRKOE on the TRUNK form match the SM, PSUSHELF, and CHANNEL GROUP of the PSUGP) specify Packet Pipe Trunks.

4.5 WB RATE

Description: Enter the wideband data rate transmitted by this trunk group for wideband calls. Wideband data rates reflect different multiples of DS0 channels at 64Kb/s each.

Software Release: 5E9(1) and later

Valid Entries:

Valid WB RATE Entries	
Entry	Definition
384K	Trunk group designated to carry 384 kb/s wideband data calls. Uses 6 DS0 channels.
1536K	Trunk group designated to carry 1536 kb/s wideband data calls. Uses 24 DS0 channels.
384/1536K	Trunk group designated to carry 384 kb/s or 1536 kb/s wideband data calls.
MULTIRATE or M	Trunk group designated to carry multirate wideband data calls. Uses 2 to 24 DS0 channels, depending upon the needs of the call.

Data Rules:

Because WB RATE is a secured feature, this field may not be entered unless an SFSYS form (5713-1 Record) exists with SFID 125 set to "Y".

If WB RATE is "MULTIRATE", WB TSA TYPE must be entered.

If WB RATE is entered and OUTPUTSING is "ISUP7", GLARE ACTION must be "ALLCTRL" or "NONECTRL", and WB TSA TYPE must be "FLOAT" or must not be entered.

If WB RATE is entered, the TGN defined on this form can only have, at most, one TGSR and/or one IDP feature assigned to it on the TRUNKFA form, or associated CLUSTER form.

If WB RATE is entered:

- DATA RATE must be "64K",
- DEDICATED SRV, ENQUEUE ACT, LOCAL SM, and QUEUE FEATURE must not be entered,
- HUNT TYPE must be "2WF" or "2WB",
- LN TYPE must be "NONE" or not entered,
- RDTA GRP must be "N" or not entered,
- TRK DIR must be "2W",
- TRKCLS must be "IC", "LTOLLCON", "EDSL", or "TTOLLCON", and
- both INPUTSING and OUTPUTSING must be either "ISUP7" or "DCHN".

When WB RATE is entered for a trunk group, each member defined on the TRUNK form must have a matching EQDUP form (5730 Record) where the FAC 0 DFI MODE or FAC 1 DFI MODE is "FE8Z".

For 5E10 and later, when Wideband trunk members residing in the same trunk group that are within the same wideband trunk block and have a DEN assigned, they must be assigned to the same SM, DLTU, DFI, FAC, and PRI GROUP. Note that only EDSL wideband trunk members can have an associated PRI GROUP. Therefore, the PRI GROUP must not be entered for ISUP7 wideband trunk members.

4.6 WB TSA TYPE

Description: Enter the Wideband Time Slot Assignment Type.

Three types of Wide Band Time Slot Assignments are allowed for wideband capable trunk groups. If the WB RATE field is entered and the WB TSA TYPE field is left blank, a "fixed" time slot assignment is used. The "fixed" time slot assignment scheme is the default.

The WB TSA TYPE field is used in conjunction with the HUNT TYPE field to determine if forward or backward hunting should be accomplished. Wideband capable trunk groups using ISUP7 signaling can only use a wideband hunt type that is fixed (i.e., leave the WB TSA TYPE blank) or "FLOAT". Wideband capable PRI trunks (i.e., TRKCLS of "EDSL" on the TKGRP form), can use all three wideband hunt types.

All channels must be contained within a single facility and a single wideband trunk group.

Software Release: 5E9(1) and later
Valid Entries:

Valid WB TSA TYPE Entries	
Entry	Definition
blank	Fixed wideband time slot assignment. When the WB RATE field is entered and WB TSA TYPE is left blank, calls will start on certain "fixed" time slots (or channels) within a wideband trunk block: slots 1, 7, 13, and 19). With fixed hunting, a call will not skip intermediate trunk members. Therefore, if a wideband call needs 6 DS0 channels to attain the data rate of 384Kbps, and the call setup process selects channel 7, then channels 7, 8, 9, 10, 11, and 12 will be used. Note that fixed hunting only supports calls using 6 DS0 channels (384Kb/s) or 24 DS0 channels (1.536Mb/s).
FLEX or FLE	Flexible wideband time slot assignment. A WB TSA TYPE entry of "FLEX" allows wideband calls to select any trunk member as the first channel used. The time slots chosen can also be selected with gaps in the sequence. Therefore, if a wideband call hunts channel 12, it may also hunt channels 14 and 17.
FLOAT or FLO	Floating wideband time slot assignment A WB TSA TYPE entry of "FLOAT" allows wideband calls to be started on any channel within the wideband trunk block but demands that the trunk channels be selected in a contiguous manner.

Data Rules:

If WB TSA TYPE is entered, WB RATE must be "MULTIRATE".

4.7 DIR CON DN

Description: This field is used for Direct Connect trunks which are Incoming or Two-Way.

This field also has specific considerations for the PRI Call By Call Service Selection For FX/Tie feature for 5E9(1) and later:

- For calls originating on an FX/Tie that terminate to a DPBX via a PRI, this field must be populated with a 1 to 15-digit DN. For these calls, digit analysis is not performed on any called digits. To determine the DPBX's PRI trunk group, digit analysis is instead performed on the digits entered in this field. A route index is then obtained that points to the desired PRI.
- Digits entered in this field could be any digit strings currently defined in the digit analysis tables (LDIT, RDIT, INDIT) that have a route index pointing to the PRI trunk group.
- A 7-digit DN may also be entered. This DN would be defined on a LINE form with an assigned route index that points to the PRI trunk group.
- Digits entered as DIR CON DNs are not outpulsed to the DPBX. The only functionality for these digits is to determine the route index that points to the DPBX's PRI trunk group.

Valid Entries: 1 - 15 digits predetermined for this Trunk Group. DIR CON DNs are typically 1, 3, 7, 8, 10, 11-digit or IDDD DNs.

Data Rules:

The IN START DIAL on the TRUNK form (5204-1 Record) must be "DIRC" for all trunk members of this Trunk Group. It may be used for incoming calls on FX Trunks. If this field has an entry, the Trunk Group being defined must have: INPULSING equal to "NONE"; TRK DIR equal to "2W" or "INC"; and TRKCLS must be "PF", "PFLASH" or "LTOLLCON". The appropriate Trunk Class combined with a START SIGNAL of "DIRC" and a SIGNAL TYPE of "NONE" must be specified on the TIMING form (5520 Record).

For 5E9(1) and later, when DIR CON DN is entered, TRKCLS must be "PF", "PFLASH", "PFITT" or "LTOLLCON".

When DIR CON DN is specified, TRKCLS is not "INAISTRK", FACILITY TYPE is "TIE", and CUT THRU is "N" or blank, INPUTSING must be "NONE", "DP", "MF", or "TT", or not entered.

When DIR CON DN is specified, TRKCLS is not "INAISTRK", and either FACILITY TYPE is not "TIE" or CUT THRU is "Y", INPUTSING must be "NONE" or not entered.

4.8 FACILITY TYPE

Description: Enter the facility type of FX/Tie trunk.

Software Release: 5E9(1) and later

Valid Entries:

Valid FACILITY TYPE Entries	
Entry	Definition
FX or F	Foreign Exchange
TIE or T	Tie trunk group

Data Rules:

If FACILITY TYPE is entered, TRKCLS must be "PF" or "PFLASH".

4.9 FACILITY NBR

Description: Enter the facility number to identify the FX or Tie trunk group.

Software Release: 5E9(1) and later

Valid Entries: 1 - 99999

Data Rules:

If FACILITY NBR is entered, FACILITY TYPE and DIR CON DN must be entered.

If FACILITY NBR is entered, API CODE must not be entered.

4.10 RTE NBR PLAN

Description: Enter the numbering plan type to use for the direct connect DN, if the DIR CON DN field is entered. This field is used to identify the numbering plan as a private numbering plan, as the North American Numbering plan, or as an international numbering plan. This field is used by the public and private switched networks to identify the type of translation to apply to the address digits.

Software Release: 5E9(1) and later

Valid Entries:

Valid RTE NBR PLAN Entries	
Entry	Definition
APN	Action Point Numbering Plan for private numbering plans.
INTL	International Numbering Plan.
NANP	North American Numbering Plan.

Data Rules:

If RTE NBR PLAN is entered, DIR CON DN must be entered.

4.11 BILLING DN

Description: This field associates a Billing Directory Number with an originating private Trunk Group which has a Trunk Class of "LATA", "PF" or "PFLASH".

Valid Entries: 7 digit TN; or

- 10 digit TN (NPAXXXXXXX)
- where NPA is: 200 - 999

Data Rules:

BILLING DN is also used to associate a billing number with an originating CMC (Cellular Mobile Carrier) Trunk Group. An entry is required if both CMC and BILL TRKGRP equal "Y". The Billing DN entered is expected to be 10 digits and a limit of 60 unique billing numbers may be used for CMC.

For 5E3 and later, BILLING DN may be used for Trunk Groups with a Trunk Class of "PFITT". With DSN (Defense Switched Network) offices (DSN OPTION field set to "Y" on the OFCOPT form), a Billing DN may be associated with Trunk Groups with a Trunk Class of "LTOLLCON", "PRINTOLL" or "TTOLLCON".

For 5E4(2) and later, BILLING DN may be entered only if TRKCLS is "LTOLLCON", "PF", "PFITT", "PFLASH", "PRINTOLL", "EDSL", "EDSLHM", "TTOLLCON", "LTPCLBCK", "LTPROTL", or "LTPDFTAC". For 5E5 and later, BILLING DN may also be entered when TRKCLS is "LATA". For 5E8 and later, BILLING DN may also be entered when TRKCLS is "PBXDID".

For 5E4(2) and later, BILLING DN must be entered for Trunk Groups with a TRKCLS of "EDSL" or "EDSLHM" and a TRK DIR of "INC" or "2W".

For 5E7 and later, a BILLING DN should be entered for CAMA PSAP trunk groups (CAMA PSAP is "Y"); otherwise, calls routed from this trunk group through an IDP will not be billed properly.

For 5E11 and later:

When BILLING DN is entered, TRKCLS must be "CAMAANI", "CAMAONI", "EDSL", "EDSLHM", "IC", "LATA", "LTOLLCON", "LTPCLBCK", "LTPDFTAC", "LTPROTL", "PBXDID", "PF", "PFITT", "PFLASH", "PRINTOLL", "TOLLCON", "X75", "X75P" of "INC", or "2W".

4.12 LS DLY ANS

Description: Should answer supervision be relayed to the originating office? This field is used by OSPA Listing Services. If it is set to "Y", answer supervision is relayed upon receipt of a billing indicator from an external vendor system. If it is set to "N", answer supervision is relayed upon operator position seizure.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

4.13 MLT ISLC OPT

Description: Is the enhanced signal provided on the "No Test" trunk for non-integrated Mechanized Loop Test System? If "N" is entered the basic signal is provided. This field supports the Improved DLC Status Indications to MLT feature. The enhanced signal provides two new combinations of ring ground/tone signal in

order to provide and identify the status of "DN is ISLC (Integrated Subscriber Loop Carrier) with Carrier Alarm" and "DN is ISLC Test Pair is Busy" on top of the basic "DN is on Intercept" status. This field supports the Improved DLC Operational Status Indications feature. For more information on this feature, see Division 2, Section 2V.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then

- TRKCLS must be "TSTK"
- TRK DIR must be "INC"

4.14 FGD CIC SZ

Description: Enter the expected size for the incoming CIC for two-way or incoming TTOLLCON, LTOLLCON, or LATA trunk classes. If this field is not entered, a 3 digit CIC is allowed.

Software Release: 5E9(1) and later

Valid Entries:

Valid FGD CIC SZ Entries	
Entry	Definition
BOTH or B	Three or four digit CIC expected.
FOUR or F	Four digit CIC expected.

Data Rules:

If FGD CIC SZ is entered, TRK DIR must be "2W" or "INC", and TRKCLS must be "TTOLLCON", "LTOLLCON" or "LATA".

4.15 SPEECH TRMTS

Description: Havespeech treatments been assigned to this trunk group? ISDN routing and digit analysis require "speech" and 3.1 kHz audio bearer capability calls to be routed differently. 3.1 kHz calls equate to voiceband data, e.g., facsimile and modems. It is important to maintain the integrity of the bit stream for 3.1 kHz audio calls, therefore, no "speech" treatments should be applied to a 3.1 kHz audio call. This field should be set to "Y" if the trunk group has speech treatments assigned to ensure that 3.1 kHz audio calls will NOT be routed over the speech trunk groups. No data checks are made to verify that the trunk group actually has "speech" treatments. However, by setting this field to "Y" the trunk group is restricted to carrying only "speech" calls.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If DATA RATE is entered, SPEECH TRMTS must be "N".

4.16 EON MC RI

Description: Proprietary field.

4.17 RERTE Q INH

Description: Should re-route queuing be inhibited? The RERTE Q INH field is used to indicate if the call can attempt to queue or if it should send the release message back to the upstream switch. A value of N indicates that queuing is not inhibited and the call will attempt to queue. A value of Y indicates that queuing is inhibited, and a release message will be sent back to the upstream switch. For more information, see Div. 2 Sec. 4A217.

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When RERTE Q INH is "Y", TRKCLS must be "TTOLLCON".

4.18 CNA MOD 164

Description: Is the ability to record the Chargeable Account Number in an appended BAF module 164 active?

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When CNA MOD 164 is "Y", then CNA OPTION must not be "NONE".

4.19 CALEA

Description: The CALEA field was added to support the CALEA (Communication Assistance for Law Enforcement Act) feature, both wireline and wireless applications. The CALEA field is used to indicate whether the trunk group is reserved for CALEA or not. If "Y", all trunk members are for CALEA use. If "N", all trunk members are not for CALEA use.

Is this trunk group supporting the Communications Assistance for Law Enforcement Act?

For more information see Division 2, Section 4A509 for the wireline application or Division 2, Section 4A529 for the wireless application.

Software Release: 5E14 and later

Default: N

Valid Entries: Y, N

Data Rules:

When CALEA is "Y":

TRK DIR must be "OUT"

HUNT TYPE must be "UCD"

OUTPLSING must not be entered or "NONE"

INPLSING must not be entered or "NONE"

TRKCLS must be "PF"

ATTN must not be entered

When CALEA is "Y" and DCS TRK is "N" LOCAL SM must be entered.

When trunk groups are defined with CALEA set to "Y", the corresponding trunk group members must NOT have an OUT START DIAL entered.

The wireline application, CALEA Core, is secured and must be purchased by the office before the CALEA field on the TKGRP form can be set to "Y". A SFSYS form must exist with SFID 509 ACT set to "Y".

The wireless application, CALEA Phase III, is also secured and must be purchased by the office before CALEA is set to "Y" and DCS TRK is set to "Y". A SFSYS form must exist with SFID 529 ACT set to "Y".

When TGNs are assigned on the TKGRP form with CALEA equal to "Y" and DCS TRK equal to "Y", the MEMBs of the matching TGNs on the TRUNK form must be on the same SM; (SM is the first three digits of the DEN or NEN).

4.20 REL LINK INIT

Description: Is the trunk group allowed to initiate release link processing? This field is used to indicate whether or not the trunk group is eligible for release link processing.

Software Release: 5E14 and later

Default: N

Valid Entries: Y, N

Data Rules:

When REL LINK INIT is "Y":

TRKCLASS must be "LATA", "TTOLLCON", "PF", "PFITT", PFLASH", "EDSL", or "EDSLHM"

TRK DIR must be "INC" or "2W"

and TRKCLASS is "LATA" or "TTOLLCON", then INPULSING must be "ISUP7" or "MF"

When REL LINK INIT is "Y", the ACT field on the SFSYS form (5713-1 Record) for SFID 520 or SFID 521 must be set to "Y". In addition, since SFIDs 520 and 521 depend on the Long Distance Platform Basic Call Processing for Toll feature, the ACT field on the SFSYS form for SFID 165 must also be set to "Y".

4.21 SEND LD CIC

Description: Send Long Distance Carrier ID Code to terminating end office? The SEND LD CIC field was added to support the LD CIC (Long Distance Carrier Identification Code) in Terminating Tandem feature. This field is used for the outgoing trunk group to indicate whether or not the carrier ID of the trunk group used to

ingress the switch is sent, in the carrier identification parameter, over the outgoing trunk group to the terminating end office.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SEND LD CIC field is used by the LD CIC at Terminating Tandem special feature and must not be entered unless the SFSYS form (5713-1 Record) has ACT set to "Y" for SFID 524. (For more information on this feature, see Division 2, Section 4A524.)

When SEND LD CIC is "Y":

TRK DIR must be "OUT" or "2W"

TRKCLS must be "TTOLLCON"

OUTPULSING must be "ISUP7"

4.22 ROUTE IND

Description: The ROUTE IND (Route Indicator) field is used to establish the proper AMA (Automatic Message Accounting) call record. This field was added to support the Billing and Comptrollers feature (99-5E-7984). This feature is made available in 5E15 Feature Release 3. For more information, see Division 2, Section 4A601.

Software Release: 5E15 and later

Valid Entries:

Valid ROUTE IND Entries	
Entry	Definition
D	Direct
T	Tandem

4.23 INWATS DAS

Description: Proprietary field.

4.24 FAR END ES 4E

Description: Proprietary field.

PFA TRUNK FEATURES

The fields (Section 4.25 - Section 5.3) apply to Private Facility Access trunks.

4.25 BUSY LAMP

Description: Enter the nine-digit DPN (Distribute Point Number) associated with the Busy Lamp. A Busy Lamp is associated with a customer Trunk Group. It is located on the customer premises and is turned on under the following conditions:

- when the MAKE BUSY KEY has been turned on. The BUSY LAMP is under switch control and shows the status of the Make Busy Key.
- when the trunk group BUSY LAMP feature indicates, on a private facility group basis, when the facility group is entirely in use. The feature is applicable when private facilities are provided with access on a dial-up or an ARS (Automatic Route Selection) basis. The switching system activates a light on the customer premises to indicate when all trunks are busy in a private facility group. There is one lamp per private facility group.

Distribute Point consists of:

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
Distribute Point Number	DPN	XX	(Modular MSU) 00 - 31

Data Rules:

This entry must be blank if the TRK DIR is "RAF".

This entry must be blank if TRKCLS is "RMSD3" or "TOPAS".

4.26 MAKE BUSY KEY

Description: The Trunk Group Make Busy Key is associated with a customer Trunk Group. The Make Busy Key is located on the customer premises and is provided to enable the customer to make their private Trunk Group in an all-members-busy condition by activating the key. Enter the nine-digit Scan Point Number associated with the Make Busy Key.

Scan Point Number consists of:

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
Scan Point Number	SPN	XX	(Modular MSU) 00 - 30

Data Rules:

This entry must be blank if the TRK DIR is "RAF".

This entry must be blank if TRKCLS is "RMSD3" or "TOPAS".

5. FORM ENTRIES - 5202-4 RECORD

5.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

5.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

PFA TRUNK FEATURES

5.3 CUT THRU

Description: Is Cut-Thru to a trunk active on this Trunk Group?

Valid Entries: Y, N

Data Rules:

A trunk with cut-thru active may only be accessed by a line or trunk using a PFA or ARS feature.

NOTE: No entry is treated exactly like the value "N". A value of "Y" applies only to trunks with TRKCLS set to "PF", "PFLASH" or "PFCPE", and applies to all trunks in the group.

When this field is "Y", the OUTPUTSING field must be "TT" or "DP".

This entry must be blank or "N" if the TRK DIR is "RAF".

For 5E6 and later, when CUT THRU is "Y": if TRK DIR is "2W" or "OUT", OUTPUTSING must be "TT" or "DP"; if TRK DIR is INC, OUTPUTSING must be blank.

LATA/TTOLL

The fields (Section 5.4 - Section 5.7) apply to toll trunk groups from a LATA (Local Access and Transport Area) and AMA capabilities for Cellular Mobile Carrier interconnections.

5.4 CMC

Description: Is this a CMC (Cellular Mobile Carrier) Trunk Group?

Default: N

Valid Entries: Y, N

Data Rules:

When CMC is "Y", TRKCLS must equal "LATA", "TTOLLCON" (for 5E9(1) and later) or "PF". When BILLING DN is entered and BILL TRKGRP is "Y", CMC must be "Y".

CMC must be "Y" when CMC ID is defined.

5.5 CMC ID

Description: CMC ID is the Cellular Mobile Carrier Identification number. It can be entered by the user or left blank, in which case ODA will automatically generate a value when CMC is "Y".

Software Release: 5E9(1) and later

Valid Entries:

For 5E9(1) through 5E13: 1 - 60

For 5E14 and later: 1 - 1023

Data Rules:

When CMC ID is entered, CMC must be "Y".

When CMC is "Y", BILL TRKGRP is "Y", BILLING DN is known and TRKCLS is "LATA", CMC ID must be 1 - 60.

When CMC ID is greater than 60, ACT must be "Y" on the SFSYS form for SFIDs 128, 160, 167 and 538.

For 5E13 and earlier, a maximum of 60 CMC IDs is allowed per office.

For 5E14 and later, a maximum of 1023 CMC IDs is allowed per office.

5.6 ORIG CMC

Description: Enter the billing type for originating CMC (Cellular Mobile Carrier) calls. This field supports the AMA Capabilities for Type 2A and Type 2B CMC Interconnections secured features (SFID 128 and 160, respectively). For more information on these features, see Division 2, Sections 4A128 and 4A160.

Software Release: 5E9(1) and later

Valid Entries:

Valid ORIG CMC Entries	
Entry	Definition
2A	AMA (Automatic Message Accounting) for Type 2A Cellular Interconnection. Connections to a land-based tandem switch, local or access. Provides connections to and from co-located lines in the tandem, inter-Lata carriers, and other CMCs having terminations within the LATA.
2B	AMA for Type 2B Cellular Interconnection. Connections to a telephone company end office. Provides connections only to and from terminals served by the end office, including lines, private trunks and other CMCs having terminations within the switch itself.
T1	Software Release: 5E10 and later. AMA for Type 1 Cellular interconnection. The trunk direction can be either 2-way ("2W") or outgoing ("OUT"). This value supports the AMA Capabilities for Type 1 Cellular Access. For more information on this feature, see Division 2, Section 4A167.

Data Rules:

ORIG CMC must not be entered unless the SFSYS form (5713-1 Record) has ACT set to "Y" for SFID 128 or SFID 160.

When ORIG CMC is "2A":

BILLING DN must be entered
 CMC must be "Y"
 OUTPULSING must be "MF" or "ISUP7"
 TRK DIR must be "OUT" or "2W"
 TRKCLS must be "TTOLLCON"

If "2B" is entered:

BILLING DN must be entered
 CMC must be "Y"
 OUTPULSING must be "MF" or "ISUP7"
 TRK DIR must be "OUT" or "2W"
 TRKCLS must be "TTOLLCON"

"2B" is associated with Type 2B Cellular Interconnections special feature. This feature is secured and must be purchased by the office before this field can have a value of "2B", i.e., the ACT field for SFID 160 must be "Y" on the SFSYS form (5713-1 Record).

If TERM CMC is entered and OUTPULSING is "ISUP7", SFID 160 must be activated.

For 5E11 and later, when ORIG CMC is "2A", "2B", "T1", CNA OPTION must be "NONE" on this form.

5.7 TERM CMC

Description: Enter the billing type for terminating CMC (Cellular Mobile Carrier) calls.

Software Release: 5E9(1) and later

Valid Entries:

Valid TERM CMC Entries	
Entry	Definition
2A	AMA for Type 2A Cellular Interconnection. See description in ORIG CMC above.
2B	AMA for Type 2B Cellular Interconnection. See description in ORIG CMC above.
T1	Software Release: 5E10 and later. AMA for Type 1 Cellular interconnection. The trunk direction can be either 2-way ("2W") or Incoming ("INC"). This value supports the AMA Capabilities for Type 1 Cellular Access. For more information on this feature, see Division 2, Section 4A167.

Data Rules:

TERM CMC must not be entered unless the SFSYS form (5713-1 Record) has ACT set to "Y" for SFID 128.

If "2A" is entered:

BILLING DN must be entered
 CMC must be "Y"
 INPULSING must be "MF" or "ISUP7"
 TRK DIR must be "INC" or "2W"
 TRKCLS must be "TTOLLCON"

If "2B" is entered:

BILLING DN must be entered
CMC must be "Y"
INPULSING must be "MF" or "ISUP"
TRK DIR must be "INC" or "2W"
TRKCLS must be "TTOLLCON"

"2B" is associated with Type 2B Cellular Interconnections special feature. This feature is secured and must be purchased by the office before this field can have a value of "2B", i.e., the ACT field for SFID 160 must be "Y" on the SFSYS form (5713-1 Record).

If TERM CMC is entered and INPULSING is "ISUP7", SFID 160 must be activated.

For 5E11 and later, when TERM CMC is "2A", "2B", "T1", CNA OPTION must be "NONE" on this form.

For 5E11 and later, when TERM CMC is "T1":

TRKCLS must be "PF".

CMC must be "Y".

BILLING DN must be entered.

TRK DIR must be "INC" or "2W".

INPULSING must be "MF".

LATA TRUNKS

The fields (Section 5.8 - Section 5.12) apply to toll trunk groups from a LATA (Local Access and Transport Area).

5.8 BLK NO ANI

Description: Should calls received on this Trunk Group without ANI (Automatic Number Identification) be blocked? This field is used by an Interexchange Carrier switch on calls direct from an Equal Access End Office or via an Access Tandem with Equal Access Signaling.

Valid Entries: Y, N

Data Rules:

If "Y" is entered, TRKCLS must be "LATA".

The Fixed Route Type of "ESMRT" will be invoked during call processing to block the call. See the FIXRT form (5301-1 Record).

5.9 BILL TRKGRP

Description: Should a billing record be made for Trunk Groups with TRKCLS set to "LATA"?

Valid Entries: Y, N

Data Rules:

If "Y" is entered and CMC equals "Y", then an entry must be made in BILLING DN.

5.10 # NCD SCREENING

Description: Enter the Screening type for Network Call Denial. This field is used by Interexchange Carrier switches to screen the calling number and block calls to the Carrier's network if the originator is a nonpaying customer. Common Channel Signaling is used via the STP/NCP (Signal Transfer Point / Network Control Point) to determine nonpayers. Therefore, if screening is used, COMMON CHAN SIG must equal "Y" on the OFCOPT form. This field was originally created to support the NCD (Network Call Denial) feature. However, the feature that is now available for use has been renamed NAI (Network Access Interrupt). This field activates the NAI feature on a per trunk group basis if SFID (Secured Feature ID) 380 is activated. For more information on the NAI feature, see Division 2, Section 4A380.

Required Field.

Default: NONE

Valid Entries:

Valid NCD SCREENING Entries	
Entry	Definition
NONE	No screening.
MAP	Screen calls for NCD with LATA mapping. Valid for Trunk Groups with TRKCLS set to "CAMAANI". If "MAP" is entered, ORIG LATA must have an entry.
NOMAP	Screen calls for NCD without LATA mapping. Valid for Trunk Groups with TRKCLS set to "LATA".

Data Rules:

If any TGN is defined with the values "MAP" or "NOMAP", the Fixed Route Type of "NCD" must be defined on the FIXRT form.

If the TRK DIR is "RAF", this entry must be "NONE".

5.11 ORIG LATA

Description: This field associates an Originating LATA identification with an Incoming CAMAANI Trunk Group when Network Call Denial Screening is required. In this case, NCD SCREENING equals "MAP". The Trunk Class of CAMAANI would be used at the Interexchange Carrier on direct Trunk Groups originating at nonconforming end offices. (For conforming offices, i.e., Equal Access End Offices, the Trunk Groups incoming to the Carrier, either directly or via an Access Tandem, would have a Trunk Class of "LATA" with NCD SCREENING equal to "NOMAP" or "NONE" and this field left blank.)

For calls from these nonconforming end offices, even if the originator would have been determined to be a nonpayer, blocking must not occur when the originating and terminating LATA is the same. The ORIG LATA value will be compared to a TERM LATA value specified on the LDIT form (5300-3/5) for certain Call Types. If the values are equal, then NCD Screening will not be done.

Valid Entries: 2 - 15

Data Rules:

If the TRK DIR is "RAF", this entry must be blank.

5.12 UTT

Description: Is this a utility telemetry trunk? This field is used for the Suppressed Ringing secured feature. For more information concerning this feature, see Division 2, Section 4A186.

Software Release: 5E9(2) and later
Required.

Default: N

Valid Entries: Y, N

Data Rules:

When UTT is "Y",

- TRK DIR must be "INC",
- TRKCLS must be "LATA",
- INPUTSING must be "MF",
- BRCS must be "N".

When TGNs are defined on this form with UTT set to "Y", the associated TRUNK form(s), found by matching TGN entries, must have IN START DIAL set to "WINK" and BRCS set to "N".

The Suppressed Ringing secured feature must be purchased and the SFID 186 ACT field set to "Y" before the UTT field can be set to "Y".

When TGNs defined on the TKGRP form with UTT set to "Y" and no UTTKGRP defined, then the TGNs will have the following default parameters assigned:

- CTI DIG = 70
- ST = 0
- STP = 50
- ST2P = 100
- MAX CALL TIME = 20

To change these defaults, a UTTKGRP form must be defined for the TGNs.

CCS TRUNKS

The following fields (Section 5.13 - Section 5.18) are available with 5E3 and later Software Releases, and are valid only with CCS (Common Channel Signaling) trunk groups.

5.13 TRUNK QUERY

Description: This field has been replaced by CQ/BQ ALW.

5.14 CQ/BQ ALW

Description: Should the circuit trunk query/BICC group query (5E15 and later) interoffice audit be allowed to run on this CCS trunk group?

Valid Entries: Y, N

Data Rules:

If the TRK DIR is "RAF", this entry must be blank or "N".

For 5E9(2) and later, if "Y" is entered then INPULSING or OUTPULSING must be "CCIS6" or "ISUP7".

For 5E15 and later:

CQ/BQ ALW must be blank for RAF trunks.

When CQ/BQ ALW is set to "Y", then the INPULSING or OUTPULSING value must be set to "ISUP7".

When BICC GRP is entered and is not equal to TGN, CQ/BQ ALW must be "N".

5.15 XLT TEST

Description: Should the translation test interoffice audit be run for this CCS trunk group?

Valid Entries: Y, N

Data Rules:

If the TRK DIR is "RAF", this entry must be blank or "N".

5.16 NEND CLLI

The format for Near End Common Language Location Identifier is as follows. As an example, CHCGILMOCG0 meets the field specifications.

NEND CLLI Field Format		
Character Positions	Information	Example
1 - 4	Place	CHCG (Chicago)
5 - 6	State	IL (Illinois)
7 - 8	Building	MO (Monroe)
9 - 11	Entity	CG0 (Control Group 0)

Data Rules:

A valid non-blank entry must be entered for all CCIS6 Trunk Groups. If XLT TEST is "Y", then this field must be entered. This field must not equal FEND CLLI.

For more detailed information on Common Language Location Identifiers, see Practice 795-100-100.

If the TRK DIR is "RAF", this entry must be blank.

5.17 VPA RATE

Description: Indicates the amount of time spent to conduct the VPA (Voice Path Assurance) Test. The following values are valid with CCS trunks. For non-CCS trunk groups leave blank.

Data Rules:

If VPA TYPE is set to "NOVPA", then VPA RATE must be set to 0.

The VPA test requires tone transceiver circuits to be defined in the DSU (Digital Services Unit) in each SM (Switching Module) that contains members of CCS trunk groups. For CCS trunks where the INPULSING and OUTPULSING fields are set to "CCIS6" or "ISUP7" and the VPA RATE is set to 12, 50 or 100, the

corresponding trunks assigned on the TRUNK forms must be physically located on an SM (Switching Module) that is equipped with a local DSU2 Tone Transceiver. The TEN (Trunk Equipment Number) or the DEN (Digital Equipment Number) value must have the SM value defined on the Digital Service Unit Pack Equipage form, EQDS2P form (5740 Record), with at least one DSC TYPE list entry equal to "LDSU2TX", or for 5E9(2) and later, at least one EQDSC3 (Local Digital Service Circuit 3) form (5852 Record) with non-zero TONE XCVRS entered.

Valid VPA RATE Entries	
Entry	Definition
0	0% VPA test not done.
12	VPA test done 12.5% of the time.
50	VPA test done 50% of the time.
100	VPA test done 100% of the time.

If the TRK DIR is "RAF", this entry must be blank.

If both the INPUTSING and OUTPUTSING fields are blank, or if either field contains a value other than "CCIS6" or "ISUP7", then VPA RATE must be blank or 0.

5.18 VPA TYPE

Description: This field determines the type of Voice Path Assurance test to be performed on this trunk group. It indicates what type of switch (2-wire or 4-wire) is connected at the far-end of the trunk.

Default: NOVPA

- NOTE:** The ICL (Inserted Connection Loss) is the signal loss of the circuit referenced to the nominal impedance of the offices which the circuit interconnects. This reflects all gains or losses from the originating switch's outgoing appearance through the circuit to the outgoing appearance of the terminating switch with the circuit terminating in the nominal office impedance.

For 5E5 and later, the VPA TYPE entry indicates what type of switch (2-wire or 4-wire) is connected at the near end and the far end of the trunk. For example, "4W2WL0" indicates the 5ESS Switch on the near end is a 4-wire switch and the switch at the far end is a 2-wire switch. A 5ESS Switch may be indicated as a 2-wire switch, if it is emulating a 2-wire switch.

Valid Entries:

Valid VPA TYPE Entries (5E5 and later)	
Entry	Definition
NOVPA	VPA test is not run for this Trunk Group.
4W4WL0 (4WICL0)	4-wire switch at the near-end and 4-wire switch at the far-end of the trunk ICL = 0dB. (See the Note below this table.)
4W4WL1 (4WICL1)	ICL = 0.1 - 0.8 dB
4W4WL2 (4WICL2)	ICL = 0.9 - 1.7 dB
4W4WL3 (4WICL3)	ICL = 1.8 - 2.9 dB
4W2WL3 (2WICL4)	4-wire switch at the near-end and 2-wire switch at the far-end of the trunk ICL = 0.0 - 4.0 dB
4W2WL4 (2WICL5)	ICL = 4.1 - 5.5 dB
4W2WL5 (2WICL6)	ICL = 4.1 - 5.5 dB HI LOSS
2W4WL0	2-wire switch at the near-end and 4-wire switch at the far-end of the trunk ICL = 0 dB
2W4WL1	ICL = 0.1 - 0.8 dB
2W4WL2	ICL = 0.9 - 1.7 dB
2W4WL3	ICL = 1.8 - 2.9 dB

2W2WL3	2-wire switch at the near-end and 2-wire switch at the far-end of the trunk ICL = 0.0 - 4.0 dB
2W2WL4	ICL = 4.1 - 5.5 dB
2W2WL5	ICL = 4.1 - 5.5 dB HI LOSS

NOTE: Data Rules:

- when INPULSING or OUTPULSING is "ISUP7", VPA TYPE must be entered with a value other than "NOVPA";
- when INPULSING or OUTPULSING is "CCIS6", VPA TYPE must be entered as "4W4WL0", "4W4WL1", "4W4WL2", "4W4WL3", "4W2WL3", "4W2WL4" or "4W2WL5";
- when neither INPULSING nor OUTPULSING is "CCIS6" or "ISUP7", VPA TYPE must be entered as "NOVPA" or must not be entered;
- when TRKCLS is "RMSD3" or "TOPAS", VPA TYPE must be entered as "NOVPA" or must not be entered.

CCITT7

The fields (Section 5.19 - Section 5.25) apply to CCS7 trunk groups.

5.19 DEST PT CODE

Description: An entry in this field indicates the signaling point for which the CCS message is intended. For the AT&T Communications Network, a point code will be assigned by the CCIS Network Administration Center for each switch. For other networks using the T1 CCS standards for System 7, this will be a 9-digit decimal number. For 5E13 and later, the ISUP7 Loop-Around Intra-Module Trunk feature was added (see Division 2, Section 7AE and the IMT valid entry table below).

The following is the format of DEST PT CODE for AT&T Communications offices:

DEST PT CODE Format for AT&T Communications Offices	
Subfield	Valid Entries
Network Indicator	000 - 255
Cluster Region	00 - 31
Cluster Type	0 - 7
Cluster Member	000 - 255

The following is the format of DEST PT CODE for other networks:

DEST PT CODE Format for other networks	
Subfield	Valid Entries
Network Indicator	000 - 255
Cluster Region and Type	000 - 255
Cluster Member	000 - 255

The following is the format of DEST PT CODE for an intermodule trunk:

DEST PT CODE Format for an intermodule trunk	
Subfield	Valid Entries
Network Indicator	000
Near SM Number	1 - 192
Far SM Number	1 - 192

The following is the format of DEST PT CODE for an intra-module trunk:

Valid IMT Entries - 5E13 and later - SM-2000 Only		
Definition	Format	Valid Entries
Network Indicator	XXX	001 - 254
Cluster Number	XXX	000 - 255
Member	XXX	000 - 255

Data Rules:

This field is required for CCS trunks with signaling type "ISUP7"; for non-CCS trunk groups leave blank.

If the TRK DIR is "RAF", this entry must be blank.

For 5E8 and later, if the OPC (Originating Point Code) field on the OFCOPT form indicates the office is using the T1 CCS format, the DEST PT CODE on this form must be in the T1 CCS format.

If the OPC field on the OFCOPT form indicates that the office is using the AT&T format, then the DEST PT CODE must be in the correct format based on the first three digits of the OPC field. If those digits are 236 or 254, the DEST PT CODE must be in AT&T format, otherwise the T1 CCS format will be used.

For 5E9(1) and later:

If DEST PT CODE specifies an inter-office trunk, then the OPC on the OFCOPT form (5509 Record) must be entered.

If the OPC on the OFCOPT form is entered and indicates the office is in the AT&T format, but the Network ID (the first 3 digits) of the DEST PT CODE do not match the Network ID of the OPC, then the DEST PT CODE values must be in the T1 CCS format.

For 5E11 and later, when VCDX OFFICE is set to "Y" on the EQCORE form, and DEST PT CODE on this form is entered, the corresponding POINT CODE on the PC form must also be entered.

For 5E12 and later, when DEST PT CODE is known and in the IMT format, the seventh, eighth, and ninth digits of DEST PT CODE must not be equal to the fourth, fifth, and sixth digits of the DEST PT CODE.

For 5E14 and later:

DEST PT CODE cannot equal either the OPC on the CCGSM form or the ALIASPC from the APCLIST on the CCGSM form for the same GSM.

When DEST PT CODE is entered, one of the following matches must exist:

- a matching POINT CODE on the PC form,
- a matching CLUSTER on the CLU form and CLUSTER is defined as the concatenation of attributes NETWORK and CLUSTER, or
- a matching NETWORK on the NID form.

For 5E15 and later:

When the first three digits of DEST PT CODE on the TKGRP form are not equal to "000", the number of SS7 trunks supported by an Island GSM (GSM on the CCGSM form is not defined as a GLOBAL SM on the CMTMH form or only one GLOBAL SM is defined for this GSM) cannot exceed 65,536 and the number of SS7

trunks supported by a Host GSM (GLOBAL SM is defined more than once on the CMTMH form for this GSM) cannot exceed 128,000.

5.20 ORIG PT CODE

Description: An entry in this field indicates the signaling point which is the source of the CCS message. It has the same format as the DEST PT CODE and will be assigned in the same manner. ORIG PT CODE cannot be equal to DEST PT CODE. An Originating Point Code identifies an entire office, therefore, all CCS trunks defined in this office with an ORIG PT CODE entered must have the same value entered in this field.

NOTE: Care must be taken to ensure that the Originating Point Code assigned to all trunk groups matches the Originating Point Code in the CNI equipment data which can only be defined on Recent Change View 15.1. Failure to do so could result in a substantial amount of Recent Change effort.

Valid Entries: 9 digits

Digits for AT&T:

[236,254][00-31][0-7][000-255]

Digits for non-AT&T:

[001-235,237-253,255][000-255][000-255]

Data Rules:

This field is required for CCS trunks with signaling type "ISUP7"; for non-CCS trunks leave blank.

For 5E9(1) and later:

A non-ATT office which has COMMON CHAN SIG on the OFCOPT form, may have only one Origination Point Code for its CCS7 Trunk Groups. Thus, ORIG PT CODE on the TKGRP form must be the same on all TKGRP forms where it has been entered and it must match the OPC on the OFCOPT form.

If the TRK DIR is "RAF", this entry must be blank.

If the OPC on the OFCOPT form indicates the office is using the AT&T format, then all the ORIG PT CODE values must be in the AT&T format.

If OPC on the OFCOPT form is blank and the ORIG PT CODE indicates the office is using the format for:

- T1 CCS, then the corresponding DEST PT CODE values must also be in the T1 CCS format.
- AT&T, the corresponding DEST PT CODE value must be in the correct format based on the first 3 digits. If those digits are 236 or 254 and match the first 3 digits of the corresponding ORIG PT CODE, then the DEST PT CODE must be in the AT&T format.
- AT&T, but the Network ID (the first 3 digits of the DEST PT CODE) do not match the Network ID of the ORIG PT CODE, then the corresponding DEST PT CODE value must be in the T1 CCS format.

If OPC on the OFCOPT form indicates the office is using the AT&T format and COMMON CHAN SIG is also entered on the OFCOPT form, then all the ORIG PT CODE values that do not equal the OPC on the OFCOPT form, must match an alias point code for NI LATA Routing in AT&T network. They are used for Network Interconnect messages only. The alias point codes are identical to the CNI data structure.

For 5E11 and later, the OPC entered this form must match the OPC entered on the CCGSM form.

For 5E12 and later, when the ORIG PT CODE and DEST PT CODE specify different networks in the first three digits of the point code, the DEST PT CODE must be in the ANSI format, and the fourth, fifth, and sixth digits of the DEST PT CODE must be between 0 and 255.

For 5E14 and later, ORIG PT CODE must match an OPC or ALIAS PC on the CCGSM form for a GSM or ALIAS POINT CODE on the ALIASPC form.

For 5E15 and later, when ORIG PT CODE and LOCAL SM are both entered on this form, the ORIG PT CODE entered on the TKGRP form must match the OPC entered on the CCGSM form.

5.21 CONTROL TYPE

Description: Enter the Control Type (Transfer Prohibit Action). CONTROL TYPE is used when an outgoing ISUP7 trunk is selected to route out of an office but the associated SS7 dynamic routing (i.e., signaling link, signal transfer point, etc.) to the far point code is marked TFP (Transfer Prohibited). Before attempting to re-route to the next route, CONTROL TYPE is checked to determine whether to skip the current trunk and attempt a re-route on an alternate route, or if the call should be canceled without attempting a re-route.

The setting for CONTROL TYPE should be based on the network topology. The decision for setting CONTROL TYPE is up to the data administrator. Several possible scenarios are described below that can be used as guidelines for determining how CONTROL TYPE should be set.

1. CONTROL TYPE should be set to "CANCEL", if the far office only uses ISUP7 trunks, but the ISUP7 trunks are inaccessible due to a failure. Under these circumstances, calls should not be rerouted because the far switch cannot accept incoming calls via ISUP7 trunks. Rerouting such calls could possibly cause congestion on the indirect routes.
2. CONTROL TYPE should be set to "SKIP", if the available alternate routes do not use ISUP7 signaling. Although the far office is not accessible using ISUP7 trunks, non-ISUP trunks may be able to reach the far office and complete the call.
3. CONTROL TYPE should be set to "SKIP", if dual tandems are connected to a far office. Although the first tandem may not be able to reach the far office via ISUP, the second tandem may be able to. Or, the second tandem may have non-ISUP signaling which is capable of routing the traffic.

Software Release: 5E8 and later

Valid Entries:

Valid CONTROL TYPE Entries	
Entry	Definition
SKIP	Skip this trunk and attempt a re-route on the alternate route.
CANCEL	Do not attempt any reroutes. Cancel the call.

Data Rules:

CONTROL TYPE must be entered for outgoing ISUP7 trunks.

CONTROL TYPE must not be entered for non-ISUP7 outgoing trunks.

5.22 CCS7 TYPE

Description: Enter the ISUP7 Protocol Type indicator. This is used by call processing software to trigger network specific handling of certain ISUP7 messages and parameters.

A value of "ATT" indicates that an RII (Routing Information Indicator) and DLDN (Dialed Directory Number) will be sent if known. It also means the CPN parameter will be handled as the billing number if the network is operating in "old" mode.

A value of "BELLCORE" means that ISUP7 messages and parameters will be handled as specified by Bellcore. For example, the CPN and CHG parameters will be sent when known. Also, the OLI (Originating Line Identity) parameter, when known, will be sent with a value showing the service ID of the call. It also means the FAC REJ message will not be sent when MA-UUI is dropped. RBOC network-specific handling of parameters occurs when CCS7 TYPE is set to "BELLCORE".

Generally, all trunk groups that are in a local exchange carrier environment are populated with a value of "BELLCORE". Conversely, all trunk groups that are in the AT&T environment are populated with a value of "ATT" except "LTOLLCON" trunks that have a value of "BELLCORE".

Software Release: 5E6 and later

Default: For 5E7 and later: BELLCORE

Valid Entries:

Valid CCS7 TYPE Entries	
Entry	Definition
BELLCORE	Software Release: 5E7 and later Handle ISUP7 parameters as specified by Bellcore.
ATT	Software Release: 5E7 and later Handle ISUP7 parameters as specified by AT&T.

Data Rules:

For 5E7 and later, if TRKCLS is "LATA" or "IC", CCS7 TYPE must be "BELLCORE".

"ATT" must be entered if the Network Indicator portion of the ORIG PT CODE is 254.

5.23 RCD 3PT1 ITC

Description: Recode "3.1kHz Audio" Bearer Capability. Enter the bearer capability ("SPEECH" or "3PT1KHZ") to be sent out for outgoing ISUP7 calls with a bearer capability equal to "3.1kHz audio". (See Division 2, Section 1W for more information on this capability.)

RCD 3PT1 ITC only applies to calls that have the following conditions:

- the bearer capability of the outgoing call is 3.1kHz audio,
- this is an originating end office serving a non-ISDN originator or a local tandem which received the call via an incoming inband signaling speech trunk, and
- an outgoing ISUP7 trunk was selected.

If no value has been defined, the RCD 3PT1 ITC field on the OFCOPT form (5509 Record) will determine the bearer capability value to be sent out.

Software Release: 5E8 and later

Valid Entries:

Valid RCD 3PT1 ITC Entries	
Entry	Definition
SPEECH or S	Recode to "speech"

3PT1KHZ or 3	Send out as is, i.e. 3.1kHz audio

Data Rules:

RCD 3PT1 ITC must not be entered for Non-ISUP trunks, for One-Way Incoming ISUP7 trunks, or if this is a TOLL office.

5.24 ISUP MLD

Description: Is the ISUP MLD (Message Loop Detection) active? This field is used to activate and deactivate the ISUP-MLD capability on a per-SS7 trunk group basis. The ISUP MLD and MAX HOP CNT fields have been added to support the ISUP Message Loop Detection feature. If this field is not entered, ISUP MLD is set to "Y" for SS7 trunks when the feature is purchased. For more information on this feature, see Division 2, Section 4A163.

Software Release: 5E11

Valid Entries: Y, N

Data Rules:

If "Y" is entered:

- MAX HOP CNT must be entered
- OUTPULSING must be "ISUP7"

The ISUP MLD and MAX HOP CNT fields on the TKGRP form are used by the ISUP Multiple Loop Detection Special Feature. It is a secured feature that must be purchased by the office before the ISUP MLD may be "Y" or MAX HOP CNT may be entered. The ACT field for SFID 163 must be set to "Y" on an SFSYS form (5713-1 Record).

5.25 MAX HOP CNT

Description: Enter the maximum number of SS7 interexchange circuits allowed per ISUP call. ISUP MLD SS7 Interexchange Hop Counter is assignable on a per SS7 trunk group basis. The initial value must be greater than the maximum number of circuits that would normally be used to complete the call. The ISUP MLD and MAX HOP CNT fields have been added to support the ISUP Message Loop Detection feature. For more information on this feature, see Division 2, Section 4A163.

Software Release: 5E11 and later.

Valid Entries: 1 - 20

Data Rules:

The ISUP MLD and MAX HOP CNT fields on the TKGRP form are used by the ISUP Multiple Loop Detection Special Feature. It is a secured feature that must be purchased by the office before the ISUP MLD may be "Y" or MAX HOP CNT may be entered. The ACT field for SFID 163 must be set to "Y" on an SFSYS form (5713-1 Record).

If "ISUP7" is entered in OUTPLS and MAX HOP CNT is not entered, 20 will automatically be entered in MAX HOP CNT.

5.26 PLATFORM

Description: This field indicates whether or not the platform is CNI or PSU. This is a display only field for ODA.

Software Release: 5E15 and later

When the number of ISUP trunks on both PSU and CNI platforms exceed 100,000, the ACT field for SFID 622 on the SFSYS form (5713-1 Record) must be set to "Y", and there should not be any ISUP trunks on a CNI platform in that office. More than 256,000 ISUP trunks on PSU platform is not allowed.

CENTREX NETWORK

The following fields (Section 5.27 - Section 6.4) support the CENTREX Network secured features. For more information on CENTREX Network see Division 2, Section 4A181, Division 2, Section 4A182, and Division 2, Section 4A183.

5.27 MBG ID

Description: Enter the MBG (Multi-switch Business Group) Identifier associated with this trunk group. This trunk group is dedicated to MBG call traffic. If this field is entered, then MBG network specific information is included in the outgoing SS7 IAM message. If this field is not entered then the trunk group is not associated with an MBG.

Software Release: 5E9(2) and later.

Valid Entries: 2 - 65535

Data Rules:

If MBG ID is entered, then

- the MBG must be defined on the MBG form (5633 Record) and CNS on that form must be set to "Y".
- the SFID 183 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). The MBG ID field on the TKGRP form is used by the CENTREX Network Special secured feature, which must be purchased by the office before the MBG ID field can have an entry.

For 5E12 and later, when MBG ID is entered and OUTPUTSING is not "ISUP7":

TRKCLS must be "EDSL" or "EDSLHM".

VPN ACCESS must be "Y".

6. FORM ENTRIES - 5202-5 RECORD

6.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

6.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

CENTREX NETWORK

6.3 OVFL MC RTIDX

Description: The Overflow MC Route Index is used to re-route overflow MBG calls to the PSTN (Public Switched Telephone Network).

Software Release: 5E9(2) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If this field is entered, then

- MBG ID must be entered
- it must be defined as MC ROUTE INDEX on an MCRTIDX form (5304 Record)

6.4 TRK ICI

Description: The Trunk ICI (Incoming Call Identifier) is used to identify the off-net trunk type incoming to the MBG network. This information is converted to the appropriate ICI and displayed on the terminal of the ISAT (ISDN attendant) for the called party.

Software Release: 5E9(2) and later.

Valid Entries:

Valid TRK ICI Entries	
Entry	Definition
FTS	Identify trunk group as an FTS-2000 (Federal Telecommunications System 2000) trunk group.
FX	Identify trunk group as an FX (Foreign Exchange) trunk group.
TIE	Identify trunk group as a TIE trunk group.

CCS7 EQUAL ACCESS

The following CCS7 EQUAL ACCESS fields (Section 6.5 - Section 6.10) are available with 5E6 and later Software Releases.

6.5 CPN RSTRCT

Description: Calling Party Number Restriction. Should this field prevent the Calling Party Number from being transmitted to the next office in the CCS7 ISUP7 IAM (Initial Address Message)?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field is used only when TRKCLS is "LATA". If TRKCLS is not "LATA", CPN RSTRCT must be "N".

If OUTPUTSING is not "ISUP7", then CPN RSTRCT must be "N".

6.6 CHG RSTRCT

Description: Charge Number Restriction. Should this field prevent the Charge Number from being transmitted to the next office in a CCS7 ISUP7 IAM (Initial Address Message)?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field is used only when TRKCLS is "LATA". If TRKCLS is not "LATA", CHG RSTRCT must be "N".

If OUTPUTSING is not "ISUP7", then CHG RSTRCT must be "N".

6.7 ATP IC RSTRCT

Description: Should the passing/accepting of the ATP (ISUP7 Access Transport Parameter) be prohibited?

If "N" is entered the ATP will be passed or accepted by the switch.

The ATP may be included in any of the following ISUP7 messages: IAM (Initial Address Message), ACM (Address Complete Message), ANM (Answer Message), CPG (Call Progress Message), or REL (Release Message).

NOTE: This field is only used by the operational software at network boundaries. Therefore, this field should be optioned for trunks with a TRKCLS of "LATA" or "IC".

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ATP IC RSTRCT is "Y", INPUTSING and OUTPUTSING must be "ISUP7".

If ATP IC RSTRCT is "Y", TRKCLS must be "LATA" or "IC".

If TRKCLS is "LATA", then UUI IC RSTRCT and ATP IC RSTRCT must be equal.

6.8 UUI IC RESTRCT

Description: Should the passing/accepting of the UUI (User to User Information Parameter) be prohibited?

If "N" is entered the UUI will be passed/accepted by the switch.

User to User Information Signaling transfer allows ISDN customers to exchange user data transparently through the network, in the UUI of an ISUP7 message, during call setup and call clearing.

The UUI may be included in any of the following ISUP7 messages: IAM (Initial Address Message), ACM (Address Complete Message), ANM (Answer Message), CPG (Call Progress Message), or REL (Release Message).

- **NOTE:** This field is only used by the operational software at network boundaries. Therefore, this field should be optioned for trunks with a TRKCLS of "LATA" or "IC".

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If UUI IC RSTRCT is "Y", INPULSING and OUTPULSING must be "ISUP7".

If UUI IC RSTRCT is "Y", then TRKCLS must be "LATA" or "IC".

If TRKCLS is "LATA", then UUI IC RSTRCT and ATP IC RSTRCT must be equal.

6.9 NI ANNC

Description: If a call cannot be routed to a valid destination from an IXC (Inter-exchange Carrier), should inband tone be applied?

If "N" is entered, a CCS7 Release Message with a cause of no route to destination (3) will be sent to the preceding exchange instead of busy tone.

The value entered in this field will be checked by the operational software for called number screening failures that consist of the following:

- the call originates from a non-ISDN interface.
- the call route consists only of ISUP7 trunks.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

6.10 NI IW REL

Description: If a call cannot be routed to a valid destination from an IXC (Inter-exchange Carrier), should a network interconnect interworking release message be sent? If "Y" is entered, a CCS7 Release Message with a cause of no route to destination (3) will be sent to the preceding exchange; otherwise, a busy tone will be sent.

The value entered in this field will be checked by the operational software for called number screening failures that consist of the following:

- the call originates from a non-ISDN interface.
- the call route consists of a combination of ISUP7 trunks interworked to other signal protocol trunks (e.g., MF).

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

NI IW REL may be "Y" only if INPUTSING and OUTPUTSING are "ISUP7", and TRKCLS is "IC".

MODULAR QUEUING TRUNKS

The following fields (Section 6.11 - Section 6.13) are used for Modular Queuing trunks.

6.11 QUEUE ALLOWED

Description: Is queuing allowed for this Trunk Group?

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the Queue Feature name must be defined on a QUFD form (5617-1 Record).

For 5E5 and later, if TRKCLS is "RAFDTA" and SRV GRP is "ACCS", QUEUE ALLOWED must be "Y"; if TRKCLS is "RAFDTA" and SRV GRP is some other value, QUEUE ALLOWED must be "N". See Data Rules under the SRV GRP field for allowable SRV GRP values on RAFDTA trunk groups.

If the TRKCLS is "RAFANNC" or "RAFCTR", then QUEUE ALLOWED must be "N" or blank.

If this field is "Y", then TRK DIR must be "2W", "OUT" or "RAF" and the QUEUE FEATURE field must be entered.

If Ringback queuing is allowed for this trunk group, TRK DIR must have a value of "OUT".

For 5E6 and later, if QUEUE ALLOWED is "Y" and LN TYPE is "NONE" or is not entered, then TRKCLS must be "PF", "PFITT", "PFLASH", "RAFDTA", "BVTOLLCM", or "BVINTOLL".

For 5E13 and later, when QUEUE ALLOWED is "Y" and LN TYPE is "NONE" or not entered, TRKCLS must be "BVINTOLL", "BVTOLLCM", "IC", "LATA", "LTOLLCON", "PF", "PFITT", "PFLASH", "RAFDTA", or "TTOLLCON".

For 5E13 and 5E14, when QUEUE ALLOWED is "Y", TRKCLS must be "BVINTOLL", "BVTOLLCM", "IC", "EDSL", "LATA", "LTOLLCON", "PF", "PFITT", "PFLASH", "RAFDTA", or "TTOLLCON".

■ **NOTE:** For 5E15 and later, when Egress Queuing is being provisioned, TTRKCLS must be "PBXDID", "PF", "PFLASH", "PFITT", "EDSL", or "RDSLHM" and when Office Queuing is being

provisioned, TRKCLS must be "IC", "LTOLLCON:", "TTOLLCON", or "LATA"

6.12 ENQUEUE ACT

Description: Will queuing be allowed on the Trunk Group? This field enables or disables queuing for the trunk group. Also, it enables or disables queuing for the AP Facilities Management feature. If this field is left blank, it will be set to a "Y" by ODA. If ENQUEUE ACT is set to "N" and the queuing feature has been assigned, queuing will not be allowed on the trunk group.

Valid Entries: Y, N

Data Rules:

If the TRK DIR is not "2W" or "OUT", this field must be blank.

If TRKCLS is "RMSD3" or "TOPAS", this field must be blank.

For 5E6 and later, this field is used differently for Leased Networks. Entering "N" for this field may still allow queuing for critical users in the LN.

6.13 QUEUE FEATURE

Description: Name of the Queue feature assigned to this Trunk Group. The feature must be defined on a QUFD form (5617-1,2 Record).

Valid Entries: 1 - 8 characters

Data Rules:

If TRKCLS is "RMSD3", "TOPAS", "RAFANNC" or "RAFCTR", this field must be blank.

For 5E5 and later, if TRKCLS is "RAFDTA" and SVC GRP is "ACCS", then this field must be entered.

For 5E7 and later when TRKCLS is "EDSL", the QUEUE FEATURE entered in this field must be defined on a QUFD form where QUEUE TYPE is "OFFHK".

For 5E9(2) and later, if a QFEATURE on this MLHG form is assigned to the same QUEUE MODULE on a QUFD form (5617-1/2 Record) or a QUGPA form (5617-3/4 Record), the QUEUE SIZE must not exceed 255 per QUEUE MODULE if the corresponding EQIM form (5700 Record), where SM matches QUEUE MODULE, has UNIT TYPE set to a value other than "SM2000". Queue Size is the sum of the BASIC SIZE + EXTENDED SIZE + ROUTINE SIZE + PRIORITY SIZE on the QUFD or QUGPA forms for each of the Q FEATURES assigned to the same QUEUE MODULE.

When QUEUE FEATURE is known on the TKGRP form and the QUEUE TYPE is set to "HPCOHQ" on the corresponding QUFD form, the GETS High Probability of Call Completion Secured Feature must be purchased by the office. A SFSYS form must exist with SFID 279 ACT set to "Y".

For 5E13 and 5E14, when TRKCLS is "IC", "LATA" or "LTOLLCON", QUEUE FEATURE is known, and LN TYPE is "NONE" or is unknown on the TKGRP form, the QUEUE TYPE must be set to "HPCOHQ" on the corresponding QUFD form. QUEUE FEATURE on the TKGRP form matches FEATURE NAME on the QUFD form.

NOTE: For 5E15 and later, Private Facility Egress Queuing can be performed on a GETS call terminating to a PF/PRI trunk with any of the following classes of service: PBXDID, PF, PFLASH, PFITT, EDSL, or EDSLHM. Office Queuing for Public Trunks can be performed on a GETS call attempting to egress the switch over a trunk group with any of the following classes of service: IC,

LTOLLCON, TTOLLCON, or LATA. The user should ensure there are sufficient trunk groups in the office with the respective classes of service for both Egress Queuing and Office Queuing.

6.14 INH GETS OFC Q

Description: This field is used to determine whether or not calls to a particular Trunk Group are allowed or excluded from using the GETS Queuing resource.

Software Release: 5E15 and later

Default: N

Valid Entries: Y, N

Data Rules:

For 5E15 and later, when INH GETS OFC Q is "Y", TRKCLS must be "EDSL", "EDSLHM", "IC", "LATA", "LTOLLCON", "PBXDID", "PF", "PFITT", "PFLASH", or "TTOLLCON".

DSN TRUNKS

The following fields (Section 6.15 - Section 6.17) are applicable to DSN (Defense Switched Network) trunk groups, available with 5E3 and later Software Releases. If entries are made in these fields, then the DSN OPTION field on the OFCOPT form must be set to "Y".

6.15 DSN ARC ID

Description: Enter the ID of the ARC (Alternate Route Cancellation) Control Table entry associated with this trunk group. ARC ID entries are defined on the DSNCO form (5618-8 Record).

Valid Entries: 0 - 63

Data Rules:

If the office is not a DSN office, DSN ARC ID must be 0 or blank.

If TRK DIR is "RAF", this field must be 0 or blank.

For 5E7 and later, if TRKCLS is "INAISTRK", the field must be blank; if TRKCLS is "PACKET" or "X75P", it must be 0 or blank.

For 5E8 and later, if TRKCLS is "ATNDVIFY", DSN ARC ID must be blank.

6.16 SHUTTLE

Description: Should the office verify that the call is originated and terminated on two distinct trunk groups? This is used in DSN (Defense Switched Network) offices on trunk groups between switches that support dual homed PBXs or End Offices.

Default: N

Valid Entries: Y, N

Data Rules:

If SHUTTLE is "Y", then HUNT TYPE must be "2WF", "2WB", "PRFL" or "PRBL".

If TRK DIR is "RAF", SHUTTLE must be either "N" or not entered.

6.17 MLPP STAGE

Description: The MLPP (Multi-level Precedence and Preemption) STAGE field is used to designate an MLPP SS7 (Signaling System 7) trunk group as either a Stage 1 or Stage 2 trunk group.

Valid Entries:

MLPP STAGE Valid Entries	
Entry	Definition
STAGE[1]	The Stage 1 Protocol send/receives the PP Level in the Calling Party Category.
STAGE[2]	The Stage 2 Protocol send/receives the PP Level in the MLPP Precedence Parameter.

Data Rules:

When MLPP STAGE is entered:

WB RATE must not be entered.

TRK DIR must be "2W".

HUNT TYPE must be "PRBL", "PRFL".

TRKCLS must be "LTOLLCON", "PRINTOLL", or "TTOLLCON".

INPULSING must be "ISUP7" and OUTPULSING must be "ISUP7".

CCS7 TYPE must be "BELLCORE".

IMMEDIATE START ANNOUNCEMENT

The following field activates the Immediate Start Announcement Interface for PINNACLE ACD (Automatic Call Distributor) feature.

6.18 IMM START ANN

Description: Is this an Immediate Start Announcement trunk group? This field supports the Immediate Start Announcement Interface for PINNACLE ACD feature. See Division 2, Section 1BX.

Software Release: 5E12 SU and later.

Default: N

Valid Entries: Y, N

Data Rules:

When IMM START ANN is "Y",

TRKCLS must be "LTOLLCON"

AUD RNG must be "Y"

TRK DIR must be "OUT"

HUNT TYPE must be "FIFO"

INPULSING must be either blank or "NONE"

OUTPULSING must be "MF"

CASCADING must be "Y"

MAXCALLS must be blank

CYCLES must be blank.

6.19 RTCD REQ

Description: The RTCD REQ field is used to indicate whether or not RTCD (Real Time Call Detail) billing records are generated for this trunk group.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12, when RTCD REQ is "Y", TRKCLS must be "EDSL", "IC", "LATA", "PF", or "TTOLLCON".

For 5E12 and later, when RTCD REQ is "Y", ENET LINK NBR must be defined on an ENETLINK form where SERV TYPE equals "RTCD".

For 5E13 and later, when RTCD REQ is "Y", TRKCLS must be "EDSL", "EDSLHM", "IC", "LATA", "PF", or "TTOLLCON".

EDSL/PRI TRUNKS

The following fields (Section 6.20 - Section 7.24) are applicable to EDSL (Extended Digital Subscriber Line) Trunk Groups. If entries are made in these fields, the TRKCLS entered must be "EDSL" or "EDSLHM".

If TRK DIR is "SGNL", then the PIC, CI DIAL, STA ID, UII and CODE SET7 fields must be blank and the CBC field must be "N". If the TRKCLS is not "EDSL" or "EDSLHM", then the PIC, CI DIAL, STA ID, UII and CODE SET7 fields must be blank, and the CBC field must be "N" or blank.

6.20 STA ID

Description: This field pertains to the delivery of the station ID or CPN (Calling Party Number) and applies to outgoing and two-way PRI (Primary Rate Interface) trunk groups only. It does NOT apply to incoming PRI trunk groups.

Software Release: 5E4(2) and later

Valid Entries: TRAN

Data Rules:

This field has an interaction with the CPN BN OPT field. The CPN BN OPT field has precedence over STA ID.

If the CPN BN OPT field is set to "NONE", and this field is set to "TRAN", the station ID, also referred to as the CPN (Calling Party Number), will be delivered over this PRI. The number will only be delivered over the PRI if made available by the originating station.

If the station ID is marked private, this field has an interaction with the PRI PRVT field on the LASSOP (5945 Record) form. If the PRI PRVT field is set to "Y", the number will be sent marked private. If PRI PRVT is set to "N", the station ID will not be sent.

If the CPN BN OPT field is set to "NONE", and this field is blank, the station ID will not be delivered over the PRI. In this case, the PRI PRVT field on the LASSOP form is not used.

Refer to Division 2, Section 1BL on Privacy Features for additional information.

6.21 UUI

Description: Can the Trunk Group send/receive User-to-User Information? UUI will only be passed if both the originating and terminating trunks allow UUI.

Software Release: 5E4(2) and later

Valid Entries: Y, N

Data Rules:

If this field is blank, the field defaults to "N".

6.22 CODE SET7

Description: The value "CODE7" indicates that the Trunk Group can send/receive CODESET 7 information. This is associated with UUI. If this field is blank, the Trunk Group cannot send/receive CODESET 7.

Software Release: 5E4(2) and later

Valid Entries: CODE7

6.23 SDN DAS

Description: Enter the DAS (Digit Analysis Selector) to be used for SDN Call-by-Call.

Software Release: 5E6 and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Population of this attribute with a non-null value is optional. If the SDN dialing plan cannot be included in the DAS (also on this form), then SDN DAS will be used as an alternate DAS.

6.24 CBC

Description: Is the Call-by-Call feature available for this Trunk Group? The Call-by-Call feature allows a group of trunks to be assigned multiple features on a per call basis.

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

Data Rules:

CBC must be "N" or blank when DEDICATED SRV is entered. Call-by-Call SFGs are assigned on the TKEDSLD form (5209 Record).

6.25 DEDICATED SRV

Description: Enter the PRI dedicated service type.

Software Release: 5E6 and later

Valid Entries:

Valid DEDICATED SRV Entries	
Entry	Definition
I800	International 800 Service
ILDS	International Long Distance Service and World Zone 1 calls outside of the continental U.S.
INWATS	INWATS Service
MEGACOM	MEGACOM Service
M800	MEGACOM 800 Service
NOVA	Dial-it NOVA Service
OUTWATS	OUTWATS
SDN	Software Defined Network Service for non-ACP

Data Rules:

A value can only be entered in this field when the TRKCLS is "EDSL" or "EDSLHM" and the TRK DIR is not "SGNL".

When DEDICATED SRV is entered, CBC must be blank or "N" and ACP SDN must be blank or "N".

ETN (Electronic Tandem) or SDN (Software Defined Network) traffic can be routed over dedicated PRI facilities if the call originated from an ETS (Electronic Tandem Switch) node.

6.26 VOICE CUT THRU

Description: This field identifies the cut through procedure to be used for Circuit-Switched Voice calls.

The cut through option to be used for a call is determined by the cut through option in the office at the originating end of the call.

Cutting through in the backward direction allows the originating end to hear tones and announcements received from the terminating end.

Cutting through in the forward direction allows the originating end to speak/send data and be heard/received at the terminating end.

There is no delayed cut through option for CSV calls.

Software Release: 5E6 and later

Required Field.

Default: NORMAL

Valid Entries:

Valid VOICE CUT THRU Entries	
Entry	Definition
NORMAL	Normal cut through procedures. The path is cut in the backward direction when the call originates. The path is cut in both directions when the terminating end answers and all appropriate protocol messages have been received at the originating end.
EARLY	Early cut through procedures. The path is cut in both directions when the call originates.

Data Rules:

In a private office, the "EARLY" option is usually used. If the "NORMAL" option is used, then the originating caller may not be able to dial digits in response to tones and announcements.

In a public office the "NORMAL" option will usually be used. If the "EARLY" option is used, a private office

connected to a public office via the PRI could commit fraud when a call originates in the public office and terminates in the private office. The private office could effect this fraud by failing to send select protocol messages, resulting in a talking path established and put into use without billing being generated.

If TRKCLS is not "EDSL" or "EDSLHM", then VOICE CUT THRU must contain the default value of "NORMAL".

6.27 DATA CUT THRU

Description: This field identifies the cut through procedure to be used for Circuit-Switched Data calls.

The cut through option to be used for a call is determined by the cut through option in the office at the originating end of the call.

Cutting through in the backward direction allows the originating end to hear tones and announcements received from the terminating end.

Cutting through in the forward direction allows the originating end to speak/send data and be heard/received at the terminating end.

Software Release: 5E6 and later

Required Field.

Default: NORMAL

Valid Entries:

Valid DATA CUT THRU Entries	
Entry	Definition
NORMAL	Normal cut-thru procedures. The path is cut in the backward direction when the call originates. The path is cut in both directions when the terminating end answers and all appropriate protocol messages have been received at the originating end.
EARLY	Early cut-thru procedures. The path is cut in both directions when the call originates.
DELAY	Delayed cut-thru procedure. The path is cut through in both directions, but only after the terminating end answers and all appropriate protocol messages have been received at the originating end.

Data Rules:

In a private office, the "EARLY" option is usually used. If the "NORMAL" option is used, then the originating caller may not be able to dial digits in response to tones and announcements.

In a public office the "DELAY" or "NORMAL" option is usually used. If the "EARLY" option is used, a private office connected to a public office via the PRI could commit fraud when a call originates in the public office and terminates in the private office. The private office could effect this fraud by failing to send select protocol messages, resulting in a talking path established and put into use without billing being generated.

The "DELAY" option is used to prevent fraud which may occur if the "NORMAL" option is used. When a public office uses the "NORMAL" option, then a private office connected to the public office via the PRI could commit fraud when a call originates in the public office and terminates in the private office. The private office could effect this fraud by failing to send select protocol messages, resulting in a talking path established and put into use without billing being generated. Since not all appropriate protocol messages would have been received, the path is cut-thru only in the backward direction (originating end can receive but cannot send), which is sufficient only for One-Way data transmission from the private office to the public office.

If data rate is not entered, the DATA CUT THRU must be the default value of "NORMAL".

If TRKCLS is not "EDSL" or "EDSLHM", the DATA CUT THRU must contain the default value of "NORMAL".

6.28 APPLICATION

Description: This field specifies that a PRI (Primary Rate Interface) is being used for an application that requires special handling of the PRI. When a PRI B-channel is connected to an IWF (Inter-Working Function) or INBLDG (In-Building) as part of the architecture of the CDMA Voice or TDMA VIS (Vocoder in Switch), APPLICATION should be set to "IWF" or "INBLDG". For more information on this feature, see Division 2, Section 4A280.

Software Release: 5E12 and later.

Valid Entries:

Valid APPLICATION Entries - 5E12 - 5E13	
Entry	Definition
IWF	Inter-Working Function
Valid APPLICATION Entries - 5E14 and later	
Entry	Definition
Blank	Not Used
IWF	Inter-Working Function
INBLDG	In-Building Application

Data Rules:

When APPLICATION is "IWF",

- TRKCLS must be "EDSL" or "EDSLHM"
- TRK DIR must not be "SGNL"
- VOICE CUT THRU must be "EARLY"
- BRCS must be "N"
- and if DCS TRK is "Y", DCS RETRY must be "Y".

When TGNs are defined on this form with TRKCLS of "EDSL" or "EDLSHM" and APPLICATION of "IWF", each corresponding D-channel trunk member that is signaling for the associated B-channels of this trunk group (on TRUNK form) must have Q921 PROC and Q931 PROC assigned as "NETWORK".

NOTE: For 5E12 and later, when "IWF" is entered for a DEN on the TRUNK form, the values of FAC 0 EC CLI and FAC 1 EC CLI on the EQDUP form must be 0.

For 5E14 and later, for B-channels, when APPLICATION is "INBLDG" or "IWF":

- TRKCLS must be "EDSL" or "EDSLHM"
- DCS TRK must be "Y" and DCS RETRY must be "N".

For 5E14 and later, for D-channels, when TRKCLS is "EDSL" or "EDSLHM", and TRK DIR is not "INC", "OUT", or "2W":

- APPLICATION must not be entered
- DCS TRK must be "N"

- HUNT TYPE must be blank
- DCS RETRY must be "N".

For 5E14 and later, when the APPLICATION field is "INBLDG", the ACT field on the SFSYS form (5713-1) for SFID 221 (for CDMA) or SFID 259 (for TDMA VIS) must be set to "Y". In addition, since SFIDs 221 and 259 depend on the DCS (Digital Cellular Switch) feature, the ACT field on the SFSYS form for SFID 130 must also be set to "Y".

6.29 MAIN DN

Description: This field contains a default directory number that should be used when a user-provided CPN is discarded or when the user does not provide a CPN on Circuit-Switched Voice and Circuit-Switched Data calls.

MAIN DN should only be populated when the far office is a PBX (Private Branch Exchange) and the near office is a public switch (central office or toll office). MAIN DN should be filled with the main directory number of the PBX or some other number which can be called.

Software Release: 5E6 and later

Valid Entries: a 10-digit directory number in the form NPANXXXXXX

- where NPA is: 200 - 999

Data Rules:

If MAIN DN is entered, then TRK DIR must be set to "2W" or "INC". If TRKCLS is not "EDSL" or "EDSLHM", then MAIN DN cannot be entered.

6.30 CPN BN OPT

Description: This field indicates the CPN/BN (Calling Party Number/Billing Number) option subscribed to by a PRI. This option specifies whether the CPN and BN should be delivered for Circuit-Switched Voice or Circuit-Switched Data calls. This option is assigned at the near end switch and depends on the number that the far end switch wishes to receive.

Software Release: 5E6 and later

Required Field.

Default: NONE

Valid Entries:

Valid CPN BN OPT Entries	
Entry	Definition
NONE	No CPN/BN option on this PRI. Neither CPN nor BN is sent on outgoing calls.
CPNONLY	CPN only option. Only the CPN will be sent. If the CPN is not available, no number is sent.
CPNPREF	CPN preferred option. The CPN is sent if it is available, otherwise, the BN is sent if it is available. If neither the CPN or the BN is available, then no number is sent. The Billing Number may be populated with XXX-000-0000 (where XXX is the far end NPA of the incoming trunk) depending on the type of call and what information is received about the calling party.
BNONLY	BN only option. Only the BN is sent. If it is not available, then no number is sent. The Billing Number may be populated with XXX-000-0000 (where XXX is the far end NPA of the incoming trunk) depending on the type of call and what information is received about the calling party.
BNPREF	BN preferred option. The BN is sent if it is available, otherwise, the CPN is sent if it is available. If neither the CPN or the BN is available, then no number is sent. The Billing Number may be

	populated with XXX-000-0000 (where XXX is the far end NPA of the incoming trunk) depending on the type of call and what information is received about the calling party.
CPNUP	Only the CPN is sent, if it is available, and the CPN will be considered user-provided and not screened. This option should be used on PRIs where the near office is a PBX and the far office is a public switch (central office or toll office). If the CPN is not available then no number is sent.

Data Rules:

In a private network (PBX to PBX), the "BNONLY" option should not be assigned to PRIs connecting the private switches for customers that want to receive the calling party number from both callers within the private network and callers outside of the private network. See Table 1 for a description of how to assign CPN BN OPT for different switch configurations interconnected via PRIs. If TRKCLS is not "EDSL" or "EDSLHM", the CPN BN OPT must contain the default value of "NONE". If a value other than "NONE" is entered, then TRK DIR must be set to "2W" or "OUT".

6.31 PRIV OVER

Description: May private DNs be sent over a PRI? Private DNs should not be sent from a public switch (central office or toll office) to a private network switch (PBX) except in special cases where the PBX has agreed not to send the number to the terminating party. To block private numbers from being sent over a PRI, set PRIV OVER to "N". To allow private numbers to be sent over a PRI, set PRIV OVER to "Y".

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then TRK DIR must be set to "2W" or "OUT".

If TRKCLS is not "EDSL" or "EDSLHM", then PRIV OVER must contain the default value of "N".

If "Y" is entered, CPN BN OPT must not be "NONE".

- **NOTE:** PRIV OVER is not used in conjunction with STA ID, only with CPN BN OPT. If PRIV OVER is set to "Y", CPN BN OPT must be set to other than "NONE".

6.32 CPN SCR N

Description: Should a user-provided CPN be screened on incoming calls over this PRI for Circuit-Switched Voice and Circuit-Switched Data calls?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

CPNs received in a public switch (PBX) may or may not be screened. When CPN SCR N is set to "Y", then the PBX ID field (also on this form) must be entered. The PBX ID value must appear on a SCRNRNG form (5212 Record) which will define the valid DNs that CPN will be screened against. If "Y" is entered, then TRK DIR must be set to "2W" or "INC".

CPNs received in a private switch should not be screened since they may have already been screened by a public switch and since the CPN could have come from anywhere in the public network. CPNs received in a public switch from another public switch should not be screened for the same reason.

The CPN received will not be screened even when CPN SCRNM is "Y" if the Calling Party Number Information Element is not populated correctly. The CPN IE in the received Q.931 SETUP message must have the Type of Number of either "National number" or "Subscriber (or local) number" and the Numbering Plan ID must be either "ISDN/telephony numbering plan (Rec. E.164/E.163)" or "Telephony numbering plan (Rec. E.163)".

Figure 3 contains suggested CPN SCRNM assignments for different switch configurations interconnected via PRIs.

If TRKCLS is not "EDSL" or "EDSLHM", then CPN SCRNM must contain the default value of "N".

6.33 CPN DISC

Description: Should a user-provided CPN be discarded and replaced with a network provided CPN when certain criteria are met during incoming calls over this PRI for Circuit-Switched Voice and Circuit-Switched Data calls? These criteria are met when a user-provided CPN is screened and fails, or when a user-provided CPN is not screened.

When CPN DISC is set to "N", the user-provided CPN is never discarded and is used as the CPN. When CPN DISC is set to "Y" and the above-mentioned criteria met, then the user-provided CPN will be discarded and replaced with a network-provided DN (if one is available). This network-provided DN should be entered as the MAIN DN.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

User-provided CPNs on calls to public switches (central office or toll office) from private switches (PBX) should be discarded if screening fails or is not done.

User-provided CPNs on calls to public switches from another public switch should not be discarded, because they should not be screened.

User-provided CPNs on calls to private switches from public switches or another public switch should not be discarded, because they should not be screened.

Figure 3 contains suggested CPN DISC assignments for different switch configurations interconnected via PRIs.

If TRKCLS is not "EDSL" or "EDSLHM", then CPN SCRNM must be "N". If "Y" is entered, then TRK DIR must be set to "2W" or "INC".

6.34 INHIBIT TCM

Description: Should the TCM (Traveling Class Mark) be inhibited from being sent to the far-end switch for calls routed by ARS over a PRI trunk? If "Y", the TCM will not be sent; if "N", it will be sent.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

■ **NOTE:** The TCM will always be sent for calls routed by ARS over a PRI. This field should be set to "Y" when all of the following conditions are met to prevent an assert:

- The trunk is a PRI (TRKCLS = "EDSL" or "EDSLHM").
- The calls are routed by ARS over the PRI.
- An Interexchange Carrier is at the far-end of the PRI.
- The calls are leaving the private network (off-net).

6.35 RDTA GRP

Description: Is this trunk group a Remote Digital Test Access trunk group? RDTA uses the Remote Protocol Access feature to set up a connection on an ISDN line or trunk which is then used for testing.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If RDTA GRP is "Y", then

- the following fields on the TKGRP form must have these entries:

BRCS must be "N"

CBC must be "N"

DATA RATE must be entered

INSEP must be blank

PBX ID must not be entered

PRIVACY must not be "Y"

TRK DIR must be "2W" or "OUT"

TRKCLS must be "EDSL"

- and TRK DIR is "OUT", GLARE ACTION and BILL DN must not be entered.
- and TRK DIR is "2W", GLARE ACTION must be "ALLCTRL" or "NONECTRL".
- all corresponding TRUNK forms must have a BRCS entry of "N" and their DENs entered on the RDTAPORT form with the OE NUMBER field containing an OE TYPE of "D".
- the value of this TGN must not be entered on any MCRTIDX form (5304 Record) or any RTIDX form (5303 Record) as TRUNK GROUP NUMBER.

For 5E10 and later, when the TGN/MEMB(s) defined on the TRUNK form have RDTA GRP set to "Y" on its associated TKGRP form, BRCS must be set to "N" on the TRUNK form, and the value of DEN or NEN on the TRUNK form must be entered on an RDTAPORT form (as OE NUMBER) where OE TYPE is set to "D" or "N", respectively.

6.36 E911 CPN

Description: If this is an "EDSL" or "EDSLHM" trunk group, will it use the Calling Party Number instead of the trunk billing number for E911 queries? "Y" indicates that the Calling Party Number will be used; "N" indicates that the trunk billing number will be used.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When E911 CPN is "Y", TRK DIR must be "INC" or "2W", and TRKCLS must be "EDSL" or "EDSLHM".

7. FORM ENTRIES - 5202-6 RECORD

7.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

7.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

EDSL/PRI TRUNKS

7.3 CI DIAL

Description: Enter the Carrier Interconnect Dialing Permissions for this Trunk Group. If this field is left blank, the value "ALLOW" will be placed in the 5ESS Switch memory.

Software Release: 5E4(2) and later

Valid Entries:

Valid CI DIAL Entries	
Entry	Definition
ALLOW	Indicate that the customer is allowed to dial an FGD CAC (Carrier Access Code), or use a PIC (Presubscribed InterLATA Carrier) identification number if one is assigned, when making a Carrier Interconnect call.
DENY	Indicates that the customer is not allowed to dial a CAC. To make CI calls, the line must be assigned a PIC.
REQ	Indicates that the customer is required to dial a CAC when making a Carrier Interconnect call.
TALLOW	Same as ALLOW, but is used for a CI test line only.
TDENY	Same as DENY, but is used for a CI test line only.
TREQ	Same as REQ, but is used for a CI test line only.

7.4 PIC

Description: Enter the Presubscribed InterLATA Carrier ID to be assigned to this Trunk Group.

Software Release: 5E4(2) and later

Valid Entries:

For 5E9(1) and later: 0 - 9999

Data Rules:

If TRKCLS is "EDSL" and TRK DIR is "OUT", then this field must be blank.

For 5E9(2) - 5E11, if PIC is entered with a TRKCLS of either "EDSL" or "EDSLHM" and TRK DIR is not "SGNL", then the PIC must be defined on the IFC form as a CARRIER ID.

For 5E12 and later, when TKGRP forms have a TRKCLS of either "EDSL" or "EDSLHM", a TRK DIR that is not "SGNL", and the PIC field is entered, the PIC must be defined on the ICF form as CARRIER ID with FEAT GRP equal to "D".

7.5 PTC

Description: Enter the Presubscribed Intra-LATA Toll Carrier. The PTC field supports the Intra-LATA PIC secured feature. For more information on the Intra-LATA PIC feature see Division 2, Section 4A149.

Software Release: 5E9(1) and later

Valid Entries: 0 - 9999

Data Rules:

ICLATA is a secured feature that must be purchased by the office before the field can be entered, therefore the ACT field for SFID 149 must be set to "Y", before PTC can be entered.

7.6 PLC

Description: Enter the PLC (Presubscribed Local Carrier) code. The PLC field supports the Alternate Local Service Provider Routing feature. For more information on the Alternate Local Service Provider Routing feature, see Division 2, Section 4A269.

Software Release: 5E12 and later.
Valid Entries: Blank, or 0 - 9999.

Data Rules:

When PLC is entered, UNBUNDLED must be "Y".

When GRP TYPE is "SGNL", all the fields for the EDSL/PRI TRUNKS must not be entered and PLC must not be entered. UNBUNDLED must also be "N".

When PLC is entered, TRKCLS must be "EDSL" or "EDSLHM".

The PLC field on the TKGRP form must be defined as CARRIER ID on the ICF form with FEAT GRP equal to "D".

7.7 UNBUNDLED

Description: Has this line been unbundled from the LEC?

Software Release: 5E12 and later
Default: N
Valid Entries: Y, N

Data Rules:

When UNBUNDLED is "Y", PLC must be entered.

When GRP TYPE is "SGNL", UNBUNDLED must be "N".

When UNBUNDLED is "Y", TRKCLS must be "EDSL" or "EDSLHM".

7.8 DIR CON IC

Description: Is this PRI directly connected to an Inter Exchange Carrier?

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y,N

Data Rules:

When DIR CON IC is entered and TRKCLS is "EDSL" or "EDSLHM", TRK DIR must be "INC", "OUT" or "2W".

Before the DIR CON IC field can be set to "Y", the InterLATA Carrier's InterLATA Capability secured feature or the Alternate Service Provider secured feature or the InterLATA Carrier's InterLATA Capability secured feature must be purchased and the SFID 149 ACT field or the SFID 269 ACT field must be set to "Y" on the SFSYS form.

7.9 CPN BILLING

Description: Is Calling Party Number allowed to be used as billing number? The CPN BILLING field was added to support the CPN (Calling Party Number) Billing on PRI special feature. This field indicates whether

the CPN (Calling Party Number) provided from the far office in the SETUP message over a PRI should be used as the billing number in the AMA record. The default option is to use the BILLING DN assigned to the trunk group in the AMA record. The CPN must pass screening before it is used in the AMA record.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

"N" must be entered if TRKCLASS is not "EDSL" or "EDSLHM".

- **WARNING:** If CPN BILLING is "Y" and CPN SCRN is "N", screening of the Calling Party Number is not be performed.

7.10 ALLOW AMA

Description: Should AMA recording be allowed? The ALLOW AMA field is used to specify whether AMA recording is inhibited or allowed for unconnected unanswered calls. An unconnected unanswered call occurs when the calling party abandons the call before the called party answers. This field applies only to wideband calls.

Software Release: 5E10 and later

Default: N

Valid Entries: Y, N

Data Rules:

When ALLOW AMA is "Y", WB RATE must be entered.

7.11 ALW DATA ONLY

Description: Restrict origination to data calls only? The ALLOW DATA ONLY field is used to indicate whether a PRI trunk has restricted origination to data calls only. The ALW DATA ONLY field was added to support the Data Only PRI feature. This feature was first made available in a 5E10 Software Update. For more information on this feature, see Division 2, Section 4A206.

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ALW DATA ONLY is "Y", DATA RATE must be entered.

The Allow Data Only On This PRI Trunk feature is a Secured Feature that must be purchased by the office before data can be entered and/or changed for the ALW DATA ONLY field on the TKGRP form. The SFID 206 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before the ALW DATA ONLY field can be set to "Y".

7.12 ALW PRECEDENCE PARM

Description: Allow Precedence Parameter in outgoing ISUP IAM?

Default: N

Valid Entries: Y, N

7.13 STD RN SRC

Description: Are the PRI RN IE(s) (Primary Rate Interface Redirecting Number Information Elements) populated from SS7 ISUP OCN (Original Called Number), RN (Redirecting Number) and RI (Redirection Information) parameters? This field supports the Redirecting Number for PRI secured feature (SFID 161). For more information on this feature, see Division 2, Section 4A161.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered:

- UUI must be "Y"
- TRKCLS must be "EDSL" or "EDSLHM"

When TRK DIR is "SGNL", STD RN SRC must be "N".

7.14 RN SCR N

Description: This field indicates whether a Redirecting Number should be screened against a range(s) of numbers associated with the PRI (Primary Rate Interface) on originations, over the PRI for circuit switched voice, and circuit switched data calls. When an RN is received in the SETUP message on originations over a PRI, this indicator specifies whether it should be screened or not. Screening for the RN is similar to that of a user-provided CPN (Calling Party Number).

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When RN SCR N is "Y":

NPA SOURCE must be entered.

PBX/CPE ID must be entered.

PBX ID must match the PBX ID on the SCRNRNG form (5212 Record).

When RN SCR N, RN DISC, or RN BILLING is "Y":

TRRKCLS must be "EDSL" or "EDSLHM".

TRK DIR must be "INC" or "2W".

the ACT field for SFID 244 on the SFSYS form (5713-1 Record) must also be set to "Y".

7.15 RN DISC

Description: This field indicates whether a Redirecting Number should be discarded. If RN DISC is set to "Y", only the number received in the PRI RN IE that is not screened, or is screened and fails screening, will be discarded. If RN DISC is "N", the number in the PRI RN IE will not be discarded.

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

7.16 RN BILLING

Description: This field indicates whether a Redirecting Number should be used as a billing DN(Directory Number). If RN BILLING is set to "Y", and the number in the PRI RN IE passes screening (or is not screened with a 7 or 10 digit RN), the call will be billed against the number in the RN IE. If RN BILLING is set to "Y", and the number does not pass screening, the CPN billing will apply, if set. If RN BILLING is not set or is set to "N", existing PRI billing applies.

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

7.17 HM TAX

Description: Is there a tax for Hotel/Motel calls?

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When HM TAX is "Y" and TRKCLS is "EDSL", CBC must be "Y".

The ISDN PRI Hotel/Motel and Selected Class of Call Screening feature is a Secured Feature that must be purchased by the office before the HM TAX field on the TKGRP form can be set to "Y". A SFSYS form must exist with SFID 219 ACT set to "Y".

7.18 CNAM ALW

Description: Is Calling Name Delivery for PRI allowed? This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When CNAM ALW is "N", CNAM AMA must be "FLATRATE".

When CNAM ALW is "Y", TRK DIR must be "2W" or "OUT".

7.19 CNAM AMA

Description: Enter the Calling Name Billing option. This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Required Field.

Default: FLATRATE

Valid Entries:

Valid CNAM AMA Entries	
Entry	Definition
FLATRATE	Flatrate-rate billing
USAGESEN	Usage sensitive billing

Data Rules:

When CNAM AMA is "USAGESEN", a 10-digit BILLING DN must be entered.

7.20 PCN ALW

Description: Is privacy of Calling Name allowed? This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When PCN ALW is "N", PCN AMA must be "FLATRATE".

When PCN ALW is "Y", TRK DIR must be "2W" or "INC".

7.21 PCN AMA

Description: Enter the Privacy of Calling Name billing option. This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Required Field.

Default: FLATRATE

Valid Entries:

Valid PCN AMA Entries	

Entry	Definition
FLATRATE	Flatrate-rate billing
USAGESEN	Usage sensitive billing

Data Rules:

When PCN AMA is "USAGESEN", a 10-digit BILLING DN must be entered.

7.22 EDS CND

Description: Is Electronic Directory Service Calling Name Delivery allowed? This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When EDS CND is "Y", TRK DIR must be "2W" or "OUT".

When EDS CND is "Y", EDS GRP must be entered.

7.23 EDS GRP

Description: Enter the Electronic Directory Service group name. This field supports the Calling Name for ISDN PRI secured feature (SFID 220). For more information on this feature, see Division 2, Section 4A220.

Software Release: 5E11 and later.

Valid Entries: 1 to 8 characters

Data Rules:

When the TKGRP form has an entry in the EDS GRP field, a corresponding EDSGP form must exist where EDS GRP matches the EDS GRP on the TKGRP form.

The Calling Name for ISDN PRI is a Secured Feature that must be purchased by the office before the following TKGRP form field names CNAM ALW, CNAM AMA, PCN ALW, PCN AMA or EDS CND can be changed from their default values or an entry can be made in the EDS GRP field. A SFSYS form must exist with SFID 220 ACT set to "Y".

7.24 NPA SOURCE

Description: The NPA SOURCE field is used to indicate the numbering plan area code source of the CPN (Calling Party Number) to the PRI (Primary Rate Interface) trunk originating software. The NPA SOURCE is used on PRI trunk originations when the CPN is 7 digits and the NXX of the CPN is non-unique. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later.

Valid Entries:

Valid NPA SOURCE Entries	
Entry	Definition

BASENPA	use the base numbering plan area
CPN10DIGITS	the CPN on the incoming PRI trunk must always be 10 digits
FENPA	use the far end numbering plan area

Data Rules:

When CPN SCRIN is "Y", NPA SOURCE must be entered.

When NPA SOURCE is "FENPA", FAR END NPA must be entered.

When RN SCRIN is "Y", NPA SOURCE must be entered.

7.25 B CHAN NEG

Description: Is the "negotiation" of the B-channel allowed? This field allows the user to be connected to a different B-channel than the one offered when the 5ESS Switch offers a call over an ISDN PRI interface. For more information on this feature, see Division 2, Section 6K.

Software Release: 5E14 and later.

Default: N

Valid Entries: Y, N

7.26 PASS OLI

Description: Should the Originating Line Information be passed with the SETUP message to this termination? Required

Software Release: 5E14 and later

Default: N

Valid Entries: Y, N

Data Rules:

When PASS OLI is "Y", TRKCLS must be "EDSL" or "EDSLHM".

When PASS OLI is "Y", ACT must be "Y" for SFID 556 on the SFSYS form.

When PASS OLI is "Y", DCHAN DESIG on the TRUNK form must not be entered.

7.27 DISP CNTRL

Description: The DISP CNTRL field is used to define whether or not Calling Name is delivered using the Meridian NI-1 format Display Information Element instead of the Standard NI-3 Facility Information Element. This field supports the PRI (Primary Rate Interface) Calling Name for the Canadian Market feature. For more information on this feature, see Division 2, Section 4A604.

Software Release: 5E16 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When DISP CNTRL is "Y", TRKCLS must be "EDSL" or "EDSLHM".

7.28 SN TRK

Description: Proprietary field.

SSP800 TRUNKS

The following fields (Section 7.29 - Section 7.31) are available for 5E4(2) and later Software Releases, and are valid only with SSP (Service Switching Point) trunk groups. SSP trunks must have a TRK DIR of "INC" or "2W".

7.29 FAR END LATA

Description: An entry in this field provides the identity of the FAR END LATA. This designation is required for SSP (Service Switching Point) trunk groups. For non-SSP trunk groups, leave this field blank.

Valid Entries: 0 or 100 - 999

7.30 FAR END NXX

Description: An entry in this field provides the identity of the FAR END NXX code. This designation is required for SSP (Service Switching Point) trunk groups which serve a single NXX code.

Valid Entries: 200 - 999

Data Rules:

If this field is entered, then FAR END NPA and FAR END LATA must be entered. If the trunk group connects to an office which serves more than one NXX code, leave this field blank. For non-SSP trunk groups, leave this field blank.

7.31 COIN

Description: Is the SSP (Service Switching Point) traffic on the trunk group entirely COIN originated?

Data Rules:

If a "Y" is entered in this field, then FAR END LATA and FAR END NPA must be entered. If TRK DIR is "RAF", COIN must be either "N" or not entered.

RELEASE LINK

The fields (Section 7.32 - Section 7.33) apply to Release Link trunk groups.

7.32 RLT TYPE

Description: Enter the type of Hold for this trunk.

Required Field.

Default: NONE

Valid Entries:

Valid RLT TYPE Entries	
Entry	Definition
NONE	This trunk is not a RLT.
PERM	This RLT is not released when the terminating port answers (the attendant maintains control over the call

	with 50B or ISDN type consoles).
TEMP	This RLT is released when the terminating port answers (the attendant does not have control over the call after answer).

Data Rules:

When the value in this field is "PERM" or "TEMP", then TRK DIR must be "INC" or "2W" depending if this switch is at the main or branch of the Attendant arrangement.

When the value in this field is "PERM" or "TEMP", then TRKCLS must be "PFLASH", CUT THRU must be "N" or not entered, TRK DIR must be "2W", BRCS must be "Y" and INPULSING must be "TT".

When the value in this field is "PERM" or "TEMP" and TRK DIR is "2W", then on the associated TRUNK form(s) IN START DIAL must be "DLTN" and "OUT" START DIAL must be blank (Tie Trunk at a branch).

When the value in this field is "PERM" or "TEMP" and TRK DIR is "INC" and INPULSING is "DP", "MF", "TT", then on the associated TRUNK form(s) OUT START DIAL must be blank (Tie Trunk at a main).

When the value in this field is "PERM" or "TEMP" and TRK DIR is "INC" and INPULSING is "NONE", then on the associated TRUNK form(s) IN START DIAL must be "DIRC" and OUT START DIAL must be blank (FX Trunk at a main).

When the value of this field is "PERM" or "TEMP" and TRK DIR is "2W" and BRCS is "Y", then BRCS multiway features as defined on the MWFD form (5602 Record) and BRCS call waiting features defined on the CWTFD form (5614 Record) with INVOCATION of "ORIG" may be assigned to the trunk on a TKGRPFA form (5206 Record) or TRUNKFA form (5205 Record). Specific call waiting parameters may be specified on the CWTTPA form (5603-4 Record).

7.33 RLT FLASH

Description: Will a branch switch send flashes for called party disconnect? If RLT FLASH is "N", a branch switch will send flashes only for called party answer and calling party disconnect. This is used if the main switch is a 5ESS Switch with 50B or ISDN consoles.

There is limited signaling between a branch and the main location. Because 50B and ISDN attendant type consoles can only recognize a flash as called party answered, this value is set at the branch to control the type of flashes sent to the main switch.

Required Field

Default: N

Valid Entries: Y, N

Data Rules:

It can only be "Y" if RLT TYPE is "PERM".

MORE MISCELLANEOUS FEATURES

The following fields (Section 7.34 - Section 8.10) support miscellaneous features.

7.34 ACP SDN

Description: Is this a dedicated incoming trunk group to an SDN (Software Defined Network) at an ACP (Action Control Point)? Only a 5ESS Switch ACP (ACT PT SDN on the OFCOPT form is "Y") will be allowed

to have "Y" entered in this field.

Default: N

Valid Entries: Y, N

Data Rules:

When this field is "Y", TRK DIR must be "INC" or "2W", TRKCLS must be "CAMAANI", "CAMAONI", "EDSL", "LATA" or "PF", BRCS must be "N" and CBC must be "N".

When this field is "Y" and the TRKCLS is "PF", then the ANI field on the TRUNK form must be "Y". When this field is "Y" and TRKCLS is "PF" or "EDSL", then a 10-digit BILLING DN must be entered.

This field must be blank or "N" when DEDICATED SRV is entered.

For 5E6 and later, ACP SDN must be "N" when LN TYPE contains a value other than NULL.

CCS (Common Channel Signaling) may not have ACP SDN entered as "Y". If INPULSING or OUTPULSING is entered as "ISUP7" or "CCIS6", ACP SDN must not be entered or must be entered as "N".

7.35 SDN STAT GRP

Description: Is a SGD (Station Group Designator) to be forwarded from the originating PBX to the 5ESS Switch ACP in the Software Defined Network? The SGD is a digit at the end of the dialed digit string that indicates the group where the station belongs.

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", then TRKCLS must be "PF" and ACP SDN must be "Y".

7.36 SPA BILL DN

Description: Enter a 10-digit Special Access Customer billing telephone number. This field must be entered only for Special Access WATS and MEGACOM Trunk Groups (TRKCLS of "SPAWATS" or "SPAMEG") that are incoming to this office from a customer's PBX. This billing number is used to identify the service subscribed to by the Special Access customer.

Software Release: 5E5 and later

Valid Entries: a 10-digit telephone number NPA-0/1XY-XXXX.

SPA BILL DN Format	
For Special Access WATS (TRKCLS of "SPAWATS")	
Digits	Value
1 - 3	NPA of the customer
4	0 - no intrastate service is allowed 1 - full intrastate service is allowed
5	Reserved for future use
6	0 - no interstate service is allowed 1 - 6 - the interstate service band subscribed to by the customer
7 - 10	0 - 9. Used with the NPA to identify the customer.
SPA BILL DN Format	
For MEGACOM Service (TRKCLS of "SPAMEG")	

Digits	Value
1 - 3	NPA of the customer
4	0 - no intrastate service is allowed 1 - full intrastate service or permissive in-state routing is allowed. In-state routing allows a customer to place calls to NPAs within the same state as the customer premises as long as the calls do not originate from stations within that state.
5	9 - indicates that the customer has signed a letter of agreement for permissive in-state routing 0 - indicates no in-state routing
6	6 - indicates that interstate service band 6 is allowed.
7	0 - 9. Service mode identifier.
8 - 10	0 - 9. Used with the NPA to identify the customer.

Data Rules:

The NPA entered for this SPA Billing TN must be defined on a SPABS form (5319 Record).

7.37 SPA SUPV

Description: Will answer supervision be returned on this Special Access WATS or MEGACOM trunk group?

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

This field must be entered only for Special Access WATS and MEGACOM Trunk Groups (TRKCLS of "SPAWATS" or "SPAMEG"). This field must be entered for a Special Access WATS trunk group (TRKCLS of "SPAWATS"). This field must be "Y" for a MEGACOM trunk group (TRKCLS of "SPAMEG").

8. FORM ENTRIES - 5202-7 RECORD

8.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

8.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

MORE MISCELLANEOUS FEATURES

8.3 ANI6

Description: Should the ANI6 digits 6 or 06 be outpulsed? ANI6 indicates to the operator system that calls may require special screening. This capability provides the ability based on the originating Trunk Group or OUTWATS SFG to optionally outpulse ANI6 digits when making an OUTWATS SFG call or a trunk origination

when the trunk class of service is "PF", "PFITT", "PFLASH". Traditionally, ANI6 indicates that the call is from a Hotel/Motel customer.

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

If ANI6 is "Y": ANI7 must not be "Y"; TKRKCLS must be "PF", "PFITT", or "PFLASH"; TRK DIR must be "INC" or "2W"; and DATA RATE must not be entered.

8.4 ANI7

Description: Should the ANI7 digits 7 or 07 be outpulsed? ANI7 indicates to the operator system that calls may require special screening. Traditionally, ANI7 indicates that the call is from a coin phone.

This capability provides the ability based on the originating Trunk Group or OUTWATS SFG to optionally outpulse ANI7 digits when making an OUTWATS SFG call or a trunk origination when the trunk class of service is "PF", "PFITT", "PFLASH".

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

If ANI7 is "Y":

- ANI6 must not be "Y"
- TKRKCLS must be "PF", "PFITT", or "PFLASH"
- TRK DIR must be "INC" or "2W"
- DATA RATE must not be entered.

8.5 ANI TYPE

Description: This field is not used at this time and therefore no data can be entered. It may be used in a later software release.

8.6 PRIVACY

Description: Is the received directory number private? This field is an all-call privacy indicator. All-call privacy allows the calling party to prevent TN information from being displayed to the called party for all calls. This privacy may be deactivated by dialed code on a per call basis.

This field also applies to Network Interconnect calls entering an Access Tandem Office. When a call (and its billing number) arrives at an Access Tandem on an EAMF trunk and is routed out on a CCS7 trunk, the PRIVACY field determines whether the AT will mark the billing number's CCS7 presentation parameter "private".

This field also applies to an EDSL/PRI call.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

8.7 INTER SM TRK

Description: Is the trunk group an intermodule trunk group?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the intermodule trunks must be defined on the IMTRK form (5210 Record).

For more information on intermodule trunking, refer to the Inter-Module Trunking feature description in Division 2, Section 1N.

If "Y" is entered and DEST PT CODE is known, then DEST PT CODE must be in Intermodule Trunk format.

For 5E7 and later, if "Y" is entered and INPULSING or OUTPULSING is equal to "ISUP7", then the MEMBs of the matching TGNs on the TRUNK form must be on the same SM; SM is the first three digits of the TEN, DEN, or (for 5E9(2) and later) NEN.

INTER SM TRK must be "N" when TRKCLS is "INAISTRK".

8.8 MAI

Description: Enter the MAI (Mode of Access Indicator) which is used to indicate whether FGD (Feature Group D) access is "switched" or "direct". The MAI field supports the OSPS Feature Group D Incoming Signaling for Special Applications, Release 2 feature. For more information on this feature see Division 2, Section 4A373.

Software Release: 5E9(1) and later.

Required Field.

Default: S

Valid Entries:

Valid MAI Entries	
Entry	Definition
D	Direct - trunk group is connected directly to traffic originator.
S	Switched - trunk group is connected to a switched network.

8.9 API CODE

Description: Enter the API (Access Provider Identifier) code for a Feature Group D trunk group. The API CODE field supports the Feature Group D Incoming Signaling for Special Applications, Release 2 feature. For more information on this feature see Division 2, Section 4A373.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 9999

Data Rules:

API CODE must not be entered if FACILITY NBR is entered.

8.10 ASI PROXY

Description: Is the trunk group capable of carrying ASI Proxy traffic?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ASI PROXY equals "Y",

- TRKCLS must be "PFLASH", TRK DIR must be "OUT", and OUTPULSING must be "TT";
- All associated TRUNK forms must have OUT START DIAL equal to either "IMED" or "WINK";
- The associated RTIDX form (having TRUNK GROUP NUMBER defined on this TKGRP form) must have ROUTE TYPE equals "HUNT".

ISDN ATTENDANT

The following fields (Section 8.11 - Section 8.14) are applicable to ISDN Attendant trunk groups, available with 5E4(2) and later Software Releases.

8.11 MK BUSY

Description: Is Selective Customer Control of Facilities is on? This feature allows the attendant to deny access to a privately owned trunk group by making the trunk group busy.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E9(1) and later, MK BUSY must be blank if TRKCLS is "RMSD3" or "TOPAS".

For 5E11 and later, when MK BUSY is "Y":

ISAT MLHG must be entered.

MAKE BUSY KEY must not be entered.

8.12 BW LAMP

Description: Are trunk group busy warning lamp(s) provided for this group on the attendant's console? If "Y" is entered, the lamp will light whenever the threshold of idle members in a Trunk Group is less than or equal to

the threshold value entered in the WARN THRESH field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", then ISAT MLHG must be entered.

8.13 ISAT MLHG

Description: Enter the ISDN Attendant MLHG that can busy monitor this trunk group.

Valid Entries: For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

If an ISAT MLHG is entered, it must be defined on a MLHG form with a MLHG FEATURE associated with a HUNT TYPE of "ISAT".

8.14 WARN THRESH

Description: Indicate the threshold of members of this group that must be idle at any given time before the trunk group busy warning lamp(s) will light at the attendant's console.

Valid Entries: 0 - 1952

LEASED NETWORK

The following Leased Network fields (Section 8.15 - Section 8.18) are available with 5E6 and later Software Releases. For more information on the Leased Network feature, see Division 2, Section 1O.

8.15 LN TYPE

Description: The LN TYPE indicates if the trunk group is on a Leased Network and if it queries the NCP (Network Control Point) database for routing and charging information for incoming calls. Enter the LN (Leased Network) Trunk Type.

Default: NONE

Valid Entries:

Valid LN TYPE Entries	
Entry	Definition
QRY	A Leased Network trunk that queries the NCP database.
NOQRY	A Leased Network trunk that does not query the NCP database.
IMT	A Leased Network Inter-Machine trunk, a trunk that connects two switches within the Leased Network.
NONE	Not a Leased Network trunk.

Data Rules:

When LN TYPE is "QRY", the following restrictions apply:

- If QUEUE ALLOWED is "Y", TRKCLS must be "PF", "PFLASH", "LATA", "TTOLLCON" or "EDSL".
- If TRKCLS is "PF" or "EDSL", then BILLING DN must be 10 digits.
- If OUTPUTSING or INPUTSING is "ISUP7", then TRKCLS must be "LATA", "PF" or "TTOLLCON", and

BRCS must be "Y".

- If OUTPUTSING or INPUTSING is "DP", "MF", "TT", "RPEO" or "RPTO", then TRKCLS must be "PF", "PFLASH", "LATA" or "CAMAANI", and BRCS must be "Y".
- When TRK DIR is "INC", and INPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".
- When TRK DIR is "OUT", and OUTPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".
- When TRK DIR is "2W", and INPUTSING or OUTPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".

When LN TYPE is "NOQRY", the following restrictions apply:

- If QUEUE ALLOWED is "Y", TRKCLS must be "EDSL", "PFLASH" or "PF".
- If OUTPUTSING or INPUTSING is "DP", "MF", "TT", "RPEO" or "RPTO", then TRKCLS must be "PF" or "PFLASH", and BRCS must be "Y".
- When TRK DIR is "INC", and INPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".
- When TRK DIR is "OUT", and OUTPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".
- When TRK DIR is "2W", and INPUTSING or OUTPUTSING is not entered or is entered as "DCHN" or "NONE", then TRKCLS must be "EDSL", and BRCS must be "Y".

When LN TYPE is "IMT", the following restrictions apply:

- If QUEUE ALLOWED is "Y", TRKCLS must be "PFITT".
- If OUTPUTSING or INPUTSING is entered as "ISUP7", then TRKCLS must be "PFITT", and BRCS must be "Y".
- If OUTPUTSING or INPUTSING is "DP", "MF", "TT", "RPEO" or "RPTO", then TRKCLS must be "PFITT", and BRCS must be entered as "Y".

When LN TYPE is "NONE" or is not entered, the following restrictions apply:

- If OUTPUTSING or INPUTSING is "ISUP7", then TRKCLS must be "TTOLLCON", "PRINTOLL", "SCINTOLL", "BVINTOLL", "BVTOLLCM", "IC", or "LATA", and BRCS must be "N".

LN TYPE cannot be "NOQRY" when OUTPUTSING or INPUTSING is "ISUP7".

When the following restrictions on the TKGRP form refer to an assigned ATH (Authorization Code) feature or ARS feature, they imply assignment on a TRKGRPFA, TRUNKFA or CLUSTR form. Parameter values for these forms are defined on either the associated feature definition (FD) form or a parameter (PA) form. BRCS parameter forms override feature definition forms. An "EDSL" trunk group and its member trunks can

be assigned ATH (Authorization Code) features only if the trunk group is a Leased Network group that does not query a Network Control Point database (LN TYPE "NOQRY").

When a Leased Network trunk group (LN TYPE "QRY", "NOQRY" or "IMT"), or one of its members, is assigned both an ATH (Authorization Code) feature and an MDR feature, the ATH FOR MDR on the associated ATHTPA or ATHFD form must be "N".

When a trunk group that does not belong to a Leased Network (LN TYPE "NONE" or blank), is assigned an MDR (Message Detail Recording) feature, the TRKCLS on this form may not be "LATA" or "CAMAANI".

When a trunk group belongs to a Leased Network (LN TYPE "QRY", "NOQRY" or "IMT"), and has INPULSING "ISUP7", then it must have at least one trunk assigned on the TRUNK form. The trunk group or one of its members must be assigned an ARS feature, and the TCM IN field on the associated ARSTPA or ARSFD form must be left blank. Similarly, if the trunk group has OUTPULSING "ISUP7", the TCM OUT field must be blank. If the LN TYPE is "QRY", the DIAL PLAN field on the ARSTPA or ARSFD form must be "ODP".

When an "EDSL" trunk group is not a Leased Network group (LN TYPE "NONE" or blank), and the group or one of its member trunks is assigned an ARS feature, the QUEUE ALLOWED field on the associated ARSTPA or ARSFD form must be "N".

When a trunk group is assigned an ARS feature, and the QUEUE ALLOWED field on the associated ARSFD form is "Y", the TRKCLS on this form must be "PF", "PFLASH", "PFITT", "EDSL", "LATA", "CAMAANI" or "TTOLLCON".

When a trunk group or one of its members is assigned an ARS feature, and the QUEUE ALLOWED field on the associated ARSTPA or ARSFD form is "Y", then:

- if the trunk group's TRKCLS is "EDSL", it must be a Leased Network access trunk group (LN TYPE "QRY" or "NOQRY").
- if the TRKCLS is "LATA", "CAMAANI" or "TTOLLCON", the LN TYPE must be "QRY".

When a trunk group or one of its members is assigned an ARS feature, and the trunk group has LN TYPE:

- "NONE" (or blank), then the TRKCLS must be "PF", "PFITT", "PFLASH", "EDSL" or "EDSLHM".
- "QRY", then the TRKCLS must be "PF", "PFLASH", "LATA", "CAMAANI", "EDSL", or "TTOLLCON".
- "NOQRY", then the TRKCLS must be "PF", "PFLASH" or "EDSL".

When a trunk group has LN TYPE "QRY" or it has LN TYPE "IMT" with INPULSING "ISUP7", then if the trunk group or one of its members is assigned an ARS feature, the CSV ARS GRP must not be entered on the corresponding ARSTPA or ARSFD form. Also, the trunk group and its members may not be assigned an ATH feature.

When a trunk group has LN TYPE "QRY" and is assigned an ARS feature, the following fields on the ARSTPA or ARSFD form must be entered as "N": ALT FRL, RLT FRL IND and RLT AMA IND. The Leased Network ACP retrieves this information from the NCP.

When a trunk group has LN TYPE "QRY", TRK DIR "INC" or "2W", and for 5E8 and later, INPULSING other than "ISUP7" and "CCIS6", then it must have at least one trunk member defined on the TRUNK form. There must be one TIMING form with the trunk group's TRKCLS and INPULSING and the trunk's IN START DIAL.

When an "EDSL" trunk group has LN TYPE "NOQRY", and TRK DIR "INC" or "2W", it must have at least one trunk member defined on the TRUNK form. There must be one TIMING form with SERVICE CLASS "EDSL", START SIGNAL "NONE" and SIGNAL TYPE "DCHN".

When LN TYPE is "QRY", "NOQRY", or "IMT", the trunks in this trunk group may not reside on an SM with a basic configuration, i.e. for each trunk in this group, the first three digits of the TEN, DEN, SLEN, or (for 5E9(2) and later) NEN on the TRUNK form must be an SM defined on an EQIM form where the CONFIGURATION field is not "BASIC".

8.16 LN VIRT

Description: Is this a Leased Network virtual on-net trunk group?

Required Field.

Default: N

Data Rules:

For virtual on-net calls, the Leased Network Trunk type must be "QRY". If LN VIRT is "Y", LN TYPE must be "QRY".

8.17 LN GROUP

Description: This field is the Leased Network group name, used to define a set of ARS (Automatic Route Selection) Groups which share a Trunk Group, in particular, an LN CCS7 interoffice trunk group.

Valid Entries: 1 to 8 characters

Data Rules:

If an LN GROUP is entered, it must be defined on an LNARSGD form (5214 Record).

For LN trunk groups that query the NCP (Network Control Point) and for LN interoffice trunk groups with CCS7 impulsing, LN GROUP must be entered. That is, if LN TYPE is entered as "QRY", or if LN TYPE is entered as "IMT" with INPULSING "ISUP7", LN GROUP must be entered.

If LN TYPE is entered as "IMT" and the associated INPULSING is not "ISUP7", or if LN TYPE is entered as "NOQRY" or is not entered, LN GROUP must not be entered.

8.18 LN CRIT Q

Description: Will an outgoing trunk group support critical user queuing? The field is used in call processing only when the incoming trunk is defined as a Leased Network trunk. "Y" indicates that a Leased Network incoming trunk may queue for this trunk only if the incoming trunk is defined as a Leased Network critical user, i.e. FRL (Facility Restriction Level) is 14. "N" indicates that all Leased Network incoming trunks may queue for this trunk.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When LN CRIT Q is entered as "Y", QUEUE FEATURE must be entered, and both QUEUE ALLOWED and ENQUEUE ACT must be "Y".

When LN CRIT Q is "Y", QUEUE FEATURE must be defined on a QUFD form (5617-1 Record) with QUEUE TYPE "OFFHK".

ENHANCED 911

The following fields (Section 8.19 - Section 8.30) apply only to the E911 feature. For information regarding E911, see Division 2, Section 1BD.

8.19 E911 TYPE

Description: Enhanced 911 Trunk Type. This field describes the kind of E911 support this Trunk Group will provide.

Software Release: 5E7 and later

Required Field.

Default: NONDED

Valid Entries:

Valid E911 TYPE Entries	
Entry	Definition
NONDED	Non-dedicated trunk group. E911 calls incoming over this trunk group will be counted against the E911 trunk SFG limit. The E911 TRK SFG is specified on the OFCOPT form (5509 Record) and defined on the PFASFG form (5609-3 Record).
PBXNONDED	Non-dedicated PBX trunk group. E911 calls incoming over this trunk group will be counted against the E911 line SFG limit. The E911 LN SFG is specified on the OFCOPT form and defined on the PFASFG form.
DED	E911 dedicated trunk group.
DIRANI	E911 dedicated direct connect trunk group with ANI. The dialed digits are not transmitted.
DIRNOANI	E911 dedicated direct connect trunk group without ANI. Neither the dialed digits nor the ANI digits are transmitted.
1ANPD	E911 trunk type that handles 911 calls incoming to a 5ESS Switch from a 1A ESS Switch.
TNDM_TNDM	E911 dedicated tandem to tandem trunk. TNDM_TNDM assigned to an incoming ISUP7 TG at the terminating E911 Tandem Switch allows the called DN (in the ISUP7 IAM) to be used for routing to the Primary PSAP.
WLNONDED	Non-dedicated wireless E911 trunk type to allow an ISUP7 trunk group as a non-dedicated wireless E911 connection. This provisioning allows, for a wireless E911 call, the use of digit analysis for the digits in the Called Party Number field in ISUP7 IAM (Initial Address Message) to route the call instead of by-passing digit analysis.

Data Rules:

When E911 TYPE is "DED", "DIRANI", or "DIRNOANI", TRK DIR must be "INC" and ESCO must be entered.

When E911 TYPE is "DIRANI" or "DIRNOANI", TRKCLS must be "CAMAANI"; members of the trunk group may not have an IN START DIAL of "DIRC" on the TRUNK form.

For 5E11 and later, if E911 TYPE is "DED", "DIRANI" or "DIRNOANI", it is recommended that AML ALARM be set to "CRITICAL".

When E911 TYPE is "DED", TRKCLS must be "CAMAANI", "LTOLLCON", or "TTOLLCON". If TRKCLS is "LTOLLCON" or "TTOLLCON", INPULSING must be "ISUP7".

For 5E12 and later:

- When E911 TYPE is "1ANPD", "DED", "DIRANI", or "DIRNOANI", TRK DIR must be "INC" and ESCO must be entered.
- When E911 TYPE is "1ANPD", "DIRANI", or "DIRNOANI", TRKCLS must be "CAMAANI".
- When E911 TYPE is "1ANPD", "DIRANI", or "DIRNOANI", and CH IN START is "Y", IN START DIAL must not be "DIRCON".
- When TRK DIR is not "2W", "OUT", or "ANN", or TRK DIR is "INC" and E911 TYPE is not "1ANPD", "DED", "DIRANI", "DIROANI", or TNDM_TNDM then AML PERCENT must not be entered.

When E911 is TNDM_TNDM:

- TRK DIR must be "INC",
- TRKCLS must be "LTOLLCON" or "TTOLLCON",
- INPULSING must be "ISUP7",
- ESCO must be entered.

The SFID 330 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before the E911 TYPE field can be set to "TNDM_TNDM".

Tandem to Tandem E911 is a secured feature requiring that the ACT field for SFID 330 be set to "Y" on the SFSYS form (5713-1 Record) to enable the feature. The ACT field for SFID 61 must be set to "Y" to activate the Enhanced E911 secured feature before the ACT field for SFID 330 can be set to "Y".

For 5E13 and later:

When E911 TYPE is "WLNONDED",

- TRKCLS must be "LTOLLCON" or "TTOLLCON".
- INPULSING must be "ISUP7", "NONE", or not entered.
- OUTPULSING must be "ISUP7", "NONE", or not entered.

When E911 TYPE is "WLNONDED" and OUTPULSING is "NONE" or not entered, INPULSING must be "ISUP7".

When E911 TYPE is "WLNONDED" and INPULSING is "NONE" or not entered, OUTPULSING must be "ISUP7".

The SFID 298 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before the E911 TYPE field on the TKGRP can be set to "WLNONDED".

8.20 ESCO

Description: Emergency Service Central Office Number. This field identifies the originating office or calling area of an E911 caller. It is used to retrieve an ESN (Emergency Service Number) which determines routing and selective transfer information for the E911 call.

When a 911 call arrives at the E911-serving office on a trunk group not assigned an ESCO, the call is associated with an ESCO from the DAS form (5300-1 Record).

Software Release: 5E7 and later

Valid Entries: 1 - 999

Data Rules:

ESCO must be defined on an ESCO form (5541 Record).

8.21 CAMA PSAP

Description: Is this Trunk Group a link to a CAMA PSAP (Centralized Automatic Message Accounting Public Safety Answering Point)?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When CAMA PSAP is "Y", other fields on this TKGRP form must be set according to the following table.

Field Name	Entry
ABND TIMER	must be entered
BILLING DN	should be entered
BW LAMP	"N" or blank
CAMA PSAP	"Y"
COIN	"N" or blank
CUT THRU	"N" or blank
DATA RATE	blank
E911 TYPE	"NONDED"
ENQUEUE ACT	"Y" or blank
ESCO	blank
FAR END LATA	blank
HUNT TYPE	"2WF", "2WB", or "FIFO"
IMPULSING	"TT"
INTER SM TRK	"N"
ISAT MLHG	blank
LN TYPE	"NONE" or blank
OUTPULSING	"MF"
PBX ID	blank
QUEUE ALLOWED	"N" or blank
QUEUE FEATURE	blank
RLT TYPE	"NONE"
TRK DIR	"2W"
TRKCLS	"PFLASH"
UNRES EA	"N"
WINK START	must be entered

If "Y" is entered, then:

- each trunk in this trunk group must be defined on a TRUNK form with ANI set to "N", IN START DIAL "DLTN", OUT START DIAL "WINK", IDLE STATE "ON", and ANSWER DELAY TIMING "N" or blank.
- the members of the trunk group may be assigned IDP, MW, and SC features via a TRUNKFA, TKGRPFA, or associated CLUSTR form; they may not be assigned ARS, ATH, ACCT, PFA, PP, MDR, TGSR, or TOD features. For an explanation of feature interactions on PSAP trunks, see "E911

Emergency Service" in the **5ESS Switch Local and Toll System Features** document, 235-190-115.

When CAMA PSAP is "Y" and a value is entered in the ATTTN field, then ATTTN must match the AUTOMATIC TRUNK TEST TABLE NUMBER on an AUTO form (5505-1/2 Record) where AUTOMATIC PROGRESSION TEST TYPE is "PB", the PERMANENT BUSY test value is 8, and other test values are blank.

8.22 ENH PSAP SIG

Description: The Enhanced Public Safety Answering Point Signaling field indicates whether or not the trunk designated as a CAMA (Centralized Automatic Message Accounting) PSAP uses enhanced CAMA signaling.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ENH PSAP SIG is "Y", CAMA PSAP must be "Y".

When ENH PSAP SIG is "Y", the ACT fields for both SFID 61 and SFID 299 on the SFSYS form must be "Y".

When ENH PSAP SIG is set to "Y" and ATTTN matches the AUTOMATIC TRUNK TEST TABLE NUMBER on the AUTO form, AUTOMATIC PROGRESSION TEST TYPE must be "PB", PERMANENT BUSY TEST must be "48", and all other test values on this AUTO form must be blank.

When ENH PSAP SIG is "N", CAMA PSAP is "Y", and ATTTN matches the AUTOMATIC TRUNK TEST TABLE NUMBER on the AUTO form, the AUTOMATIC PROGRESSION TEST TYPE must be "8", and all other test values must be blank on this AUTO form.

8.23 TEN DIG ONLY

Description: The Ten Digit Only field is used to support the Wireless E911 feature. See Division 2, Section 4A298.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When TEN DIG ONLY is "Y", ENH PSAP SIG must be "Y".

8.24 PSAP RERTE TN

Description: Public Safety Answering Point Reroute Telephone Number. This field is a 7- or 10-digit telephone number used to reroute calls that terminate to a busy PSAP. A PSAP may be busy because of traffic or because the customer or PSAP has activated a make busy key assigned to the PSAP trunk group.

The MAKE BUSY KEY, PSAP RERTE TN, and RERTE ACT fields determine whether or not call forwarding options will be assigned to the PSAP trunk group. Three options are available.

- Night service and/or power failure call forwarding only. This feature forwards calls to the RERTE TN only if a scan point specified in the MAKE BUSY KEY is activated due to night service or a PSAP power failure. To provision this feature a 7- or 10-digit telephone number must be entered in the RERTE TN field, a scan point number must be entered in the MAKE BUSY KEY field, and RERTE ACT must be "N".
- Traffic-busy forwarding only. This feature forwards calls to the RERTE TN only if the PSAP is traffic-busy. To provision this feature, a 7- or 10-digit telephone number must be entered in the RERTE TN field, the MAKE BUSY KEY field must be blank, and RERTE ACT must be "Y".
- Night service/power failure and traffic-busy forwarding. This feature forwards calls to the RERTE TN if either the scan point specified in the MAKE BUSY KEY is activated (night service or power failure), or the PSAP is traffic-busy. To provision this feature a 7- or 10-digit telephone number must be entered in the RERTE TN field, a scan point number must be entered in the MAKE BUSY KEY field, and RERTE ACT must be "Y".

These features take precedence over E911 alternate routing. If the switch attempts but fails to complete an E911 call to the primary PSAP (specified in the caller's ESN form), it determines if it should route to the PSAP RERTE TN. If rerouting fails or is not required, the switch then routes to an alternate PSAP TN specified in the ESN form.

NOTE: The PSAP RERTE TN will only be used if the NEXT ROUTE on the ODA (Office Data Administration) form (5304 Record) or NEXT RTI on RCV (Recent Change View) 10.2 for the RTI (Route Index) for this PSAP (Public Safety Answering Point) trunk group is set to zero.

Software Release: 5E7 and later

Valid Entries: 7 or 10 digits

Data Rules:

PSAP RERTE TN is only applicable for trunk groups with CAMA PSAP set to "Y". When PSAP RERTE TN is entered, CAMA PSAP must be "Y".

8.25 RERTE ACT

Description: Reroute Activation. Is reroute allowed for a busy PSAP? If this field is "Y", the PSAP RERTE TN will be used if a call terminates to a busy PSAP.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field is applicable only for trunk groups where CAMA PSAP is "Y" and PSAP RERTE TN is entered. When RERTE ACT is "Y", PSAP RERTE TN must be entered.

8.26 WINK START

Description: Wink Start Timer. This field indicates the number of seconds the switch will wait for the PSAP to send a start outpulsing signal (a wink). The recommended value for this field is 16.

If CAMA PSAP is "Y" and WINK START is not entered, the software will set WINK START to 16.

Software Release: 5E7 and later

Valid Entries: 4 - 20 (seconds)

Data Rules:

This field is only applicable for trunk groups with CAMA PSAP set to "Y". When WINK START is entered, CAMA PSAP must be "Y".

8.27 ABND TIMER

Description: This field indicates the number of seconds the switch will keep a PSAP trunk unavailable after a caller abandons a 911 call. The recommended value for this field is 18.

If CAMA PSAP is "Y" and ABND TIMER is not entered, the software will set ABND TIMER to 18.

Software Release: 5E7 and later

Valid Entries: 0 - 31 (seconds)

Data Rules:

This field is only applicable for trunk groups with CAMA PSAP set to "Y". When ABND TIMER is entered, CAMA PSAP must be "Y".

8.28 BCLID FEATURE

Description: Enter the BCLID (Bulk Calling Line ID) feature name. (See Division 2, Section 1Y for more information on BCLID)

Software Release: 5E8 and later

Valid Entries: 1 - 8 characters

Data Rules:

If this field is entered:

- TRKCLS must be "EDSL", "EDSLHM", "PBXDID", "PF", "PFLASH", or "PFITT", and
- BILLING DN must be 10 digits long.

BCLID FEATURE must be entered if BILLING DN is entered and TRKCLS is "PBXDID".

If this field is entered, then:

- this feature must be defined as a feature on the BCLIDFD form, and
- if BCLID GRP is not entered, then BCLID GRP on the BCLIDFD form must be specified.

8.29 BCLID GRP

Description: Enter the BCLID (Bulk Calling Line ID) group name.

Software Release: 5E8 and later
Valid Entries: 1 - 8 characters

Data Rules:

If BCLID GRP is entered then BCLID FEATURE must be entered.

If BCLID GRP is entered, then it must match a BCLID GRP entry on the BCLIDGP form (5629-2 Record).

8.30 OUTAGE RPT

Description: This field allows the emergency service personnel the ability to designate specific trunk groups to be monitored for 100% OOS (Out of Service) conditions.

Software Release: 5E11 and later
Valid Entries: Y, N

Data Rules:

When OUTAGE RPT is "Y", the ACT field on the SFSYS form (5713-1 Record) must be "Y" for SFID 293 or SFID 294.

PACKET SWITCHING

The following fields (Section 8.31 - Section 8.33) define Packet Switching trunk attributes.

8.31 NBR PLAN

Description: The NBR PLAN field indicates the Numbering Plan Mode of the X.75 and X.75' interfaces. For 5E6, NBR PLAN replaces the X75P MODE field.

Software Release: 5E6 and later
Required Field
Default: NONE

NOTE: For 5E8 and later, the only valid mode of interworking between numbering plans is Escape Code.

Valid Entries:

Valid NBR PLAN Entries	
Entry	Definition
X121 or X	Software Release: 5E8 and later Indicates that X.121 is the native numbering plan and that the escape code mode of operation is in use.
E164 or E	Software Release: 5E8 and later. Indicates that E.164 is the native numbering plan and that the escape code mode of operation is in use.
NONE	Trunks that are neither X75 nor X75' must have this value.

Data Rules:

If TRKCLS is not "X75" or "X75P", then X75P MODE must be "NONE".

For 5E8 and later, if TRKCLS is "X75" or "X75P", then NBR PLAN must be "X121" or "E164".

8.32 NEXT PSN

Description: Enter the PSN (Packet Switch Number) of the next switch which is directly connected to this switch via an IP (Internal Protocol) trunk group. Only one IP trunk group can connect two switches, therefore, the PSN entered in this field must not be assigned to another IP trunk group. The PSN entered in this field must not be the PSN of this switch which is defined on the ISDNOPT form (5941 Record) in the PSN field.

Software Release: 5E5 and later

Valid Entries: 1 - 255

Data Rules:

This field must be entered when TRKCLS is "PACKET", otherwise, this field must be blank.

8.33 PKT MODULE

Description: This field appears only on the Recent Change view and identifies the Switching Module where packet switching trunk members reside. For non-packet switching trunk groups, PKT MODULE should be set to zero.

Packet switching trunk groups have TRKCLS set to "PACKET", "X75", or "X75P". For "PACKET" trunk groups, all trunk members must reside on the same SM, and PKT MODULE must contain the SM number.

For "X75" and "X75P" trunk groups, if the trunk members reside on more than one non-remote SM, PKT MODULE must be zero. If an "X75" or "X75P" trunk group contains trunk members on a remote SM, then all trunk members must reside on that SM, and PKT MODULE must be set to the SM number.

LEVEL 2 THRS

The following fields (Section 8.34 - Section 8.36) are valid with 5E5 and later Software Releases. These fields contain the threshold values used by Level 2 error handling for X.75' and IP trunk groups. These fields must be entered when the TRKCLS is "PACKET" or "X75P".

8.34 FCS

Description: Indicate the threshold value for the ratio of frames received with a bad FCS (Frame Check Sequence) to the total number of frames received.

Valid Entries: 0 - 5

8.35 SABM

Description: Indicate the threshold value for the maximum number of SABM (Set Asynchronous Balanced Mode) frames received in a 30-second period.

Valid Entries: 0 - 10

8.36 PROT VIOL

Description: Indicate the threshold value for the maximum number of Level 2 protocol violations detected in a 30-second period.

Valid Entries: 0 - 100

9. FORM ENTRIES - 5202-8 RECORD

9.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

9.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

X.75 TRUNKS

The following fields (Section 9.3 - Section 9.11) define X.75 trunk groups.

9.3 REMOTE DNIC

Description: Enter the Data Network Identification Code to be associated with the remote end of this X.75 trunk group. Packet routing is based on the RPOA DNIC if the RPOA utility is present in the route request message. If the utility is not present, packet routing is based on the called address.

Software Release: 5E6 and later

Valid Entries: 1 - 9999

Data Rules:

If "X75" is not entered, REMOTE DNIC must be left blank.

9.4 SEGMENT SIZE

Description: Enter X.75 Internetwork AMA Segment size. This field is used to determine the number of segments in AMA billing records. This field can only be entered for X.75 trunk groups. If this field is not entered for X.75 trunk groups, a default value of 64 will be automatically assigned to this trunk group.

Software Release: 5E8 and later

Valid Entries: 16, 64, 128 or 256 (octets)

Data Rules:

If SEGMENT SIZE is entered, TRKCLS must be "X75".

9.5 CUG LIST ID

Description: Enter the X.75 CUG (Closed User Group) List ID. This field is used to assign a Closed User Group List to this X.75 trunk group and can only be entered for X.75 trunk groups.

Software Release: 5E8 and later

Valid Entries: 1 - 1600

Data Rules:

If CUG LIST ID is entered, TRKCLS must be "X75".

If CUG LIST ID is entered on the TKGRP form, then it must be defined on the X75CUG form (5930 Record).

9.6 CUG SCRNL

Description: Is X.75 CUG (Closed User Group) screening allowed?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CUG SCRNL is "Y", then:

- TRKCLS must be "X75", and
- CUG LIST ID must be entered.

If TGN/MEMB(s) defined on the TRUNK form (5204 Record), correspond to a TGN defined on the TKGRP form where TRKCLS is "X75" and CUG SCRNL is "Y", then CUG or CUG OUTGOING must be "Y" or unknown on the TRUNK form.

9.7 ILC SCRNL

Description: Enter the type of screening for X.75 IntraLATA Competition. If this field is set to "ON" and the RPOA (Registered Private Operating Facility) utility on the X.75 trunk is provisioned, then the packet trunk call arriving at the X.75 interface may be screened (depending on how the ILC field on the ISDNOPT form (5941 Record) is entered) as an X.75 interface. If this field is set to "OFFTR" and the RPOA utility on this X.75 trunk is provisioned, then the switch will honor the RPOA that is in the CRP (Call Request Packet) regardless of the ILC field entry on the ISDNOPT form. If this field is set to "OFFDN" and both the RPOA utility and the IECP utility are not present in the CRP, then the call is routed based on the directory number in the CRP.

Software Release: 5E8 and later

Valid Entries:

Valid ILC SCRNL Entries	
Entry	Definition
ON	ILC Screening is active and TR301 compliant.
OFFTR	ILC Screening is inactive and TR448 compliant.
OFFDN	ILC Screening is inactive and is not TR448 Compliant.

Data Rules:

ILC SCRNL may only be entered if TRKCLS is "X75".

9.8 NUI IN VFY

Description: Enter the treatment for X.75 Packet Switching NUI (Network User ID) incoming verified calls. The NUI provides the supplementary network user identification for charging the virtual call usage. When this field is set to "PASS" the switch will transmit the CRP (Call Request Packet) as is. When this field is set to

"CLEAR", the switch clears the CRP containing the NUI utility. When this field is set to "DELETE", the switch removes the NUI utility from the CRP before delivering the call set-up packet. If this field is not entered for X.75 trunk groups (TRKCLS is "X75"), an internal default of "PASS" is automatically assigned.

Software Release: 5E8 and later

Valid Entries:

Valid NUI IN VFY Entries	
Entry	Definition
CLEAR or C	Clear the packet call containing the NUI ID.
DELETE or D	Delete the NUI ID.
PASS or P	Pass the NUI ID.

Data Rules:

If NUI IN VFY, NUI IN UNVFY, NUI OUT VFY, or NUI OUT UNVFY is entered, TRKCLS must be "X75".

9.9 NUI IN UNVFY

Description: Enter the treatment for X.75 Packet Switching NUI (Network User ID) incoming unverified calls. The NUI provides supplementary network user identification for charging the virtual call usage. When this field is set to "PASS", the switch transmits the CRP (Call Request Packet) as is. When this field is set to "CLEAR", the switch clears the CRP containing the NUI utility.

If this field is not entered for X.75 trunk groups, an internal default of "CLEAR" is automatically assigned.

Software Release: 5E8 and later

Valid Entries:

Valid NUI IN UNVFY Entries	
Entry	Definition
CLEAR or C	Clear the packet call containing the NUI ID.
PASS or P	Pass the NUI ID.

Data Rules:

If NUI IN VFY, NUI IN UNVFY, NUI OUT VFY, or NUI OUT UNVFY is entered, TRKCLS must be "X75".

9.10 NUI OUT VFY

Description: Enter the X.75 Packet Switching NUI (Network User ID) treatment for outgoing verified calls. The NUI provides supplementary network user identification for charging the virtual call usage. When this field is set to "PASS", the switch transmits the CRP (Call Request Packet) as it is. When this field is set to "CLEAR", the switch clears the CRP containing the NUI utility. When this field is set to "DELETE", the switch removes the NUI utility from the CRP before delivering the call set-up packet.

If this field is not entered for X.75 trunk groups (TRKCLS is "X75"), an internal default of "PASS" is automatically assigned.

Software Release: 5E8 and later

Valid Entries:

Valid NUI IN VFY Entries	
Entry	Definition
CLEAR or C	Clear the packet call containing the NUI ID.
DELETE or D	Delete the NUI ID.
PASS or P	Pass the NUI ID.

Data Rules:

If NUI IN VFY, NUI IN UNVFY, NUI OUT VFY, or NUI OUT UNVFY is entered, TRKCLS must be "X75".

9.11 NUI OUT UNVFY

Description: Enter the treatment for X.75 Packet Switching NUI (Network User ID) outgoing unverified calls. The NUI provides supplementary network user identification for charging the virtual call usage. When this field is set to "PASS", the switch transmits the CRP (Call Request Packet) as is. When this field is set to "CLEAR", the switch clears the CRP containing the NUI utility.

If this field is not entered for X.75 trunk groups (TRKCLS is set to "X75"), then an internal default of "CLEAR" is automatically assigned.

Software Release: 5E8 and later

Valid Entries:

Valid NUI IN UNVFY Entries	
Entry	Definition
CLEAR or C	Clear the packet call containing the NUI ID.
PASS or P	Pass the NUI ID.

Data Rules:

If NUI IN VFY, NUI IN UNVFY, NUI OUT VFY, or NUI OUT UNVFY is entered, TRKCLS must be "X75".

CELLULAR DATA

The following fields (Section 9.12 - Section 9.20) define data for the Digital Advanced Mobile Phone Service feature.

9.12 DCS TRK

Description: Is this a DCS (Digital Cellular Switch) trunk group?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

IF SFID ACT 130 on the SFSYS form is "N", DCS TRK cannot be "Y".

If DCS TRK is "Y":

- then HUNT TYPE must be

"2WB"

"2WF"

"ANN"

"BGUCD"

"GUCD" or

"MLIDL" "UCD"

or not entered.

- and INPUTSING is "TT", DCS DIGCNT must be entered. If DCS TRK is "Y" and INPUTSING is not "TT", DCS DIGCNT may not be entered.
- the AFAC ID must be entered on all corresponding EQDUP, EQVT, or EQLVC forms for the respective DEN, NEN, or OIUEN (TRKOE with TRKOETYPE = "0") populated on the associated TRUNK form.

EQDUP forms:

- If FAC IND is 0 or 1, AFAC ID FAC 0 must be entered.
- If FAC IND is 3, and the channel number (the last two digits of the DEN on the TRUNK form) is less than 25, AFAC ID FAC 0 must be entered.
- If FAC IND is 3, and the channel number is greater than 24, AFAC ID FAC 1 must be entered.

EQVT and EQLVC forms:

AFAC ID must be entered.

For 5E10 and later, if DCS TRK is "Y" and TRKCLS is not "SPCHNDLR", then IAPT must be "Y".

For 5E12 and later:

If DCS TRK is "Y", then ISUP MLD must be "N".

When DCS TRK is "Y" and TRKCLS is "A5", "ADT", "IDCS", "IS41", "IVTRK", "SVC", or "3GPD", HUNT TYPE must be "2WB", "2WF", "ANNC", "BGUCD", "FIFO", "GUCD", "MLIDL", or "UCD".

When DCS TRK is "Y" and TRKCLS is not "A5", "ADT", "IDCS", "IS41", "IVTRK", "SVC", or "3GPD", HUNT TYPE must be "2WB", "2WF", "ANNC", "BGUCD", "FIFO", "GUCD", "MLIDL", or "UCD".

For 5E13 and later,

if DCS TRK is "N" and TRKCLS is not equal to "BCM" or "PPMEM", and TRK DIR is not equal to "SGNL" on a TKGRP form, AFAC ID must not be entered for all corresponding EQDUP or EQVT forms.

if DCS TRK is "Y", an AFAC ID must be entered on all corresponding EQDUP or EQVT forms for the respective DEN or NEN populated on the associated TRUNK form.

For 5E14 and later,

When DCS TRK is "Y" and TRKCLS is "IS41", then DCS RETRY must be "Y".

When DCS TRK is "N", TRKCLS is not equal to BCM, ISLPM, or PPMEM

For 5E16(2) and later, when DCS TRK is "Y", find an SM in the EQIM form (5700-1 Record) where EQSTATUS is "O". Depending upon the CONFIGURATION in the EQIM form, certain local digital service equipment must exist.

9.13 DCS RETRY

Description: Should a retry be attempted on a trunk in this DCS trunk group?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

IF SFID ACT 130 on the SFSYS form is "N", DCS RETRY cannot be "Y".

9.14 DCS DIGCNT

Description: This field specifies the number of incoming digits for a DCS trunk. For 5E10 and later the valid entries are changed to support the Inter-MSC Tandem Support for International Calls feature. For more information on this feature, see Division 2, Section 8C.

Software Release: 5E9(1) and later

Valid Entries:

For 5E9(1) - 5E9(2): 1 - 26

For 5E10 and later: 1 - 28

Data Rules:

IF SFID ACT 130 on the SFSYS form is "N", DCS DIGCNT must be blank.

If DCS TRK is "Y" and

- INPULSING is "TT", then DCS DIGCNT must be entered.
- INPULSING is not "TT", then DCS DIGCNT must not be entered.

9.15 CONT TEST

Description: Should a continuity test be run on a DCS Cell Site 1 trunk?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If TRKCLS is not "CST1", CONT TEST must be "N".

9.16 SERV TYPE

Description: Enter the type of service for this trunk group with a TRKCLS of "SPCHNDLR" (speech handler for CDMA trunks). This field supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B.

Software Release: 5E10 and later.

Required Field.

Default: NOSERV

Valid Entries:

Valid SERV TYPE Entries	
Entry	Definition
3G1XPD	Software Release 5E15 and later. 3G-1X High Speed Data trunk groups.
8K	Software Release: 5E10 and later. 8K voice service for SPCHNDLR trunk groups.
13K	Software Release: 5E10 and later. 13K voice service for SPCHNDLR trunk groups.
ACELP	Software Release: 5E12 and later. Algebraic Code Excited Linear Predictive Algorithm Vocoder for SPCHNDLR trunk groups.
CEV13	Software Release: 5E16(1) and later. CDMA EVRC and 13K Vocoder.
CV	Software Release: 5E20(1) and later. CircuitVocoder.
CVEVB	Software Release 5E21(1) FR 1 and later. Circuit Vocoder with EVRC + EVRC-B
DATA	Software Release: 5E12 and later. This trunk group is being used for AUTOPLEX data.
EVRCB	Software Release 5E20(1) FR 1 and later. Channel Group for Enhanced Variable Rate Coder - Version B.
EVRC	Software Release: 5E11 and later. Enhanced Variable Rate Coding for SPCHNDLR trunk groups.
EVEVB	Software Release 5E20(1) and later. Channel Group for EVRCB Vocoder for CDMA EVRC and EVRCB vocoder.
NOSERV	No service is provided by the trunk
PFS	Software Release: 5E20(1) and later. Packet Frame Selector.
PV	Software Release: 5E20(1) and later. Packet Vocoder.
PVEVB	Software Release 5E21(1) FR 1 and later. Packet Vocoder with EVRC + EVRC-B
TACVS	Software Release: 5E16(1) and later. TDMA ACELP and VSELP Vocoder.
VSELP	Software Release: 5E12 and later. Vector Sum Excited Linear Predictive Algorithm Vocoder for SPCHNDLR trunk groups.

Data Rules:

When TRKCLS is "SPCHNDLR", SERV TYPE must be:

For 5E10: "8K", or "13K"

For 5E11: "8K", "13K", or "EVRC",

For 5E12: "8K", "13K", "ACELP", "EVRC", or "VSELP"

For 5E10 and 5E11, "NOSERV" must be entered if TRKCLS is not "SPCHNDRL".

For 5E12 and later:

- When SERV TYPE is "DATA", TRKCLS must be "ADT".
- When TRKCLS is "ADT", SERV TYPE must be "DATA".
- When TRKCLS is not "ADT" or "SPCHNDLR", SERV TYPE must be "NOSERV".

For 5E15 and later:

when TRKCLS is not "3GPD", "ADT", "CV", "PCF", "PFS", "PV", "SV", or "SPCHNDLR", SERV TYPE must be "NOSERV".

when TRKCLS is "3GPD", SERV TYPE must be "3G1XPD".

Speech Handler Trunk group members must have a corresponding PSUGP form or the corresponding PSUGP form must have a PH TYPE (on PSUGP) which is appropriate for the value of SERV TYPE (on TKGRP). The following table defines the PH TYPEs (on PSUGP) which are valid for each value of SERV TYPE (on TKGRP).

Valid PH TYPE Entries	
SERV TYPE	PH TYPE
8K	PHV1, PHV3, PHV4
13K	PHV2, PHV3, PHV4
ACELP	PHV4
CEV13	PHV5
CVEVB	Software Release 5E21(1)FR 1 and later. Circuit Vocoder with EVRC + EVRC-B
DATA	PHV1, PHV2, PHV3, PHV4
EVRCB	Software Release 5E20(1) FR1 and later. Channel Group for Enhanced Variable Rate Coder - Version B.
EVRC	PHV3, PHV4
EVEVB	Software Release 5E20(1) and later. Channel Group for EVRCB Vocoder for CDMA EVRC and EVRCB vocoder.
PVEVB	Software Release 5E21(1) FR 1 and later. Packet Vocoder with EVRC + EVRC-B
SME13	PHV6
TACVS	PHV5
VSELP	PHV4

PHV1s, PHV2s, PHV3s, and PHV4s, for 5E12 are exclusively used for Speech Handler trunks via UEN assignment on the TRUNK form (TRKOE where OE TYPE is equal to "U");

For 5E13 and later, when the Packet Pipe Enhancements secured feature has been purchased, a SFSYS form exists with SFID 317 ACT set to "Y". The PSUGP form represents PH4s and PH22s. The PH4 or PH22 must not exceed its capacity for CDMA trunk routing. The count of Packet Pipe Member trunks assigned to all Packet Pipe trunks which use a PH4 may not exceed 32. The count of Packet Pipe Member trunks assigned to all Packet Pipe trunks which use a PH22 may not exceed 64. However, when no Trunk Groups have been provisioned with SERV TYPE of "ACELP" or "VSELP", the number of CDMA calls the PH4 or the PH22 can

handle must not exceed 84 . Also, when one or more Trunk Groups have been provisioned with SERV TYPE of "ACELP" or "VSELP", the number of CDMA calls the PH4 can handle may not exceed 90 and the number of CDMA calls the PH22 can handle must not exceed 240.

The number of possible CDMA calls is dependent upon the presence of Trunk Group SERV TYPEs of "8K", "13K", "ACELP", "DATA", "EVRC" or "VSELP" in the switch, the DATA RATE of the Packet Pipe Member Trunks and the number of Packet Pipe Member trunks which point to this PH4 or PH22. See Division 2, Section 4a317 for more information on the Packet Pipe Enhancements feature.

For 5E15 and later, when unique PHs (OE [1-7]) are assigned to a different TRKCLS and/or SERV TYPE, a given PH must be assigned to the same TRKCLS and SERV TYPE when the PH TYPE is a PHV (i.e., any of the various Protocol Handler for Voice PH TYPEs) assigned on the TRUNK form (5204 Record) with an OE TYPE equal to "U".

- **NOTE:** The TRKCLS values "SVC" and "ADT" are excluded. SVCs must be assigned to a logical PH Channel with a "FRBC" trunk, and ADTs must be assigned to a logical PH Channel group with existing "SPCHNDLR" trunks. "PV" and "CV" trunks are considered only when they are not assigned to the same logical PH Channel Group as PFS trunks. PFS trunks are considered only when they are not assigned to the same logical PH Channel Group as "PV", "CV", or "SPCHNDLR" trunks.

For 5E16(1) and later:

when TRKCLS is "SPCHNDLR", SERV TYPE must be "8K", "13K", "ACELP", "CEV13", "EVRC", "TACVS", or "VSELP".

when SERV TYPE is "ACELP", "TAVCS", or "VSELP", the ACT field for SFID 259 on the SFSYS form (5713-1 Record) must be set to "Y". The "ACELP", "TACVS", and "VSELP" SERV TYPEs support the Switch Based TDMA Vocoders feature and are used exclusively for TDMA Vocoder services (see Division 2, Section 4A259).

For 5E18(1) and later, when SERV TYPE is "SME13", PH TYPE on the PSUGP form (5949 Record) must be "PHV5" or "PHV6".

- **NOTE:** A SERV TYPE of "TACVS" is not currently supported. The valid entry "TACVS" for the SERV TYPE field may potentially be supported for future use.

5E20(1) and later

When SERV TYPE is "EVRCB", or "EVEVB", TRKCLS must be "SPCHNDLR".

When SERV TYPE is a value other than "NOSERV", there can not be more than 10 trunk groups for a given service type.

When SERV TYPE is "CEV13", PVELBK ALGOR on ATSDATA form (5052 Record) must not be "SMV" or EVRCB.

When SERV TYPE is "EVEVB", PVELBK ALGOR on the ATSDATA form must not be "13K" or "SMV"

When SERV TYPE is "SME13", PVELBK ALGOR on the ATSDATA form must not be "EVRCB".

When SERV TYPE is "EVRCB" or "EVEVB", TRKCLS must be "SPCHNDLR".

When SERV TYPE is "CV", TRKCLS must be "CV".

When SERV TYPE is "PV", TRKCLS must be "PV".

5E21(1) and later

When SERV TYPE is "CVEVB", TRKCLS must be "CV".

When SERV TYPE is "PVEVB", TRKCLS must be "PV".

9.17 DCS NOTIFY

Description: Is a notification from the ECP (Executive Cellular Processor) required? This field cannot be entered. It will be automatically entered as follows:

- This field is automatically set to "Y" if TRKCLS is

"CTS1"

"CST2"

"IVTRK",

"PKTPIPE"

"SPCHNDLR"

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

9.18 ISG

Description: Is this an Information Services Gateway Trunk? This field supports the Information Services Gateway feature. For more information on this feature, see Division 2, Section 4C19.

Software Release: 5E9(2) and later.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, TRKCLS must be "IDCS".

9.19 ICOS TRK

Description: The ICOS TRK field indicates whether or not this trunk group will support ICOS (Increased Court Ordered Surveillance) traffic.

Software Release: 5E11 and later.

Default: N
Valid Entries: Y, N

Data Rules:

When ICOS TRK is "Y", TRKCLS must be "IDCS".

9.20 FAR E911

Description: Is far end of DCS trunk dedicated for E911 traffic?

Software Release: 5E10 and later.

Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- DCS TRK must be "Y"
- OUTPLS must be "MF"
- TRKCLS must not be
 - "CST1"
 - "CST2"
 - "DSC"
 - "IDCS"
 - "IVT"
- TRKCLS must not be

ADV SVC PLATFORM

The following fields (Section 9.21 - Section 9.26) are applicable to ASP (Advanced Services Platform; previously PVN, Private Virtual Network), available with 5E6 and later Software Releases.

9.21 TRIG NBR

Description: Enter the Network services trigger number.

Software Release: 5E9(1) and later
Valid Entries: 1 - 255

Data Rules:

If TRIG NBR is entered, TRKCLS must be "LATA", "LTOLLCON", "PRINTOLL", or "TTOLLCON", and TRK DIR must be "2W" or "INC".

TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form.

For 5E12 and later, when TRIG NBR is not entered and MBG TRANSPORT is "Y":

LDP must be "Y".

INPULSING or OUTPULSING must be "ISUP7".

TRKCLS must be "LATA".

9.22 UNRES EA

Description: Will ASP originations on this trunk group be using only EA (Equal Access) signaling with unrestricted dialing (i.e., it might not conform to standard EA signaling rules)? This field must be set to "Y" to handle ASP calls originated from a customer PBX, since the PBX may not have included the necessary prefix digits (such as 1+ or 011).

Furthermore, this field may be used to identify ASP calls over interoffice trunks. See Division 2, Sections 4A51 and 4A126 for more information.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PVN OFC on the OFCOPT form (5509 Record) is set to "NONE", then this office does not support ASP, and UNRES EA must be "N".

9.23 ASP TOLL

Description: Should all calls incoming over this toll trunk group generate an OHD (Off-Hook Delay) SCP Info_Collected query? This field is used with the ASP Trunk Trigger for TOLL secured feature. For more information concerning this feature, see Division 2, Section 4A159.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ASP TOLL is "Y":

- TRIG NBR must be entered,
- TRKCLASS must be "TTOLLCON",
- INPLS must be "ISUP7".

For every TRIG NBR on the TKGRP form where ASP TOLL is "Y", there must be a corresponding TRIG NBR entered on a NSTRIG form where AIN REL is "R0D1".

9.24 IP TRK

Description: Is this an Intelligent Peripheral Trunk? This field indicates that the Trunk Group is an Intelligent Peripheral Interface and is eligible to participate in the (STR(E)) Send To Resource External operation. This field supports the AIN SSP STOR (Send To Outside Resource (Local)) secured feature. For more information on this feature, see Division 2, Section 4A229.

Software Release: 5E10 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When IP TRK is "Y", TRKCLASS must be "EDSL" if ASPTOLL is "Y".

Since the STOR (Send To Outside Resource) feature requires that the office have ASP functionality before STOR data can be assigned, IP TRK must be "N" until ASP OFC on the OFCOPT has been set to "SSP".

Since STOR (Send To Outside Resource) is a secured feature and must be purchased by the office before STOR data can be assigned, IP TRK must be "N" until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

9.25 IP MEAS

Description: Are Intelligent Peripheral Measurements to be taken? This field indicates whether per-IP measurements shall be taken for the Trunk Group that is designated as an IP. This field supports the AIN SSP STOR (Send To Outside Resource (Local)) secured feature. For more information on this feature, see Division 2, Section 4A229.

Software Release: 5E10 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When IP MEAS is "Y", IP TRK must be "Y".

Since the number of trunk groups marked for measurement for the STOR (Send To Outside Resource) feature must not exceed 25, the number of TKGRP forms where IP MEAS is "Y" must not exceed 25.

9.26 CARRIER TRIG

Description: Will the trigger number defined on the ASP TRIG NBR field of the ICF form be used for the Carrier Routing by Facility Presence feature? This field supports the Carrier Routing / Call Processing by Facility Presence Special Feature. For more information on this feature see Division 2, Section 4A243.

Software Release: 5E11 and later.
Default: N
Valid Entries: Y, N

Data Rules:

Carrier Routing/Call Processing by Facility Presence is a secured feature that must be purchased by the office before CARRIER TRIG on the TKGRP form can be set to "Y". A SFSYS form must exist with SFID 243 ACT set to "Y".

9.27 CUT THRU TRIG

Description: The CUT THRU TRIG field is used to specify the Long Distance Platform cutthrough trigger

number.

Software Release: 5E13 and later.

Valid Entries: 1 - 255

Data Rules:

When CUT THRU TRIG is entered,

- LDP must be "Y".
- TRKCLS must be "LATA".
- TRIG NBR must be defined on a NSTRIG form where APPLICATION equals "ASP" and AIN REL equals "ROD1".

9.28 URT FCD BLK

Description: Should all Unrestricted FCD Codes be blocked from this trunk group?

This field was added for the ASP Unrestricted FCD Trigger feature. For more information, see Division 2, Section 4A572.

Software Release: 5E15 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When URT FCD BLK is "Y", TRKCLS must be "PF", "PFITT" or "PFLASH".

The secured feature ASP Unrestricted FCD Code Triggers must be purchased before URT FCD BLK can be changed to "Y" on the TKGRP form, therefore the ACT field for SFID 572 on the SFSYS form must be "Y".

When URT FCD BLK is "Y" on the TKGRP form, then the corresponding TGN cannot be used on the TKBLKCD form.

LOCAL NUMBER PORTABILITY

The following fields (Section 9.29 - Section 9.32) apply to LNP (Local Number Portability) secured feature (SFID 174) available with 5E11 and later Software Releases. For more information on this feature, see Division 2, Section 4A174.

9.29 LRN DAS

Description: Enter the LRN DAS (Local Routing Number Digit Analysis Selector) which is used to specify the digit analysis selector used when analyzing the LRN (Local Routing Number) received in the IAM (Initial Address Message) of an incoming ISUP7 trunk. The SIG PNUM and LRN DAS fields have been added to support the LNP (Local Number Portability) feature. For more information on this feature, see Division 2, Section 4A174.

Software Release: 5E11 and later.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

The Local Number Portability feature is a secured feature that must be purchased, and the SFID 174 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field is entered.

When this field is entered, LRN DAS must be entered on the DAS form (5300-1 Record).

When this field is entered, The corresponding DAS form must have LOCAL DIT entered. Also LOCAL DIT must be defined as LDIT on the corresponding SMLDIT form (5315 Record) for every operational SM in the office. This must be accomplished by entering an SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the LIST OF SWITCHING MODULES. The following is a list of SMs which have not been entered into the LIST OF SWITCHING MODULES on the appropriate SMLDIT form.

9.30 SIG PNUM

Description: Is the ported DN signaled on outgoing CCS7 trunks using normal ISUP signaling? Normally, the LRN (Location Routing Number) method expects to signal the LRN in the Called Party Number parameter of the IAM (Initial Address Message). The LRN is a 10-digit number that uniquely identifies a switching office and rate center. The SIG PNUM and LRN DAS fields have been added to support the LNP (Local Number Portability) feature. For more information on this feature, see Division 2, Section 4A174.

Software Release: 5E11 and later.

Required Field: PKT GRP

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, OUTPLS must be "ISUP7".

9.31 CNA OPTION

Description: Enter the Connecting Network Access AMA recording option. The CNA OPTION field is used for incoming or two-way trunks to indicate whether or not CNA (Connecting Network Access) AMA records should be generated for incoming calls on the trunk group. For more information on this feature, see Division 2, Section 4A180.

Software Release: 5E11 and later.

Required Field.

Default: NONE

Valid Entries:

Valid CNA OPTION Entries	
Entry	Definition
COND	CNA AMA records should only be generated for incoming calls which result in a LNP (Local Number Portability) SCP (Service Control Point) database query.
UNCOND	CNA AMA records should only be generated for all calls incoming over the trunk group.

NONE	CNA AMA records should not be generated for incoming calls over the trunk group.

Data Rules:

The Number Portability - Basic LRN AMA feature is a secured feature. This feature must be purchased and SFID 180 ACT set to "Y" on the SFSYS form (5713-1 Record) before "COND" or "UNCOND" can be entered in this field.

For 5E11 and later, when LDP is "Y", CNA OPTION must be "NONE" on this form.

When TRKCLS is not "CAMAANI", "CAMAONI", "EDSL", "LTOLLCON", "TTOLLCON", "X75", or "X75P", CNA OPTION must be "NONE" on this form.

When TRK DIR is not "INC" or "2W", CNA OPTION must be "NONE" on this form.

When FEAT GRP is "B" or "D", CNA OPTION must be "NONE".

9.32 PORTED

Description: The PORTED field is used to indicate whether the TN has been ported into this office via the NP feature. The indicator is used by call processing to determine whether or not to generate an NP BAF (Bellcore AMA Format) module for originating and terminating IXC access records.

Software Release: 5E11 and later

Default: N

Valid Entries: Y, N

Data Rules:

When PORTED is "Y", TRKCLS must be "PBXDID", "PF", "PFLASH", "PFCPE", "EDSL" or "EDSLHM".

LONG DISTANCE PLATFORM

Prior to 5E12, this was the TOLL DIGITAL EXCHANGE field group, the field group name was changed to LONG DISTANCE PLATFORM.

The following fields are applicable to LDP (Long Distance Platform), available with 5E10 and later Software Releases. For more information on this feature, see Division 2, Section 4A235.

9.33 TDX

Description: With 5E12 and later, this field name is changed to LDP. The TDX field indicates whether this trunk is part of a LDP network. Is this a LDP Trunk?

Software Release: 5E10 through 5E11.

Default: N

Valid Entries: Y, N

Data Rules:

The TDX field on the TKGRP form is used by the Toll Digital Exchange Special Feature in a LDP office. It is a secured feature that must be purchased by the office before the field can be set to "Y". An SFSYS form must exist with SFID 165 ACT set to "Y".

For 5E11, when TDX is "Y", CNA OPTION must be "NONE" on this form.

When TDX is "Y":

ASP TOLL must be "N"
 CMC must be "N"
 LN TYPE must be "NONE"
 NCD SCRIN must be "NONE"
 TRKCLS must be "IC"
 "LATA",
 or "TTOLLCON"

- and TRKCLS is "IC",
 - TRK DIR must be "OUT" or "2W".
 - OUTPULSING must be "ISUP7" or "MF"
- and TRKCLS is "LATA" or "TTOLLCON", TRK DIR must be "INC", "OUT" or "2W".
- and TRKCLS is "LATA"
 - and TRK DIR is "INC" or "2W", INPULSING must be "ISUP7" or "MF".
 - and TRK DIR is "OUT" or "2W", OUTPULSING must be "ISUP7" or "MF".
- and TRKCLS is "TTOLLCON"
 - and TRK DIR is "INC" or "2W", INPULSING must be "ISUP7".
 - and TRK DIR is "OUT" or "2W", OUTPULSING must be "ISUP7".
 - TERM BILL must be "N".

When TDX on the TKGRP form is "Y", then TDX CARRID on the OFCOPT form must be entered . Also the TDX CARRID on the OFCOPT form must be defined on the ICF form with the corresponding FEAT GRP equal to "D".

When TDX on the TKGRP form is "Y", then there must exist an ANITBL form with NPA equal to "000", NXX equal to "000" and LINE equal to "0000".

When TGN(s), defined on TKGRP form(s), do not have a LN TYPE entered or have LN TYPE entered as "NONE" and TDX is entered as "N", if the TGN is on an ARSTPA form, or if it is assigned an Automatic Route Selection (ARS) Feature on either the TRUNKFA form or the TKGRPFA form or an associated CLUSTER form, the associated TRKCLS on the TKGRP form must be entered as "PF", "PFITT", "PFLASH", "EDSL", or "EDSLHM".

When TGN(s), defined on TKGRP form(s), do not have a LN TYPE entered or have LN TYPE entered as "NONE" and TDX entered as "Y", if the TGN is on an ARSTPA form, or if it is assigned an Automatic Route Selection (ARS) Feature on either the TRUNKFA form or the TKGRPFA form or an associated CLUSTER form, then all following conditions must hold true:

- The associated TRKCLS on the TKGRP form must be entered as "LATA".
- TGN/MEMB/FEATURE must be defined on ARSTPA where (FRL LINE equals 16 and DIAL PLAN equals "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN equals "ODP") .
- If ARSTPA form is not found then the FEATURE must be defined on ARSFD where (FRL LINE equals 16 and DIAL PLAN equals "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN equals "ODP") .
- The FEATURE must be defined on ARSFD where ENTRY equals "AUTO".

9.34 LDP

Description: Prior to 5E12, this was the TDX field. With 5E12 and later, this field name was changed to LDP. The LDP field indicates whether this trunk is part of a LDP network. Is this a LDP Trunk?

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

The LDP field on the TKGRP form is used by the Toll Digital Exchange Special Feature in a LDP office. It is a secured feature that must be purchased by the office before the field can be set to "Y". An SFSYS form must exist with SFID 165 ACT set to "Y".

For 5E12 and later, when LDP is "Y", CNA OPTION must be "NONE" on this form.

For 5E12 and later, when LDP on the TKGRP form is "Y", there must be two LDPCTBL forms. One of the LDPCTBL forms must have LDP CARRIER set to 10000 with CARRIER PRESUBSCD equal to "Y" and the second LDPCTBL form must have LDP CARRIER set to 10000 with CARRIER PRESUBSCD equal to "N".

When LDP is "Y":

ASP TOLL must be "N"

CMC must be "N"

LN TYPE must be "NONE"

NCD SCREENING must be "NONE"

TRKCLS must be "IC"

"LATA",

or "TTOLLCON"

- and TRKCLS is "IC",
 - TRK DIR must be "OUT" or "2W".
 - OUTPULSING must be "ISUP7" or "MF".
- and TRKCLS is "LATA" or "TTOLLCON", TRK DIR must be "INC", "OUT" or "2W".
- and TRKCLS is "LATA",

- and TRK DIR is "INC" or "2W", INPULSING must be "ISUP7" or "MF".
- and TRK DIR is "OUT" or "2W", OUTPULSING must be "ISUP7" or "MF".
- and TRKCLS is "TTOLLCON",
 - and TRK DIR is "INC" or "2W", INPULSING must be "ISUP7".
 - and TRK DIR is "OUT" or "2W", OUTPULSING must be "ISUP7".
 - TERM BILL must be "N".

When LDP on the TKGRP form is "Y", then TDX CARRID on the OFCOPT form must be entered . Also the TDX CARRID on the OFCOPT form must be defined on the ICF form with the corresponding FEAT GRP equal to "D".

When LDP on the TKGRP form is "Y", then there must exist an ANITBL form with NPA equal to "000", NXX equal to "000" and LINE equal to "0000".

When a TGN(s), defined on a TKGRP form(s), does not have a LN TYPE entered or have LN TYPE entered as "NONE" and LDP is entered as "N", if the TGN is on an ARSTPA form, or if it is assigned an Automatic Route Selection (ARS) Feature on either the TRUNKFA form or the TKGRPFA form or an associated CLUSTER form, the associated TRKCLS on the TKGRP form must be entered as "PF", "PFITT", "PFLASH", "EDSL", or "EDSLHM".

When a TGN(s), defined on a TKGRP form(s), does not have a LN TYPE entered or have LN TYPE entered as "NONE" and LDP entered as "Y", if the TGN is on an ARSTPA form, or if it is assigned an Automatic Route Selection (ARS) Feature on either the TRUNKFA form or the TKGRPFA form or an associated CLUSTER form, then all following conditions must hold true:

- The associated TRKCLS on the TKGRP form must be entered as "LATA".
- TGN/MEMB/FEATURE must be defined on ARSTPA where (FRL LINE equals 16 and DIAL PLAN equals "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN equals "ODP") .
- If ARSTPA form is not found, then the FEATURE must be defined on ARSFD where (FRL LINE equals 16 and DIAL PLAN equals "ODP") or (FRL LINE not entered, TCM IN not entered and DIAL PLAN equals "ODP") .
- The FEATURE must be defined on ARSFD where ENTRY equals "AUTO".

For 5E15 and later, when LDP is "N", and DAL ACCESS is "Y", the ACT field for SFID 126, and SFID 272 on the SFSYS form must be "Y".

9.35 PASS ANI

Description: The PASS ANI field is used to indicate whether to pass the ANI (Automatic Number Identification) when egressing the LDP (Long Distance Platform) network on a LATA (Local Access Transport Area) MF (Multi-Frequency) trunk to a LEC (Local Exchange Carrier) or PBX (Private Branch Exchange).

Software Release: 5E13 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When PASS ANI is "Y",

- LDP must be "Y",
- TRKCLS must be "Y", and
- OUTPULSING must be "MF".

9.36 ANI PROCESS

Description: Should routing be based on the ANI table?

Software Release: 5E10 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When ANI PROCESS is "Y", LDP must be "Y".

The ANI PROCESS field on the TKGRP form is used by the Toll Digital Exchange with ANI Table Processing Special Feature in a LDP (Long Distance Platform) office. It is a secured feature that must be purchased by the office before the field can be set to "Y". An SFSYS form must exist with SFID 165 ACT and SFID 235 ACT set to "Y".

For 5E15 and later, when ANI PROCESS is "Y", TRKCLS must be "EDSL", "EDSLHM", "LATA", or "PF".

9.37 TERM BILL

Description: Should this LDP trunk have an AMA billing record produced at the terminating LDP office?

Software Release: 5E10 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When TERM BILL is "Y":

- LDP must be "Y"
- FREE TERM must be "N"

9.38 MINT SIG TYPE

Description: MINT (Multi-vendor Intra-Network Trunk) signaling type that will be used by all trunk group members. For more information, see Div. 2 Sec. 4A217.

Software Release: 5E12 and later.

Valid Entries:

Valid MINT SIG TYPE Entries	
Entry	Definition
ALPHA	Signaling used over MINT's that have the MINT SIG field set to ALPHA. The ALPHA SS7 signaling format populates a new Network-Specific IAM (Initial Address Message) parameter that contains the following information: queue indicator, T-NSC, O-NSC and route search limit. The T-NSC and O-NSC fields are larger than the fields used by BETA MINT signaling. For ALPHA MF signaling, the queue indicator, satellite indicator and T-NSC are prepended to the Called Party Number digit string.
BETA	Signaling used over MINT's that have the MINT SIG field set to BETA. The BETA SS7 signaling format populates a new Network-Specific IAM parameter that contains the following information: queue indicator, T-NSC, O-NSC and route search limit. For BETA MF signaling, the queue indicator, satellite indicator and T-NSC are prepended to the Called Party Number digit string.
GAMMA	Signaling used over MINT's that have the MINT SIG field set to GAMMA. The GAMMA (MF and SS7) signaling format prepends queue indicator, satellite indicator and T-NSC to the Called Party Number digits.
blank	Empty field.

Data Rules:

When MINT SIG TYPE is entered,

- TRKCLS must be "TTOLLCON".
- INPULSING and OUTPLSING must be "ISUP7" or "MF".
- ASP TOLL must be "N",
- CCS7 TYPE must be "BELLCORE",
- LDP must be "N",
- DCS TRK must be "N",
- LN TYPE must be "NONE" or must not be entered,
- ASP CARR TRIG must be "N",
- TRIG NBR must not be entered.
- LRN DAS must not be entered.

When RTE SEARCH LMT is entered on the RTIDX form, OUTPULSING must be "ISUP7" and MINT SIG TYPE must be "ALPHA" or "BETA" on the corresponding TKGRP form.

When TERM NSC is known on the RTIDX form, MINT SIG TYPE must be known on the TKGRP form. In addition, when MINT SIG TYPE is "BETA" on the corresponding TKGRP form, TERM NSC must be between 0 and 15 on the RTIDX form.

When MINT SIG TYPE is set to "ALPHA" on the TKGRP form, the MINT- ALPHA feature must be purchased by the office. A SFSYS form must exist with SFID 217 ACT set to "Y".

When MINT SIG TYPE is set to "BETA" on the TKGRP form, the MINT- ALPHA and the MINT-BETA features must be purchased by the office. A SFSYS form must exist with SFID 217 ACT and SFID 247 ACT set to "Y".

When MINT SIG TYPE is set to "GAMMA" on the TKGRP form, the MINT- ALPHA and the MINT-GAMMA features must be purchased by the office. A SFSYS form must exist with SFID 217 ACT and SFID 248 ACT set to "Y".

When MINT SIG TYPE and QUEUE FEATURE are known on the TKGRP form, the QUEUE TYPE must be set to "REROUTE" on the corresponding QUFD form.

The TGN entered on the TGNTNSC form must be defined on the TKGRP form with INPULSING set to "MF" or "ISUP7" and MINT SIG TYPE is known.

When TRUNK GROUP NUMBER is entered on the RTIDX form, and OUTPULSING is "MF" and MINT SIG TYPE is entered on the corresponding TKGRP form, SIGNALING PROTOCOL must be "TRAD" on the RTIDX form.

When TRUNK GROUP NUMBER is entered on the RTIDX form, and OUTPULSING is "ISUP7" and MINT SIG TYPE is entered on the corresponding TKGRP form, SIGNALING PROTOCOL must not be "FGB" on the RTIDX form.

When MINT SIG TYPE is entered LN TYPE must be "NONE".

When MINT SIG TYPE is known on the TKGRP form, the Basic LDP (Long Distance Platform) feature must be purchased by the office. A SFSYS form must exist with SFID 165 ACT set to "Y".

9.39 NETWORK IND

Description: The NETWORK IND field specifies whether or not the trunk group crosses a network boundary. This field is one of the criteria for determining if the NST (SS7 Network Specification Termination) parameter is sent back on an incoming trunk. For more information, see Division 2, Section 4A287.

Software Release: 5E13 and later.

Valid Entries:

Valid NETWORK IND Entries	
Entry	Definition
ON	The outgoing trunk is within the network.
OFF	The outgoing trunk crosses a network boundary.
blank	Empty field.

Data Rules:

When NETWORK IND is entered, only one of the following must be true: MINT SIG TYPE must be entered, DAL ACCESS must be "Y", DAL EGRESS must be "Y", VPN ACCESS must be "Y", or LDP must be "Y".

9.40 ACCT PROMPT

Description: The ACCT PROMPT field provides the Long Distance Platform (LDP) Account Code prompt type for incoming or two-way trunk groups where the LDP Account Code feature is active for the 400Hz Carrier Tone feature. ACCT PROMPT and CT FOR DT fields were added to support the 400Hz Carrier Tone feature. This feature was first made available in a 5E13 Software Update. For more information on this feature see Division 2, Section 4A165.

Software Release: 5E13 and later

Default: GLOBAL

Valid Entries:

I

Valid ACCT PROMPT Entries	
Entry	Definition
ANNC	SAS (Service Announcement System) announcement.
BEEP2	Prompt of two audible beeps.
CARRIER	400Hz carrier tone.
GLOBAL	Use prompt specified by ACCTPROMPT on the OFCOPT form.

Data Rules:

When ACCT PROMPT is not "GLOBAL", ANI PROCESS must be Y.

For 5E13 later, when the TKGRP forms have ACCT PROMPT set to CARRIER, the CARRIER TONE on the OFCOPT form must be set to "Y".

For 5E13 later, when the TKGRP forms have ACCT PROMPT set to "ANNC", exactly one FIXRT form must exist with FIXED ROUTE TYPE set to "TACCT".

9.41 CT FOR DT

Description: Activation status for carrier tone to be applied instead of dial tone for an incoming or a two-way trunk group. Should 400Hz carrier tone be provided for dial tone?

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When CT FOR DT is "Y", TRKCLS must be "IC", "LAT", "PF", "PFITT", "PFLASH", or "TTOLLCON".

When CT FOR DT is "Y", TRK DIR must be "TWOWAY" or "INCOM".

For 5E13 and later, when the TKGRP forms have CT FOR DT set to "Y", the CARRIER TONE field on the OFCOPT form must be set to "Y".

10. FORM ENTRIES - 5202-9 RECORD

10.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

10.2 * TGN

Description: Enter the number of the Trunk Groups being defined.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

LONG DISTANCE PLATFORM

10.3 PEF NPA

Description: The PEF NPA field allows the user the ability to choose whether to prefix the NPA designated on the incoming trunk group, the NPA of the incoming ANI or neither to a seven-digit number incoming to the switch on a LATA class trunk group.

Software Release: 5E12 and later.

Valid Entries: Valid Values: Blank, ANI, or FAR

Data Rules:

When PEF NPA is entered,

- VPN ACCESS must be "N".
- TRKCLS must be "EDSL", "EDSLHM", "LATA", or "PF".
- LDP must be "Y".

When PEF NPA is "FAR" FAR END NPA must be entered.

When VPN ACCESS is "Y" PEF NPA must be blank.

AML

The following fields (Section 10.4 - Section 10.5 11.15) support Automatic Maintenance Limits.

10.4 AML PERCENT

Description: The Automatic Maintenance Limit Percent is the percentage of trunks within a Trunk Group that can be removed from service automatically by the 5ESS Switch. Prior to 5E4(2) the customer could not specify the AML Percent; the AML Percent was determined by algorithms. The algorithms are still applied if the customer does not wish to override them by specifying a value in the AML PERCENT field. The algorithms are as follows (TG QTY represents the quantity of members in a Trunk Group):

- If TG QTY is 1, then AML PERCENT is 0.
- If TG QTY is between 2 and 16, then AML PERCENT is (TG QTY + 3) divided by 4.
- If TG QTY is greater than 16, then AML PERCENT is (TG QTY + 23) divided by 8.

NOTE: Remainders are ignored by the algorithms.

If the algorithm result is satisfactory, do not enter a value in the AML PERCENT field.

This field is used only if TRK DIR is "2W" "ANN" or "OUT". In addition, for 5E11 and later, TRK DIR is "INC" and E911 TYPE is "DED", "DIRANI" or "DIRNOANI".

Software Release: 5E4(2) and later

Valid Entries: 0 - 100 or blank.

Data Rules:

If TRKCLS is "EDSL" or "EDSLHM" and TRK DIR is "2W" or "OUT", then AML PERCENT must be set to 100.

If TRKCLS is "IFOPER", entry in this field is optional and may be a value from 0 to 100.

AML PERCENT can be specified only if TRK DIR is "2W", "ANN" or "OUT", or for 5E11 and later, TRK DIR is "INC" and E911 TYPE is "DED", "DIRANI", or "DIRNOANI".

When TRKCLS is "ATNDVIFY" and TRK DIR is "OUT", AML PERCENT cannot be entered.

10.5 AML ALARM

Description: Enter the AML (Automatic Maintenance Limit) Alarm level. This field allows for AML alarm levels to be set.

Software Release: 5E11 and later.

Required Field.

Default: MAJOR

Valid Entries:

Valid AML ALARM Entries	
Entry	Definition
CRITICAL	CRITICAL alarm level
MAJOR	MAJOR alarm level
MINOR	MINOR alarm level

Data Rules:

The (E911) Trunk Failure Alarms feature is a secured feature that must be purchased by the office before AML ALARM may be changed from "MAJOR" to either "CRITICAL" or "MINOR". The ACT field for SFID 193 must be set to "Y" on the SFSYS form (5713-1 Record).

It is recommended that AML ALARM be set to "CRITICAL", if E911 TYPE is "DED", "DIRANI" or "DIRNOANI".

VIRTUAL PRIVATE NETWORK

The fields Section 10.6 - Section 10.7 apply to Virtual Private Network/

10.6 VPN ACCESS

Description: The VPN ACCESS field indicates that a particular trunk is part of a VPN (Virtual Private Network).

Default: N

Valid Entries: Y, N

For 5E11 and later, when VPN ACCESS is "Y" and TRIG NBR is entered:

BRCS must be "N".

TRKCLS must be "EDSL" or "EDSLHM".

For 5E11 and later, when VPN ACCESS is "N" and TRIG NBR is entered, TRKCLS must be "LATA", "LTOLLCON", "PRINTOLL", or "TTOLLCON".

For 5E15 and later, when VPN ACCESS is "N", DAL ACCESS is "Y", and TRIG NBR is entered, TRKCLS must be "LATA", "LTOLLCON", "PRINTOLL", or "TTOLLCON".

For 5E11 and later, when VPN ACCESS is "N" and TRIG NBR is not entered, LDP must be "Y".

10.7 MBG TRANSPORT

Description: The MBG TRANSPORT field is used to indicate whether or not MBG (Multi-switch Business Group) information will be transported between an EO (End Office) and VPN (Virtual Private Network) switches. MBG information is required for making VPN-MBG calls.

Default: N

Valid Entries: Y, N

W

DAL/SPECIAL PBX

The fields Section 10.8 - Section 10.12 apply to Direct Access Links.

10.8 DAL ACCESS

Description: Is this a Direct Access Link trunk group? (For more information, see Division 2, Section 4A272.)

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later:

When VPN ACCESS is "N", TRIG NBR is entered and DAL ACCESS is "N", TRKCLS must be "LATA", "LTOLLCON", "PRINTOLL", or "TTOLLCON".

When DAL ACCESS is "Y":

- TRK DIR must be "2W" or "INC",
- TRKCLS must be "EDSL", EDSLHM, or "PF",
- CMC must be "N",
- ASP TOLL must be "N",
- CARRIER TRIG must be "N",
- VPN ACCESS must be "N",
- BRCS must be "N",
- TRIG NBR must be entered.

When DAL ACCESS is "Y" and TRKCLS is "PF", INPULSING must be "MF" or "TT".

Direct Access Link is a secured feature requiring that the ACT field for SFID 272 be set to "Y" on the SFSYS form (5713-1 Record) to activate the feature. The ACT field for SFID 126 must also be set to "Y" to activate the

ASP Release 0.1B secured feature before the ACT field before SFID 272 can be set to "Y".

When the TKGRP form (5202 Record) has DAL ACCESS set to "Y" and TRIG NBR entered, then the TRIG NBR must be defined on the corresponding NSTRIG form (5324 Record) with APPLICATION set to "ASP" and AIN REL set to "R0D1".

For 5E15 and later:

When DAL ACCESS is "Y" and LDP is "N", TRIG NBR must be entered.

When DAL ACCESS is "Y" and LDP is "Y", TRIG NBR must not be entered.

When DAL ACCESS is "Y" and LDP is "Y", CUT THRU TRIG must not be entered.

When DAL ACCESS is "Y", LDP is "Y", and TRKCLS is "PF",

BILLING DN must be 10 digits long.

BILLING DN must be NXXXXXXXXX where N=2-9 and X=0-9.

When DAL ACCESS is "Y", LDP is "Y", TRKCLS is "PF", and CARRIER ID is entered, FEAT GRP must be "D".

When DAL ACCESS is "Y", LDP is "Y", TRKCLS is "EDSL" or "EDSLHM", INPUTSING must be "DCHN".

When DAL ACCESS is "Y", LDP is "Y", and TRKCLS is "EDSL" or "EDSLHM", FAR END NPA must be entered.

When DAL ACCESS is "Y", the ACT field for SFID 165 and SFID 10, on the SFSYS form must also be "Y".

10.9 DAL EGRESS

Description: Is this an egressing DAL trunk? For more information, see Division 2, Section 4A287.

Software Release: 5E13 and later.

Default: Y

Valid Entries: Y, N

Data Rules:

When DAL EGRESS is "Y", TRKCLS must be "EDSL", "EDSLHM", "PF", "PFITT", or "PFLASH".

When DAL EGRESS is "Y", LN TYPE must be "NONE".

When DAL EGRESS is "Y", TRK DIR must be "2W" or "OUT".

When DAL EGRESS is "Y" and TRKCLS is "PF", "PFITT", or "PFLASH", "OUTPUTSING" must be "MF" or "TT".

When DAL EGRESS is "Y", SFID 287 ACT must be "Y" on the SFSYS form (5713-1 Record).

10.10 LINE BUSY

Description: Is line busy treatment provided for a call when all trunks are busy? For more information, see

Division 2, Section 4A287.

Software Release: 5E13 and later.

Default: Y

Valid Entries: Y, N

Data Rules:

When LINE BUSY is "Y", TRKCLS must be "EDSL", "EDSLHM", "PF", "PFITT", or "PFLASH".

When LINE BUSY is "Y", LN TYPE must be "NONE".

When LINE BUSY is "Y", TRK DIR must be "2W" or "OUT".

When LINE BUSY is "Y" and TRKCLS is "PF", "PFITT", or "PFLASH", OUTPUTSING must be "MF" or "TT".

When LINE BUSY is "Y", the ACT field for SFID 250 must be "Y" on the SFSYS form (5713-1 Record).

10.11 SPECIAL PBX

Description: The Special PBX field is used to identify whether or not to send the DNIS (Dialed Number Identification Services) protocol to the PBX (Private Branch Exchange). This is to distinguish PBXs that can only accept the standard protocol, versus the DNIS protocol.

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later, when SPECIAL PBX is "Y":

TRKCLS must be "EDSL", "EDSLHM", "PF", "PFITT", or "PFLASH".

TRK DIR must be "2W" or "OUT".

CUT THRU must not be entered or be "N".

When SPECIAL PBX is "Y" and TRKCLS is "PF", "PFITT", or "PFLAS", OUTPUTSING must be "MF" or "T".

When SPECIAL PBX is "Y" and TRKCLS is "EDSL" or "EDSLHM", or "PFLAS", CPN BN OPT must not be "NONE".

When SPECIAL PBX is "Y" and TRKCLS is "EDSL" or "EDSLHM", or "PFLAS", CPN BN OPT must not be "NONE".

10.12 DNIS USER

Description: The DNIS USER field is used to identify whether or not the trunk is a DNIS subscribed trunk for the Transport of Original Dialed Number feature.

Software Release: 5E13 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When DNIS USER is "Y", TRKCLS must be "EDSL", "EDSLHMPF", or "PF".

When DNIS USER is "Y", TRK DIR must be "OUT" or "2W".

10.13 CONTEXT ID

Description: This field is used to indicate whether or not a trunk group is set to "NATIVE", "RESOLD", or "UNBUNDLED" for the AMA Recording for Resale and Unbundling feature. For more information on this feature, see Division 2, Section 4A321.

Software Release: 5E12 and later

Required Field.

Default:

For 5E12 and 5E13: N

For 5E14: NATIVE

Valid Entries:

Valid CONTEXT ID Entries		
Entry for 5E12, 5E13	Entry for 5E14 and later	Description
N	NATIVE	Line owned by ILEC/Switch Owner with no additional recording.
R	RESOLD	Unbundled Line with Service Provider and Timing Module
U	UNBUNDLED	Resale Line with Service Provider and NO Timing Module

Data Rules:

For 5E12 and later:

When the CONTEXT ID field is set to "R" or "RESOLD" or "U" or "UNBUNDLED" on the TKGRP form, TRKCLS must be "EDSL", "EDSLHM", "PBXDID", "PF", "PFCPE", "PFITT", or "PFLASH".

When the CONTEXT ID field is set to "R" or "RESOLD" or "U" or "UNBUNDLED" on the TKGRP form, the ACT field for SFID (Secured Feature ID) 321 on the SFSYS form (5713-1 Record) must also be set to "Y".

END OFFICE NODAL

10.14 EON BILLING DN

Description: Proprietary field.

10.15 EON NBR PLAN

Description: Proprietary field.

10.16 EON PRIVACY

Description: Proprietary field.

10.17 EON PREFIX NPA

Description: Proprietary field.

10.18 EON INH TERM CBC

Description: Proprietary field.

SWITCHED ACCESS**10.19 SA TRIG NBR**

Description: Proprietary field.

10.20 ACC ID

Description: Proprietary field.

10.21 SA ORIG REC

Description: Proprietary field.

10.22 SA TERM REC

Description: Proprietary field.

LOCAL TRUNKS ADDRESS SIGNAL AND START DIAL COMBINATIONS

TRUNK CLASS	DESCRIPTION	TRUNK DIR.	ADDRESS SIGNAL		START DIAL		IDLE
			IN	OUT	IN	OUT	
ACJCK	AC Jack termination to Trunk and Line Work Station	INC	MF	-	-	-	ON
AIS	Outgoing to AIS	OUT	-	MF	-	WS	ON
ANNCMNT	Outgoing to Announcements	ANN	-	-	-	-	ON
ATNDVFY	Remote Busy Verify	INC	MF	-	WINK	-	ON
		OUT	-	MF	-	WINK	ON
BUSYVFY	Incoming Busy Verification	INC	DP/MF	-	WS	-	ON
CAMA	Outgoing CAMA Trunks - to Serving office	OUT	-	MF/DP	-	WS/ID/DD	ON
EDSL	Extended Digital Subscriber Line trunks	INC	DCHN	NONE	-	-	ON
		OUT	NONE	DCHN	-	-	ON
		2W	DCHN	DCHN	-	-	ON
		SGNL	DCHN	DCHN	-	-	ON
EDSLHM	Extended Digital Subscriber Line trunks for Hotel/Motel TSPS services	INC	DCHN	NONE	-	-	ON
		2W	DCHN	DCHN	-	-	ON
EISTRK	OSPS EIS TRUNK	OUT	NONE	NONE	NONE	NONE	ON
FIOPR	Intermediate Switching Point for Operator Trunks	INC	MF	-	WS	-	ON
FOPRI	Outgoing Operator Trunks to OSPS	OUT	-	MF	-	WS	ON
FOPRT	Outgoing Operator Trunks to TSPS	OUT	-	MF	-	WS	ON
IC	Interexchange Carrier Trunks	2W	MF	MF	WS	WS	ON
		INC	MF	-	WS	-	ON
		OUT	-	MF	-	WS	ON
		2W	ISUP7	ISUP7	-	-	ON
		INC	ISUP7	-	-	-	ON

		OUT	-	ISUP7	-	-	ON
INTRCPT (Future)	Outgoing to Operator Intercept	OUT	-	-	-	-	ON
LTOLLCON	Toll connecting to a Toll office other Class 5 office	INC	MF	-	DD/WS/DT	-	ON
		INC	DP	-	DD/WS/ ID/DT	-	ON
		OUT	-	MF	-	WS/DD	ON/OF F
		OUT	-	DP	-	ID/WS/DD	ON/OF F
		2W	MF	MF	WS/DT	WS	ON
		INC	NONE	-	DC	-	ON
		2W	NONE	MF	DC	WS	ON
		INC	RPEO	-	ID	-	-
		INC	RPTO	-	ID	-	-
		OUT	-	RPEO	-	ID	-
		OUT	-	RPTO	-	ID	-
		OUT	-	CCIS6/ ISUP7	-	-	ON
		INC	CCIS6/ ISUP7	-	-	-	ON
		2W	CCIS6/ ISUP7	CCIS6/ ISUP7	-	-	ON
OTOTK	Office-to-Office	OUT	-	DP/MF	-	ID/WS	ON
PACKET	Packet Switch EO Trunks	2W	-	-	-	-	ON
PBXDID	Outgoing Direct In-Dial to PBX-CO	OUT	-	DP/TT	-	ID/WS/DD	ON/OF F
PF/PFLASH	Private Facility without Flash and with Flash	INC	DP/TT	-	ID/WS/DD DT/GS/LS	-	ON
			MF	-	WS/DD/DT GS/LS	-	ON
		INC	NONE	-	DC	GS/LS/NO	ON
		OUT	-	DP/TT	-	ID/WS/ DD/ST/ GS/LS	ON
			-	MF	-	WS/DD/ST GS/LS	ON
		2W	DP/TT	DP/TT	ID/WS/ DD/DT	ID/WS/ DD/ST	ON
			MF	MF	WS/DD/DT	WS/DD/ST	ON
		2W	DP/MF/TT	DP/MF/TT	GS	GS	ON
		2W	DP/MF/TT	DP/MF/TT	LS	LS	ON
		2W	NONE	DP/MF/TT	DC	GS/LS	ON
PFLASH	Private Facility with Flash (When used for E911 CAMA PSAP Trunks)	2W	TT	MF	DT	WS	ON
PFCPE	Private Facility Customer Premise Equipment	OUT	-	DP/TT	-	ID/WS/ DD/ST	ON
PFITT	Private Facility Intertandem Trunks	INC	DP/TT	-	ID/WS DD/DT	-	ON
			MF	-	WS/DD/DT	-	ON
		OUT	-	DP/TT	-	ID/WS/DD	ON
			-	MF	-	WS/DD	ON
		2W	DP/TT	DP/TT	ID/WS/ DD/DT	IS/WS/DD	ON
			MF	MF	WS/DD/DT	WS/DD	ON
PPMEM	Packet Pipe Member	2W	PP	PP	NONE	NONE	ON
PKTPIPE	Packet Pipe	2W	PP	PP	NONE	NONE	ON
RECCMPL	Outgoing Recording Completing Operator Trunk	OUT	-	-	-	-	ON
SPCHNDLR	Speech Handler	2W	NONE	NONE	NONE	NONE	ON
SERVICE	TELCO Special Services	OUT	-	-	-	-	ON

SES	Service Evaluation Trunks	OUT	-	-	-	-	ON
TOLLOPER	Incoming from a 3C type Toll Switchboard Operator	INC	MF	-	WS	-	ON/OFF
TSPS	Outgoing to TSPS	OUT	-	MF	-	WS	ON
TSTK	Local Test Desk Interface	INC	MF	-	-	-	ON
		OUT	-	-	-	-	ON
X75P	Packet Switching on X.75' trunks	2W	-	-	-	-	ON

MF = Multifrequency,

DD = Delay Dial,

TT = Touch Tone,

ST = Stop,

DP = Dial Pulse,

DT = Dial Tone,

DC = Direct Connect,

NONE = No Impulsing,

WS = Wink Start,

RPEO = Revertive Pulsing End Office,

GS = Ground Start,

ID = Immediate Dial,

RPTO = Revertive Pulsing Tandem Office,

LS = Loop Start,

NO = No Start Dial

Figure 1 LOCAL TRUNKS ADDRESS SIGNAL AND START DIAL COMBINATIONS

TOLL TRUNKS ADDRESS SIGNAL AND START DIAL COMBINATIONS							
TRUNK CLASS	DESCRIPTION	TRUNK DIR.	ADDRESS SIGNAL		START DIAL		IDLE STATE
AUXTRNK	Auxiliary Service	OUT	-	-	-	WS	ON
BVINTOLL	Outgoing Busy Verification	OUT	-	MF	-	WS/DD	ON
	Primary Intertoll	OUT	-	DP	-	ID/WS	ON
		OUT	-	CCIS6/ISUP7	-	-	ON
BVTOLLCM	Outgoing Busy Verification	OUT	-	MF	-	WS/DD	ON/OFF
	Toll Completing	OUT	-	DP	-	ID/WS	ON
		OUT	-	CCIS6/ISUP7	-	-	ON
BUSYVFY	Incoming Busy Verification	INC	MF	-	WS/DD	-	ON
	Primary Intertoll	INC	DP	-	ID	-	ON
CAMOPKEY	CAMA Operator Keying Trunk	OUT	-	MF	-	WS	ON
CAMOPTLK	CAMA Operator Talking Trunk	OUT	-	-	-	-	ON
CAMAONI	Incoming CAMA Trunks - ONI	INC	MF	-	WS	-	ON
		INC	DP	-	ID/WS	-	ON
CAMAANI	Incoming CAMA Trunks - ANI	INC	MF	-	WS	-	ON
		INC	DP	-	ID/WS	-	ON
DIOR	Direct International Origination	INC	MF	-	WS	-	ON
FXROTL	Foreign Exchange lines for Toll/Tandem offices with no Directory Numbers	INC	-	-	-	-	ON
IC	Interexchange Carrier Trunks	2W	MF	MF	WS	WS	ON
		INC	MF	-	WS	-	ON

		OUT	-	MF	-	WS	ON
IFOPER	Outgoing OSPS PRI B Channel	OUT	-	DCHN	-	-	ON
	Outgoing OSPS PRI D Channel	SGNL	DCHN	DCHN	-	-	ON
IFTERM	Incoming OSPS PRI B Channel	INC	DCHN	-	-	-	ON
	Incoming OSPS PRI D Channel	SGNL	DCHN	DCHN	-	-	ON
INAISTRK	Incoming automatic intercept system trunk	INC	NONE	-	DIRC	-	ON
		OUT			DIRC		ON
					IMED		ON
					WINK		ON
					DLAY		ON
LATA	Intertoll Trunks from a LATA	2W	MF	MF	WS	WS	ON
		INC	MF		WS		ON
PRINTOLL	Primary Intertoll	INC	MF	-	WS/DD	-	ON
		INC	DP	-	ID	-	ON
		OUT	-	MF	-	WS/DD	ON
		OUT	-	DP	-	ID/WS/DD	ON
		2W	MF	MF	WS	WS	ON
		2W	MF	MF	DD	DD	ON
		2W	MF	DP	WS	ID	ON
		2W	MF	DP	WS	WS	ON
		2W	DP	DP	ID	ID	ON
		OUT	-	CCIS6/ ISUP7	-	-	ON
		INC	CCIS6/ ISUP7	-	-	-	ON
		2W	CCIS6/ ISUP7	CCIS6/ ISUP7	-	-	ON
RAFANNC	Recorded Announcement Function	RAF	-	-	-	-	ON
RAFCTR	RAF Coin Tone Receiver	RAF	-	-	-	-	ON
RAFDTA	RAF Dial Through Announcement	RAF	-	-	-	-	ON
RMSD3	TAT connected to an RMSD3	INC	MF	-	WS	-	ON
SCINTOLL	Toll Tandem	INC	MF	-	WS	-	ON
	Operator Assistance to Switchboard	OUT	-	-	-	WS	ON
	Operator Assistance to TSPS	OUT	-	MF	-	WS	ON
	Residual	OUT	-	-	-	WS	ON
	Delay Call	INC	MF	-	WS	-	ON
		OUT	-	CCIS6/ ISUP7	-	-	ON
		INC	CCIS6/ ISUP7	-	-	-	ON
		2W	CCIS6/ ISUP7	CCIS6/ ISUP7	-	-	ON
SPAB800	Special Access Basic 800 Service	2W	DP/MF/TT	DP/MF/TT	DD/ID/WS	DD/ID/WS	ON
		OUT	-	DP/MF/TT	-	DD/ID/WS	ON
SPAM800	MEGACOM 800 Service	2W	DP/MF/TT	DP/MF/TT	DD/ID/WS	DD/ID/WS	ON
		OUT	-	DP/MF/TT	-	DD/ID/WS	ON
SPAMEG	MEGACOM Service	2W	DP/MF/TT	DP/MF/TT	DT/ID/WS	ID/WS	ON
		INC	DP/MF/TT	-	DT/ID/WS	-	ON
SPAWATS	Special Access WATS	2W	DP/MF/TT	DP/MF/TT	DT/ID/WS	ID/WS	ON
		INC	DP/MF/TT	-	DT/ID/WS	-	ON
TCIKT	OSPS Transfer CAMA Incoming Keying Trunks	INC	MF	-	WS	-	ON
TCITT	OSPS Transfer CAMA Incoming Talking Trunks	INC	MF	-	WS	-	ON

TOPAS	TAT connected to TOPAS	INC	MF	-	WS	-	ON
TTOLLCON	Toll connecting to a Local Office	2W	MF	MF	DD/WS/DT	WS	ON
		INC	MF	-	DD/WS/DT	-	ON
		OUT	-	MF	-	WS/DD	ON/OFF
		OUT	-	DP	-	ID/WS	ON
		OUT	-	CCIS6/ ISUP7	-	-	ON
		INC	CCIS6/ ISUP7	-	-	-	ON
		2W	CCIS6/ ISUP7	CCIS6/ ISUP7	-	-	ON

MF= Multifrequency,

DP = Dial Pulse,

WS = Wink Start,

ID = Immediate Dial,

DD = Delay Dial,

DT= Dial Tone

Figure 2 TOLL TRUNKS ADDRESS SIGNAL AND START DIAL COMBINATIONS

CPN/BN OPTIONS FOR SWITCH CONFIGURATIONS INTERCONNECTED VIA PRIs									
NEAR OFFIC E SWITC H	FAR OFFICE SWITC H	CPN SCRN	CPN DISC	CPN BN OPT					
				NONE	CPNONLY	CPNPREF	BNONLY	BNPREF	CPNUP
Public	Private	Y/N	Y	x	x	x	x	x	
Public	Public	N	N	x	x	x	x	x	
Private	Private	N	N	x	x	x	x	x	
Private	Public	N	N	x					x

Figure 3 CPN/BN OPTIONS FOR SWITCH CONFIGURATIONS INTERCONNECTED VIA PRIs

```

tkgrp                               5ESS Switch
SCREEN 1 OF 14                      OFFICE DATA ADMINISTRATION
(5202)                              TRUNK_GROUP

*1. TGN      _____          13. TERA RCVY   _____          20. HOLD BUSY   N
#2. TRK DIR   _____          14. IAPT      Y              21. FAR END NPA  _____
  3. HUNT TYPE _____          15. CALLMON INH Y          22. LOCAL SM    _____
  4. SCR      _____          16. INSEP     _____          23. GL ANN TG   _____
  5. GLARE ACTION _____        17. INPULSING _____          24. BRCS        N
  6. DAS      _____          18. OUTPULSING _____        TOPAS TP NBR  _____
#7. TRKCLS    _____          19. SATELLITE  N
  8. CARRIER ID _____
  9. FEAT GRP  _____
10. FREE ANS  N
11. INC TND WINK N
12. ATTN      _____

```

```

tkgrp                               5ESS Switch
SCREEN 2 OF 14                      OFFICE DATA ADMINISTRATION

```

(5202)

TRUNK_GROUP

26. TRUNK CHAR _____	OPERATOR TRUNKS	ANNC TRUNKS
27. FEND CLLI _____	30. OUTPL REQ _	37. CYCLES _
28. PBX/CPE ID _____	31. AUDIBLE _	38. BARGE IN _
29. REMARKS _____	32. SIGNAL _____	39. AUD RNG _
	33. FREE TERM _	40. SVC GRP NOANNC
	34. COINRTN INT _	41. MAXCALLS _
	35. COINRTN FNL _	42. RETRY N
	36. TSPS TYPE _____	43. CASCADING N
		RAF MBRS 0

tkgrp

5ESS Switch

SCREEN 3 OF 14

OFFICE DATA ADMINISTRATION

(5202)

TRUNK_GROUP

CAMA TRUNKS	MISCELLANEOUS FEATURES	65. FGD CIC SZ _____
45. VALNPA _____	54. DATA RATE _____	66. SPEECH TRMTS N
46. VALNXX1 _____	55. INVERSION N	67. EON MC RI _____
47. VALNXX2 _____	56. WB RATE _____	68. RERTE Q INH N
48. VALNXX3 _____	57. WB TSA TYPE _____	69. CNA MOD 164 N
49. VALNXX4 _____	58. DIR CON DN _____	70. CALEA N
50. VALNXX5 _____	59. FACILITY TYPE _____	71. REL LINK INIT N
51. VALNXX6 _____	60. FACILITY NBR _____	72. SEND LD CIC N
52. VALNXX7 _____	61. RTE NBR PLAN _____	73. SS7 ISUP OPER N
53. VALNXX8 _____	62. BILLING DN _____	
	63. LS DLY ANS N	
	64. MLT ISLC OPT N	

tkgrp

5ESS Switch

SCREEN 4 OF 14

OFFICE DATA ADMINISTRATION

(5202)

TRUNK_GROUP

PFA TRUNK FEATURES

74. BUSY LAMP _____

75. MAKE BUSY KEY _____

76. CUT THRU _

tkgrp

5ESS Switch

SCREEN 5 OF 14

OFFICE DATA ADMINISTRATION

(5202)

TRUNK_GROUP

LATA/TOLL TRUNKS

CCS TRUNKS

CCITT7

77. CMC	N	86. TRUNK QUERY	_	91. DEST PT CODE	_____
78. CMC ID	_____	87. XLT TEST	_	92. ORIG PT CODE	_____
79. ORIG CMC	_____	88. NEND CLLI	_____	93. CONTROL TYPE	_____
80. TERM CMC	_____	89. VPA RATE	_____	94. CCS7 TYPE	BELLCORE
		90. VPA TYPE	NOVPA	95. CFN RSTRCT	N
LATA TRUNKS				96. RCD 3PT1 ITC	_____
81. BLK NO ANI	_			97. ISUP MLD	_
82. BILL TRKGRP	_			98. MAX HOP CNT	_____
83. NCD SCREENING	NONE				
84. ORIG LATA	_____				
85. UTT	N				

tkgrp	5ESS Switch
SCREEN 6 OF 14	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP
CENTREX NETWORK	MODULAR QUEUING TRUNKS
99. MBG ID	_____
100. OVFL MC RTIDX	_____
101. TRK ICI	_____
102. CPN RSTRCT	N
103. CHG RSTRCT	N
104. ATP IC RSTRCT	N
105. UUI IC RSTRCT	N
106. NI ANNC	N
107. NI IW REL	N
108. QUEUE ALLOWED	_
109. ENQUEUE ACT	_
110. QUEUE FEATURE	_____
111. DSN ARC ID	_____
112. SHUTTLE	N
113. MLPP STAGE	_____
114. IMM START ANN	N
115. RTCD REQ	N

tkgrp	5ESS Switch
SCREEN 7 OF 14	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP (EDSL/PRI TRUNKS)
116. STA ID	_____
117. UUI	_
118. CODE SET7	_____
119. SDN DAS	_____
120. CBC	N
121. DEDICATED SRV	_____
122. VOICE CUT THRU	NORMAL
123. DATA CUT THRU	NORMAL
124. APPLICATION	_____
125. MAIN DN	_____
126. CPN BN OPT	NONE
127. PRIV OVER	N
128. CPN SCRIN	N
129. CPN DISC	N
130. INHIBIT TCM	N
131. RDTA GRP	N
132. E911 CPN	N
133. CPN BILLING	N
134. ALLOW AMA	N
135. ALW DATA ONLY	N
136. STD RN SRC	N
137. RN SCRIN	N
138. RN DISC	N
139. RN BILLING	N
140. CI DIAL	_____
141. PIC	_____
142. PTC	_____
143. PLC	_____
144. UNBUNDLED	N
145. DIR CON IC	N
146. HM TAX	N
147. CNAM ALW	N
148. CNAM AMA	FLATRATE
149. PCN ALW	N
150. PCN AMA	FLATRATE
151. EDS CND	N

tkgrp 5ESS Switch
SCREEN 8 OF 14 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP (EDSL/PRI TRUNKS)

152. EDS GRP _____
153. NPA SOURCE _____
154. B CHAN NEG N
155. PASS OLI N

tkgrp 5ESS Switch
SCREEN 9 OF 14 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

SSP800 TRUNKS	MORE MISCELLANEOUS FEATURES	ISDN ATTENDANT
156. FAR END LATA ____	161. ACP SDN N	173. MK BUSY N
157. FAR END NXX ____	162. SDN STAT GRP N	174. BW LAMP N
158. COIN N	163. SPA BILL DN _____	175. ISAT MLHG ____
	164. SPA SUPV N	176. WARN THRESH ____
RELEASE LINK	165. ANI6 N	
159. RLT TYPE NONE	166. ANI7 N	LEASED NETWORK
160. RLT FLASH N	168. PRIVACY N	177. LN TYPE NONE
	169. INTER SM TRK N	178. LN VIRT N
	170. MAI S	179. LN GROUP _____
	171. API CODE ____	180. LN CRIT Q N
	172. ASI PROXY N	

tkgrp 5ESS Switch
SCREEN 10 OF 14 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

ENHANCED 911	
181. E911 TYPE NONDED	191. BCLID FEATURE _____
182. ESCO ____	192. BCLID GRP _____
183. CAMA PSAP N	PACKET SWITCHING
184. ENH PSAP SIG N	193. NBR PLAN NONE
185. TEN DIG ONLY N	194. NEXT PSN ____
186. PSAP RERTE TN _____	
187. RERTE ACT N	LEVEL 2 THRSH
188. WINK START ____	195. FCS _
189. ABND TIMER ____	196. SABM ____
190. OUTAGE RPT _	197. PROT VIOL ____

```

tkgrp                      5ESS Switch
SCREEN 11 OF 14            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

```

      X.75 TRUNKS
198. REMOTE DNIC  _____
199. SEGMENT SIZE  _____
200. CUG LIST ID  _____
201. CUG SCRN     N
202. ILC SCRN     _____
203. NUI IN VFY   _____
204. NUI IN UNVFY _____
205. NUI OUT VFY  _____
206. NUI OUT UNFVY _____

```

```

tkgrp                      5ESS Switch
SCREEN 12 OF 14            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

CELLULAR DATA	ADV SVC PLATFORM	NUMBER PORTABILITY
207. DCS TRK N	216. TRIG NBR _____	224. LRN DAS _____
208. DCS RETRY N	217. UNRES EA N	225. SIG PNUM N
209. DCS DIGCNT ____	218. ASP ORIG N	226. CNA OPTION NONE
210. CONT TEST N	219. ASP TOLL N	227. PORTED-IN AMA N
211. SERV TYPE NOSERV	220. IP TRK N	
DCS NOTIFY N	221. IP MEAS N	
213. ISG N	222. CARRIER TRIG N	
214. ICOS TRK N	223. CUT THRU TRIG ____	
215. FAR E911 N		

```

tkgrp                      5ESS Switch
SCREEN 13 OF 14            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

LONG DISTANCE PLATFORM	AML	VIRTUAL PRIVATE NETWORK
228. LDP N	237. AML PERCENT ____	239. VPN ACCESS N
229. PASS ANI N	238. AML ALARM MAJOR	240. MBG TRANSPORT N
230. ANI PROCESS N		
231. TERM BILL N		
232. MINT SIG TYPE _____		
233. NETWORK IND _____		
234. ACCT PROMPT GLOBAL		
235. CT FOR DT N		

236. PREF NPA _____

```

tkgrp                      5ESS Switch
SCREEN 14 OF 14            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

    DAL/SPECIAL PBX                END OFFICE NODAL
241. DAL ACCESS   N              247. EON BILLING DN   _____
242. DAL EGRESS   N              248. EON NBR PLAN   _____
243. LINE BUSY    N              249. EON PRIVACY    N
244. SPECIAL PBX  N              250. EON PREFIX NPA   N
245. DNIS USER    N              EON CBC                N
                                EON SDN BN   _____
                                EON SDN NBR PLAN _____
246. CONTEXT ID NATIVE          EON MEG DAS    _____
                                EON MEG BN     _____
                                EON MEG NBR PLAN _____

```

Figure 4 SAMPLE TKGRP FORM 5E14 SOFTWARE RELEASE

```

tkgrp                      5ESS Switch
SCREEN 1 OF 15            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

*1. TGN                _____    13. TERA RCVY   _____    20. HOLD BUSY    N
#2. TRK DIR            _____    14. IAPT        Y          21. FAR END NPA   _____
  3. HUNT TYPE         _____    15. CALLMON INH Y        22. LOCAL SM     _____
  4. SCR               _____    16. INSEP       _____    23. BICC GRP     _____
  5. GLARE ACTION     _____    17. INPULSING  _____    24. GL ANN TG    _____
  6. DAS              _____    18. OUTPULSING _____    25. BRCS         N
#7. TRKCLS            _____    19. SATELLITE   N          TOPAS TP NBR    _____
  8. CARRIER ID      _____
  9. FEAT GRP         _____
10. FREE ANS          N
11. INC TND WINK      N
12. ATTN              _____

```

```

tkgrp                      5ESS Switch
SCREEN 2 OF 15            OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

27. TRUNK CHAR _____    OPERATOR TRUNKS                ANNC TRUNKS
28. FEND CLLI   _____    31. OUTPL REQ   _____    38. CYCLES      _____
29. PBX/CPE ID  _____    32. AUDIBLE    _____    39. BARGE IN   _____

```

30. REMARKS _____	33. SIGNAL _____	40. AUD RNG _____
	34. FREE TERM _____	41. SVC GRP NOANNC
	35. COINRTN INT _____	42. MAXCALLS _____
	36. COINRTN FNL _____	43. RETRY N
	37. TSPS TYPE _____	44. CASCADING N
		RAF MBRS 0

tkgrp	5ESS Switch
SCREEN 3 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

CAMA TRUNKS		MISCELLANEOUS FEATURES	66. FGD CIC SZ _____
46. VALNPA _____	55. DATA RATE _____		67. SPEECH TRMTS N
47. VALNXX1 _____	56. INVERSION N		68. EON MC RI _____
48. VALNXX2 _____	57. WB RATE _____		69. RERTE Q INH N
49. VALNXX3 _____	58. WB TSA TYPE _____		70. CNA MOD 164 N
50. VALNXX4 _____	59. DIR CON DN _____		71. CALEA N
51. VALNXX5 _____	60. FACILITY TYPE _____		72. REL LINK INIT N
52. VALNXX6 _____	61. FACILITY NBR _____		73. SEND LD CIC N
53. VALNXX7 _____	62. RTE NBR PLAN _____		74. ROUTE IND _____
54. VALNXX8 _____	63. BILLING DN _____		75. SS7 ISUP OPER N
	64. LS DLY ANS N		
	65. MLT ISLC OPT N		

tkgrp	5ESS Switch
SCREEN 4 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

PFA TRUNK FEATURES	
76. BUSY LAMP _____	
77. MAKE BUSY KEY _____	
78. CUT THRU _____	

tkgrp	5ESS Switch
SCREEN 5 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

LATA/TOLL TRUNKS		CCS TRUNKS	CCITT7
79. CMC N	88. CQ/BQ ALW _____	93. DEST PT CODE _____	
80. CMC ID _____	89. XLT TEST _____	94. ORIG PT CODE _____	
81. ORIG CMC _____	90. NEND CLLI _____	95. CONTROL TYPE _____	
82. TERM CMC _____	91. VPA RATE _____	96. CCS7 TYPE BELLCORE	
	92. VPA TYPE NOVPA	97. CFN RSTRCT N	

LATA TRUNKS		98. RCD 3PT1 ITC _____
83. BLK NO ANI	___	99. ISUP MLD _____
84. BILL TRKGRP	___	100. MAX HOP CNT _____
85. NCD SCREENING	NONE	PLATFORM _____
86. ORIG LATA	___	
87. UTT	N	

tkgrp	5ESS Switch
SCREEN 6 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

CENTREX NETWORK	MODULAR QUEUING TRUNKS
102. MBG ID _____	111. QUEUE ALLOWED _____
103. OVFL MC RTIDX _____	112. ENQUEUE ACT _____
104. TRK ICI _____	113. QUEUE FEATURE _____
	114. INH GETS Q N
CCS7 EQUAL ACCESS	
105. CPN RSTRCT N	DSN TRUNKS
106. CHG RSTRCT N	115. DSN ARC ID _____
107. ATP IC RSTRCT N	116. SHUTTLE N
108. UUI IC RSTRCT N	117. MLPP STAGE _____
109. NI ANNC N	
110. NI IW REL N	

tkgrp	5ESS Switch
SCREEN 7 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

IMMEDIATE START ANNOUNCEMENT

118. IMM START ANN N

119. RTCD REQ N

tkgrp	5ESS Switch
SCREEN 8 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP (EDSL/PRI TRUNKS)

120. STA ID _____	132. CPN SCR N	144. CI DIAL _____
121. UUI _____	133. CPN DISC N	145. PIC _____
122. CODE SET7 _____	134. INHIBIT TCM N	146. PTC _____
123. SDN DAS _____	135. RDTA GRP N	147. PLC _____

124. CBC	N	136. E911 CPN	N	148. UNBUNDLED	N
125. DEDICATED SRV	_____	137. CPN BILLING	N	149. DIR CON IC	N
126. VOICE CUT THRU	NORMAL	138. ALLOW AMA	N	150. HM TAX	N
127. DATA CUT THRU	NORMAL	139. ALW DATA ONLY	N	151. CNAM ALW	N
128. APPLICATION	_____	140. STD RN SRC	N	152. CNAM AMA	FLATRATE
129. MAIN DN	_____	141. RN SCR N	N	153. PCN ALW	N
130. CPN BN OPT	NONE	142. RN DISC	N	154. PCN AMA	FLATRATE
131. PRIV OVER	N	143. RN BILLING	N	155. EDS CND	N

```

tkgrp                      5ESS Switch
SCREEN 9 OF 15              OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP (EDSL/PRI TRUNKS)

```

```

156. EDS GRP  _____
157. NPA SOURCE _____
158. B CHAN NEG N
159. PASS OLI  N

```

```

tkgrp                      5ESS Switch
SCREEN 10 OF 15             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

SSP800 TRUNKS	MORE MISCELLANEOUS FEATURES	ISDN ATTENDANT
160. FAR END LATA ____	165. ACP SDN N	177. MK BUSY N
161. FAR END NXX ____	166. SDN STAT GRP N	178. BW LAMP N
162. COIN N	167. SPA BILL DN _____	179. ISAT MLHG ____
	168. SPA SUPV N	180. WARN THRESH ____
RELEASE LINK	169. ANI6 N	
163. RLT TYPE NONE	170. ANI7 N	LEASED NETWORK
164. RLT FLASH N	172. PRIVACY N	181. LN TYPE NONE
	173. INTER SM TRK N	182. LN VIRT N
	174. MAI S	183. LN GROUP _____
	175. API CODE ____	184. LN CRIT Q N
	176. ASI PROXY N	

```

tkgrp                      5ESS Switch
SCREEN 11 OF 15             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

ENHANCED 911	195. BCLID FEATURE _____
185. E911 TYPE NONDED	196. BCLID GRP _____
186. ESCO _____	
187. CAMA PSAP N	PACKET SWITCHING
188. ENH PSAP SIG N	197. NBR PLAN NONE

189. TEN DIG ONLY	N	198. NEXT PSN	___
190. PSAP RERTE TN	_____		
191. RERTE ACT	N	LEVEL 2 THRSH	
192. WINK START	___	199. FCS	___
193. ABND TIMER	___	200. SABM	___
194. OUTAGE RPT	___	201. PROT VIOL	___

tkgrp	5ESS Switch
SCREEN 12 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

X.75 TRUNKS

202. REMOTE DNIC	___
203. SEGMENT SIZE	___
204. CUG LIST ID	___
205. CUG SCRN	N
206. ILC SCRN	___
207. NUI IN VFY	___
208. NUI IN UNVFY	___
209. NUI OUT VFY	___
210. NUI OUT UNFVY	___

tkgrp	5ESS Switch
SCREEN 13 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

CELLULAR DATA	ADV SVC PLATFORM	NUMBER PORTABILITY
211. DCS TRK N	220. TRIG NBR ___	229. LRN DAS ___
212. DCS RETRY N	221. UNRES EA N	230. SIG PNUM N
213. DCS DIGCNT ___	222. ASP ORIG N	231. CNA OPTION NONE
214. CONT TEST N	223. ASP TOLL N	232. PORTED-IN AMA N
215. SERV TYPE NOSERV	224. IP TRK N	
DCS NOTIFY N	225. IP MEAS N	
217. ISG N	226. CARRIER TRIG N	
218. ICOS TRK N	227. CUT THRU TRIG ___	
219. FAR E911 N	228. URT FCD BLK N	

tkgrp	5ESS Switch
SCREEN 14 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

LONG DISTANCE PLATFORM

AML

VIRTUAL PRIVATE NETWORK

233. LDP	N	242. AML PERCENT	____	244. VPN ACCESS	N
234. PASS ANI	N	243. AML ALARM	MAJOR	245. MBG TRANSPORT	N
235. ANI PROCESS	N				
236. TERM BILL	N				
237. MINT SIG TYPE	_____				
238. NETWORK IND	_____				
239. ACCT PROMPT	GLOBAL				
240. CT FOR DT	N				
241. PREF NPA	_____				

tkgrp	5ESS Switch	—
SCREEN 15 OF 15	OFFICE DATA ADMINISTRATION	
(5202)	TRUNK_GROUP	

DAL/SPECIAL PBX	END OFFICE NODAL
246. DAL ACCESS	N
247. DAL EGRESS	N
248. LINE BUSY	N
249. SPECIAL PBX	N
250. DNIS USER	N
252. EON BILLING DN	_____
253. EON NBR PLAN	_____
254. EON PRIVACY	N
255. EON PREFIX NPA	N
256. EON INH TERM CBC	N

251. CONTEXT ID NATIVE	SWITCHED ACCESS
	257. SA TRIG NBR
	258. ACC ID
	259. SA ORIG REC ON
	260. SA TERM REC OFF

Figure 5 SAMPLE TKGRP FORM 5E15 SOFTWARE RELEASE

tkgrp	5ESS Switch	
SCREEN 1 OF 15	OFFICE DATA ADMINISTRATION	
(5202)	TRUNK_GROUP	

*1. TGN	_____	13. TERA RCY	_____	20. HOLD BUSY	N
#2. TRK DIR	_____	14. IAPT	Y	21. FAR END NPA	_____
3. HUNT TYPE	_____	15. CALLMON INH	Y	22. LOCAL SM	_____
4. SCR	_____	16. INSEP	_____	23. PKT GRP	_____
5. GLARE ACTION	_____	17. INPULSING	_____	24. GL ANN TG	_____
6. DAS	_____	18. OUTPULSING	_____	25. BRCS	N
#7. TRKCLS	_____	19. SATELLITE	N	TOPAS TP NBR	_____
8. CARRIER ID	_____				
9. FEAT GRP	—			PACKET NETWORK TRUNKING	
10. FREE ANS	Y			27. DIFF SERV	_____
11. INC TND WINK	N				
12. ATTN	_____				

tkgrp 5ESS Switch
SCREEN 2 OF 15 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

28. TRUNK CHAR _____		OPERATOR TRUNKS		ANNC TRUNKS	
29. FEND CLLI _____		32. OUTPL REQ _____		39. CYCLES _____	
30. PBX/CPE ID _____		33. AUDIBLE _____		40. BARGE IN _____	
31. REMARKS _____		34. SIGNAL _____		41. AUD RNG _____	
		35. FREE TERM _____		42. SVC GRP NOANNC	
		36. COINRTN INT _____		43. MAXCALLS _____	
		37. COINRTN FNL _____		44. RETRY N	
		38. TSPS TYPE _____		45. CASCADING N	
				RAF MBRS 0	

tkgrp 5ESS Switch
SCREEN 3 OF 15 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

CAMA TRUNKS		MISCELLANEOUS FEATURES			
47. VALNPA _____		56. DATA RATE _____		67. FGD CIC SZ _____	
48. VALNXX1 _____		57. INVERSION N		68. SPEECH TRMTS N	
49. VALNXX2 _____		58. WB RATE _____		69. EON MC RI _____	
50. VALNXX3 _____		59. WB TSA TYPE _____		70. RERTE Q INH N	
51. VALNXX4 _____		60. DIR CON DN _____		71. CNA MOD 164 N	
52. VALNXX5 _____		61. FACILITY TYPE _____		72. CALEA N	
53. VALNXX6 _____		62. FACILITY NBR _____		73. INTRA MARKET N	
54. VALNXX7 _____		63. RTE NBR PLAN _____		74. REL LINK INIT N	
55. VALNXX8 _____		64. BILLING DN _____		75. SEND LD CIC N	
		65. LS DLY ANS N		76. ROUTE IND _____	
		66. MLT ISLC OPT N		77. SS7 ISUP OPER N	

tkgrp 5ESS Switch
SCREEN 4 OF 15 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

PFA TRUNK FEATURES

78. BUSY LAMP _____	
79. MAKE BUSY KEY _____	
80. CUT THRU _____	

tkgrp 5ESS Switch
SCREEN 5 OF 15 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

LATA/TOLL TRUNKS	CCS TRUNKS	CCITT7
81. CMC N	90. CQ/BQ ALW _	95. DEST PT CODE _____
82. CMC ID _____	91. XLT TEST _	96. ORIG PT CODE _____
83. ORIG CMC _	92. NEND CLLI _____	97. CONTROL TYPE _____
84. TERM CMC _	93. VPA RATE _____	98. CCS7 TYPE BELLCORE
	94. VPA TYPE NOVPA	99. CFN RSTRCT N
		100. RCD 3PT1 ITC _____
		101. ISUP MLD _
		102. MAX HOP CNT _
		PLATFORM _____

LATA TRUNKS
85. BLK NO ANI _
86. BILL TRKGRP _
87. NCD SCREENING NONE
88. ORIG LATA _
89. UTT N

tkgrp	5ESS Switch
SCREEN 6 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

CENTREX NETWORK	MODULAR QUEUING TRUNKS
104. MBG ID _____	113. QUEUE ALLOWED _
105. OVFL MC RTIDX _____	114. ENQUEUE ACT _
106. TRK ICI _____	115. QUEUE FEATURE _____
	116. INH EGR OFC Q N

CCS7 EQUAL ACCESS	DSN TRUNKS
107. CPN RSTRCT N	117. DSN ARC ID _
108. CHG RSTRCT N	118. SHUTTLE N
109. ATP IC RSTRCT N	119. MLPP STAGE _____
110. UUI IC RSTRCT N	
111. NI ANNC N	
112. NI IW REL N	

tkgrp	5ESS Switch
SCREEN 7 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

IMMEDIATE START ANNOUNCEMENT

120. IMM START ANN N

121. RTCD REQ N

tkgrp	5ESS Switch
SCREEN 8 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP (EDSL/PRI TRUNKS)

122. STA ID	_____	134. CPN SCR N	N	146. CI DIAL	_____
123. UUI	_____	135. CPN DISC	N	147. PIC	_____
124. CODE SET7	_____	136. INHIBIT TCM	N	148. PTC	_____
125. SDN DAS	_____	137. RDTA GRP	N	149. PLC	_____
126. CBC	N	138. E911 CPN	N	150. UNBUNDLED	N
127. DEDICATED SRV	_____	139. CPN BILLING	N	151. DIR CON IC	N
128. VOICE CUT THRU	NORMAL	140. ALLOW AMA	N	152. HM TAX	N
129. DATA CUT THRU	NORMAL	141. ALW DATA ONLY	N	153. CNAM ALW	N
130. APPLICATION	_____	142. STD RN SRC	N	154. CNAM AMA	FLATRATE
131. MAIN DN	_____	143. RN SCR N	N	155. PCN ALW	N
132. CPN BN OPT	NONE	144. RN DISC	N	156. PCN AMA	FLATRATE
133. PRIV OVER	N	145. RN BILLING	N	157. EDS CND	N

tkgrp 5ESS Switch
 SCREEN 9 OF 15 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP (EDSL/PRI TRUNKS)

158. EDS GRP _____
 159. NPA SOURCE _____
 160. B CHAN NEG N
 161. PASS OLI N
 162. DISP CNTRL N
 163. SN TRK N

tkgrp 5ESS Switch
 SCREEN 10 OF 15 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

SSP800 TRUNKS	MORE MISCELLANEOUS FEATURES	ISDN ATTENDANT
164. FAR END LATA _____	169. ACP SDN N	181. MK BUSY N
165. FAR END NXX _____	170. SDN STAT GRP N	182. BW LAMP N
166. COIN N	171. SPA BILL DN _____	183. ISAT MLHG _____
	172. SPA SUPV N	184. WARN THRESH _____
RELEASE LINK	173. ANI6 N	
167. RLT TYPE NONE	174. ANI7 N	LEASED NETWORK
168. RLT FLASH N	176. PRIVACY N	185. LN TYPE NONE
	177. INTER SM TRK N	186. LN VIRT N
	178. MAI S	187. LN GROUP _____
	179. API CODE _____	188. LN CRIT Q N
	180. ASI PROXY N	

tkgrp 5ESS Switch
 SCREEN 11 OF 15 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

ENHANCED 911 199. BCLID FEATURE _____

189. E911 TYPE	NONDED	200. BCLID GRP	_____
190. ESCO	_____		
191. CAMA PSAP	N	PACKET SWITCHING	
192. ENH PSAP SIG	N	201. NBR PLAN	NONE
193. TEN DIG ONLY	N	202. NEXT PSN	_____
194. PSAP RERTE TN	_____		
195. RERTE ACT	N	LEVEL 2 THRSH	
196. WINK START	_____	203. FCS	_____
197. ABND TIMER	_____	204. SABM	_____
198. OUTAGE RPT	_____	205. PROT VIOL	_____

tkgrp	5ESS Switch
SCREEN 12 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

X.75 TRUNKS

206. REMOTE DNIC	_____
207. SEGMENT SIZE	_____
208. CUG LIST ID	_____
209. CUG SCRN	N
210. ILC SCRN	_____
211. NUI IN VFY	_____
212. NUI IN UNVFY	_____
213. NUI OUT VFY	_____
214. NUI OUT UNFVY	_____

tkgrp	5ESS Switch
SCREEN 13 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

CELLULAR DATA	ADV SVC PLATFORM	NUMBER PORTABILITY
215. DCS TRK N	224. TRIG NBR _____	233. LRN DAS _____
216. DCS RETRY N	225. UNRES EA N	234. SIG PNUM N
217. DCS DIGCNT _____	226. ASP ORIG N	235. CNA OPTION NONE
218. CONT TEST N	227. ASP TOLL N	236. PORTED-IN AMA N
219. SERV TYPE NOSERV	228. IP TRK N	
DCS NOTIFY N	229. IP MEAS N	
221. ISG N	230. CARRIER TRIG N	
222. ICOS TRK N	231. CUT THRU TRIG _____	
223. FAR E911 N	232. URT FCD BLK N	

tkgrp	5ESS Switch
SCREEN 14 OF 15	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

LONG DISTANCE PLATFORM		AML	VIRTUAL PRIVATE NETWORK
237. LDP	N	246. AML PERCENT ____	248. VPN ACCESS N
238. PASS ANI	N	247. AML ALARM MAJOR	249. MBG TRANSPORT N
239. ANI PROCESS	N		
240. TERM BILL	N		
241. MINT SIG TYPE	_____		
242. NETWORK IND	_____		
243. ACCT PROMPT	GLOBAL		
244. CT FOR DT	N		
245. PREF NPA	_____		

```

tkgrp                                5ESS Switch                _
SCREEN 15 OF 15                      OFFICE DATA ADMINISTRATION
(5202)                               TRUNK_GROUP

```

DAL/SPECIAL PBX		END OFFICE NODAL	SWITCHED ACCESS
250. DAL ACCESS	N	256. EON BILLING DN _____	261. SA TRIG NBR ____
251. DAL EGRESS	N	257. EON NBR PLAN _____	262. ACC ID 0
252. LINE BUSY	N	258. EON PRIVACY N	263. SA ORIG REC ON
253. SPECIAL PBX	N	259. EON PREFIX NPA N	264. SA TERM REC OFF
254. DNIS USER	N	260. EON INH TERM CBC N	265. OLI SCR N 0

255. CONTEXT ID NATIVE

Figure 6 SAMPLE TKGRP FORM 5E16(1) SOFTWARE RELEASE

```

tkgrp                                5ESS Switch
SCREEN 1 OF 16                      OFFICE DATA ADMINISTRATION
(5202)                               TRUNK_GROUP

```

*1. TGN _____	13. TERA RCVY ____	20. HOLD BUSY N
#2. TRK DIR _____	14. IAPT Y	21. FAR END NPA ____
3. HUNT TYPE _____	15. CALLMON INH Y	22. LOCAL SM ____
4. SCR _____	16. INSEP ____	23. GL ANN TG ____
5. GLARE ACTION _____	17. INPULSING _____	24. BRCS N
6. DAS ____	18. OUTPULSING _____	TOPAS TP NBR ____
#7. TRKCLS _____	19. SATELLITE N	26. RAX ____
8. CARRIER ID _____		27. CODE RESTRICT ____
9. FEAT GRP _		
10. FREE ANS Y		
11. INC TND WINK N		
12. ATTN _____		

tkgrp 5ESS Switch
 SCREEN 2 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

PACKET NETWORK TRUNKING

28. PKT GRP _____
 29. BICC GRP _
 30. SIPT GRP _
 31. DIFF SERV _
 32. INTGI _____

tkgrp 5ESS Switch
 SCREEN 3 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

34. TRUNK CHAR _____	OPERATOR TRUNKS	ANNC TRUNKS
35. FEND CLLI _____	38. OUTPL REQ _	45. CYCLES _
36. PBX/CPE ID _____	39. AUDIBLE _	46. BARGE IN _
37. REMARKS _____	40. SIGNAL _____	47. AUD RNG _
	41. FREE TERM _	48. SVC GRP NOANNC
	42. COINRTN INT _	49. MAXCALLS _
	43. COINRTN FNL _	50. RETRY N
	44. TSPTS TYPE _____	51. CASCADING N
		RAF MBRS 0

tkgrp 5ESS Switch
 SCREEN 4 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

CAMA TRUNKS	MISCELLANEOUS FEATURES	
53. VALNPA ____	62. DATA RATE _____	73. FGD CIC SZ _____
54. VALNXX1 ____	63. INVERSION N	74. SPEECH TRMTS N
55. VALNXX2 ____	64. WB RATE _____	75. EON MC RI _____
56. VALNXX3 ____	65. WB TSA TYPE _____	76. RERTE Q INH N
57. VALNXX4 ____	66. DIR CON DN _____	77. CNA MOD 164 N
58. VALNXX5 ____	67. FACILITY TYPE ____	78. CALEA N
59. VALNXX6 ____	68. FACILITY NBR _____	79. INTRA MARKET N
60. VALNXX7 ____	69. RTE NBR PLAN _____	80. REL LINK INIT N
61. VALNXX8 ____	70. BILLING DN _____	81. SEND LD CIC N
	71. LS DLY ANS N	82. ROUTE IND _____
	72. MLT ISLC OPT N	83. SS7 ISUP OPER N
		84. INWATS DAS ____

tkgrp 5ESS Switch

SCREEN 5 OF 16
(5202)

OFFICE DATA ADMINISTRATION
TRUNK_GROUP

85. FAR END ES 4E N

PFA TRUNK FEATURES

86. BUSY LAMP _____
87. MAKE BUSY KEY _____
88. CUT THRU _____

tkgrp

5ESS Switch

SCREEN 6 OF 16
(5202)

OFFICE DATA ADMINISTRATION
TRUNK_GROUP

LATA/TOLL TRUNKS

89. CMC N
90. CMC ID _____
91. ORIG CMC _____
92. TERM CMC _____

CCS TRUNKS

98. CQ/BQ ALW _
99. XLT TEST _
100. NEND CLLI _____
101. VPA RATE _____
102. VPA TYPE NOVPA

CCITT7

103. DEST PT CODE _____
104. ORIG PT CODE _____
105. CONTROL TYPE _____
106. CCS7 TYPE BELLCORE
107. CFN RSTRCT N
108. RCD 3PT1 ITC _____
109. ISUP MLD _
110. MAX HOP CNT _
PLATFORM _____

LATA TRUNKS

93. BLK NO ANI _
94. BILL TRKGRP _
95. NCD SCREENING NONE
96. ORIG LATA _____
97. UTT N

tkgrp

5ESS Switch

SCREEN 7 OF 16
(5202)

OFFICE DATA ADMINISTRATION
TRUNK_GROUP

CENTREX NETWORK

112. MBG ID _____
113. OVFL MC RTIDX _____
114. TRK ICI _____

MODULAR QUEUING TRUNKS

121. QUEUE ALLOWED _
122. ENQUEUE ACT _
123. QUEUE FEATURE _____
124. INH EGR OFC Q N

CCS7 EQUAL ACCESS

115. CPN RSTRCT N
116. CHG RSTRCT N
117. ATP IC RSTRCT N
118. UUI IC RSTRCT N
119. NI ANNC N
120. NI IW REL N

DSN TRUNKS

125. DSN ARC ID _
126. SHUTTLE N
127. MLPP STAGE _____

tkgrp 5ESS Switch
SCREEN 8 OF 16 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

IMMEDIATE START ANNOUNCEMENT
128. IMM START ANN N

129. RTCD REQ N

tkgrp 5ESS Switch
SCREEN 9 OF 16 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP (EDSL/PRI TRUNKS)

130. STA ID	_____	142. CPN SCRN	N	154. CI DIAL	_____
131. UII	—	143. CPN DISC	N	155. PIC	_____
132. CODE SET7	_____	144. INHIBIT TCM	N	156. PTC	_____
133. SDN DAS	_____	145. RDTA GRP	N	157. PLC	_____
134. CBC	N	146. E911 CPN	N	158. UNBUNDLED	N
135. DEDICATED SRV	_____	147. CPN BILLING	N	159. DIR CON IC	N
136. VOICE CUT THRU	NORMAL	148. ALLOW AMA	N	160. HM TAX	N
137. DATA CUT THRU	NORMAL	149. ALW DATA ONLY	N	161. CNAM ALW	N
138. APPLICATION	_____	150. STD RN SRC	N	162. CNAM AMA	FLATRATE
139. MAIN DN	_____	151. RN SCRN	N	163. PCN ALW	N
140. CPN BN OPT	NONE	152. RN DISC	N	164. PCN AMA	FLATRATE
141. PRIV OVER	N	153. RN BILLING	N	165. EDS CND	N

tkgrp 5ESS Switch
SCREEN 10 OF 16 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP (EDSL/PRI TRUNKS)

166. EDS GRP _____
167. NPA SOURCE _____
168. B CHAN NEG N
169. PASS OLI N
170. DISP CNTRL N
171. SN TRK N

tkgrp 5ESS Switch
SCREEN 11 OF 16 OFFICE DATA ADMINISTRATION
(5202) TRUNK_GROUP

SSP800 TRUNKS	MORE MISCELLANEOUS FEATURES	ISDN ATTENDANT
172. FAR END LATA ____	177. ACP SDN N	189. MK BUSY N
173. FAR END NXX ____	178. SDN STAT GRP N	190. BW LAMP N
174. COIN N	179. SPA BILL DN _____	191. ISAT MLHG ____
	180. SPA SUPV N	192. WARN THRESH ____
RELEASE LINK	181. ANI6 N	
175. RLT TYPE NONE	182. ANI7 N	LEASED NETWORK
176. RLT FLASH N	184. PRIVACY N	193. LN TYPE NONE
	185. INTER SM TRK N	194. LN VIRT N
	186. MAI S	195. LN GROUP _____
	187. API CODE ____	196. LN CRIT Q N
	188. ASI PROXY N	

tkgrp 5ESS Switch
 SCREEN 12 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

ENHANCED 911	207. BCLID FEATURE _____
197. E911 TYPE NONDED	208. BCLID GRP _____
198. ESCO ____	
199. CAMA PSAP N	PACKET SWITCHING
200. ENH PSAP SIG N	209. NBR PLAN NONE
201. TEN DIG ONLY N	210. NEXT PSN ____
202. PSAP RERTE TN _____	
203. RERTE ACT N	LEVEL 2 THRSH
204. WINK START ____	211. FCS _
205. ABND TIMER ____	212. SABM ____
206. OUTAGE RPT _	213. PROT VIOL ____

tkgrp 5ESS Switch
 SCREEN 13 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

X.75 TRUNKS

214. REMOTE DNIC ____
215. SEGMENT SIZE ____
216. CUG LIST ID ____
217. CUG SCR N
218. ILC SCR N
219. NUI IN VFY ____
220. NUI IN UNVFY ____
221. NUI OUT VFY ____
222. NUI OUT UNFVY ____

tkgrp 5ESS Switch

SCREEN 14 OF 16
(5202)

OFFICE DATA ADMINISTRATION
TRUNK_GROUP

CELLULAR DATA	ADV SVC PLATFORM	NUMBER PORTABILITY
223. DCS TRK N	232. TRIG NBR ____	241. LRN DAS ____
224. DCS RETRY N	233. UNRES EA N	242. SIG PNUM N
225. DCS DIGCNT ____	234. ASP ORIG N	243. CNA OPTION NONE
226. CONT TEST N	235. ASP TOLL N	244. PORTED-IN AMA N
227. SERV TYPE NOSERV	236. IP TRK N	
DCS NOTIFY N	237. IP MEAS N	
229. ISG N	238. CARRIER TRIG N	
230. ICOS TRK N	239. CUT THRU TRIG ____	
231. FAR E911 N	240. URT FCD BLK N	

tkgrp

SCREEN 15 OF 16
(5202)

5ESS Switch
OFFICE DATA ADMINISTRATION
TRUNK_GROUP

LONG DISTANCE PLATFORM	AML	VIRTUAL PRIVATE NETWORK
245. LDP N	254. AML PERCENT ____	256. VPN ACCESS N
246. PASS ANI N	255. AML ALARM MAJOR	257. MBG TRANSPORT N
247. ANI PROCESS N		
248. TERM BILL N		
249. MINT SIG TYPE ____		
250. NETWORK IND ____		
251. ACCT PROMPT GLOBAL		
252. CT FOR DT N		
253. PREF NPA ____		

tkgrp

SCREEN 16 OF 16
(5202)

5ESS Switch
OFFICE DATA ADMINISTRATION
TRUNK_GROUP

DAL/SPECIAL PBX	END OFFICE NODAL	SWITCHED ACCESS
258. DAL ACCESS N	265. EON BILLING DN ____	270. SA TRIG NBR ____
259. DAL EGRESS N	266. EON NBR PLAN ____	271. ACC ID 0
260. LINE BUSY N	267. EON PRIVACY N	272. SA ORIG REC ON
261. SPECIAL PBX N	268. EON PREFIX NPA N	273. SA TERM REC OFF
262. DNIS USER N	269. EON INH TERM CBC N	274. OLI SCR N 0
263. SPECIAL DNIS N		
264. CONTEXT ID NATIVE		

Figure 7 SAMPLE TKGRP FORM 5E16(2) THROUGH 5E20(1) SOFTWARE RELEASES

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tkgrp                      5ESS Switch
SCREEN 1 OF 16             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

*1. TGN      _____    13. TERA RCVY   _____    20. HOLD BUSY   N
#2. TRK DIR   _____    14. IAPT      Y          21. FAR END NPA  _____
  3. HUNT TYPE _____    15. CALLMON INH Y       22. LOCAL SM    _____
  4. SCR       _____    16. INSEP     _____    23. GL ANN TG   _____
  5. GLARE ACTION _____    17. INPULSING _____    24. BRCS        N
  6. DAS       _____    18. OUTPULSING _____    TOPAS TP NBR  _____
#7. TRKCLS    _____    19. SATELLITE  N
  8. CARRIER ID _____
  9. FEAT GRP  _
10. FREE ANS   Y
11. INC TND WINK N
12. ATTTN      _____

```

```

tkgrp                      5ESS Switch
SCREEN 2 OF 16             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```

PACKET NETWORK TRUNKING

```

26. PKT GRP   _____
27. BICC GRP   _
28. SIPT GRP   _
29. DIFF SERV  _
30. INTGI      0

```

```

tkgrp                      5ESS Switch
SCREEN 3 OF 16             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

32. TRUNK CHAR _____    OPERATOR TRUNKS          ANNC TRUNKS
33. FEND CLLI  _____    36. OUTPL REQ   _          43. CYCLES      _
34. PBX/CPE ID _____    37. AUDIBLE     _          44. BARGE IN    _
35. REMARKS     _____    38. SIGNAL      _____    45. AUD RNG     _
                                   39. FREE TERM    _          46. SVC GRP     NOANNC
                                   40. COINRTN INT _          47. MAXCALLS    _
                                   41. COINRTN FNL _          48. RETRY       N
                                   42. TSPS TYPE   _____    49. CASCADING   N
                                                RAF MBRS      0

```

```

tkgrp                      5ESS Switch
SCREEN 4 OF 16             OFFICE DATA ADMINISTRATION
(5202)                     TRUNK_GROUP

```


CAMA TRUNKS		MISCELLANEOUS FEATURES		71. FGD CIC SZ	
51. VALNPA	_____	60. DATA RATE	_____	72. SPEECH TRMTS	N
52. VALNXX1	_____	61. INVERSION	N	73. EON MC RI	_____
53. VALNXX2	_____	62. WB RATE	_____	74. RERTE Q INH	N
54. VALNXX3	_____	63. WB TSA TYPE	_____	75. CNA MOD 164	N
55. VALNXX4	_____	64. DIR CON DN	_____	76. CALEA	N
56. VALNXX5	_____	65. FACILITY TYPE	_____	77. INTRA MARKET	N
57. VALNXX6	_____	66. FACILITY NBR	_____	78. REL LINK INIT	N
58. VALNXX7	_____	67. RTE NBR PLAN	_____	79. SEND LD CIC	N
59. VALNXX8	_____	68. BILLING DN	_____	80. ROUTE IND	_____
		69. LS DLY ANS	N	81. RAX	_____
		70. MLT ISLC OPT	N	82. CD RSTRCT	

tkgrp	5ESS Switch
SCREEN 5 OF 16	OFFICE DATA ADMINISTRATION
(5202)	TRUNK GROUP

83. SS7 ISUP OPER N
84. INWATS DAS _____
85. FAR END ES 4E N

PFA TRUNK FEATURES

86. BUSY LAMP _____
87. MAKE BUSY KEY _____
88. CUT THRU _____

tkgrp	5ESS Switch
SCREEN 6 OF 16	OFFICE DATA ADMINISTRATION
(5202)	TRUNK GROUP

LATA/TOLL TRUNKS		CCS TRUNKS		CCITT7	
89. CMC	N	98. CQ/BQ ALW	—	103. DEST PT CODE	_____
90. CMC ID	_____	99. XLT TEST	—	104. ORIG PT CODE	_____
91. ORIG CMC	—	100. NEND CLLI	_____	105. CONTROL TYPE	_____
92. TERM CMC	—	101. VPA RATE	_____	106. CCS7 TYPE	BELLCORE
		102. VPA TYPE	NOVPA	107. CFN RSTRCT	N
LATA TRUNKS				108. RCD 3PT1 ITC	_____
93. BLK NO ANI	—			109. ISUP MLD	—
94. BILL TRKGRP	—			110. MAX HOP CNT	—
95. NCD SCREENING	NONE			PLATFORM	_____
96. ORIG LATA	_____				
97. UTT	N				

```
tkgrp                                5ESS Switch
SCREEN 7 OF 16                      OFFICE DATA ADMINISTRATION
(5202)                              TRUNK GROUP
```

CENTREX NETWORK		MODULAR QUEUING TRUNKS	
112. MBG ID	_____	121. QUEUE ALLOWED	_
113. OVFL MC RTIDX	_____	122. ENQUEUE ACT	_
114. TRK ICI	_____	123. QUEUE FEATURE	_____
		124. INH EGR OFC Q	N
CCS7 EQUAL ACCESS		DSN TRUNKS	
115. CPN RSTRCT	N	125. DSN ARC ID	__
116. CHG RSTRCT	N	126. SHUTTLE	N
117. ATP IC RSTRCT	N	127. MLPP STAGE	_____
118. UUI IC RSTRCT	N		
119. NI ANNC	N		
120. NI IW REL	N		

tkgrp	5ESS Switch
SCREEN 8 OF 16	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP

IMMEDIATE START ANNOUNCEMENT

128. IMM START ANN N

129. RTCD REQ N

tkgrp	5ESS Switch		
SCREEN 9 OF 16	OFFICE DATA ADMINISTRATION		
(5202)	TRUNK_GROUP (EDSL/PRI TRUNKS)		
130. STA ID	_____	142. CPN SCR N	N
131. UUI	_	143. CPN DISC	N
132. CODE SET7	_____	144. INHIBIT TCM	N
133. SDN DAS	_____	145. RDTA GRP	N
134. CBC	N	146. E911 CPN	N
135. DEDICATED SRV	_____	147. CPN BILLING	N
136. VOICE CUT THRU	NORMAL	148. ALLOW AMA	N
137. DATA CUT THRU	NORMAL	149. ALW DATA ONLY	N
138. APPLICATION	_____	150. ALW PRECEDENCE PARM	N
139. MAIN DN	_____	151. STD RN SRC	N
140. CPN BN OPT	NONE	152. RN SCR N	N
141. PRIV OVER	N	153. RN DISC	N
		154. RN BILLING	N

tkgrp	5ESS Switch
SCREEN 10 OF 16	OFFICE DATA ADMINISTRATION
(5202)	TRUNK_GROUP (EDSL/PRI TRUNKS)

155. CI DIAL	_____	167. EDS GRP	_____
156. PIC	_____	168. NPA SOURCE	_____
157. PTC	_____	169. B CHAN NEG	N
158. PLC	_____	170. PASS OLI	N
159. UNBUNDLED	N	171. DISP CNTRL	N
160. DIR CON IC	N	172. SN TRK	N
161. HM TAX	N		
162. CNAM ALW	N		
163. CNAM AMA	FLATRATE		
164. PCN ALW	N		
165. PCN AMA	FLATRATE		
166. EDS CND	N		

tkgrp
SCREEN 11 OF 16
(5202)

5ESS Switch
OFFICE DATA ADMINISTRATION
TRUNK_GROUP

SSP800 TRUNKS	MORE MISCELLANEOUS FEATURES	ISDN ATTENDANT
173. FAR END LATA	178. ACP SDN N	190. MK BUSY N
174. FAR END NXX	179. SDN STAT GRP N	191. BW LAMP N
175. COIN N	180. SPA BILL DN _____	192. ISAT MLHG _____
	181. SPA SUPV N	193. WARN THRESH _____
RELEASE LINK	182. ANI6 N	
176. RLT TYPE NONE	183. ANI7 N	LEASED NETWORK
177. RLT FLASH N	185. PRIVACY N	194. LN TYPE NONE
	186. INTER SM TRK N	195. LN VIRT N
	187. MAI S	196. LN GROUP _____
	188. API CODE _____	197. LN CRIT Q N
	189. ASI PROXY N	

tkgrp
SCREEN 12 OF 16
(5202)

5ESS Switch
OFFICE DATA ADMINISTRATION
TRUNK_GROUP

ENHANCED 911	208. BCLID FEATURE	_____
198. E911 TYPE NONDED	209. BCLID GRP	_____
199. ESCO		
200. CAMA PSAP N	PACKET SWITCHING	
201. ENH PSAP SIG N	210. NBR PLAN NONE	
202. TEN DIG ONLY N	211. NEXT PSN	_____
203. PSAP RERTE TN _____		
204. RERTE ACT N	LEVEL 2 THRSH	
205. WINK START	212. FCS	_____
206. ABND TIMER	213. SABM	_____
207. OUTAGE RPT	214. PROT VIOL	_____

tkgrp 5ESS Switch
 SCREEN 13 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

X.75 TRUNKS
 215. REMOTE DNIC _____
 216. SEGMENT SIZE _____
 217. CUG LIST ID _____
 218. CUG SCRN N
 219. ILC SCRN _____
 220. NUI IN VFY _____
 221. NUI IN UNVFY _____
 222. NUI OUT VFY _____
 223. NUI OUT UNFVY _____

tkgrp 5ESS Switch
 SCREEN 14 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

CELLULAR DATA	ADV SVC PLATFORM	NUMBER PORTABILITY
224. DCS TRK N	233. TRIG NBR _____	242. LRN DAS _____
225. DCS RETRY N	234. UNRES EA N	243. SIG PNUM N
226. DCS DIGCNT ____	235. ASP ORIG N	244. CNA OPTION NONE
227. CONT TEST N	236. ASP TOLL N	245. PORTED-IN AMA N
228. SERV TYPE NOSERV	237. IP TRK N	
DCS NOTIFY N	238. IP MEAS N	
230. ISG N	239. CARRIER TRIG N	
231. ICOS TRK N	240. CUT THRU TRIG _____	
232. FAR E911 N	241. URT FCD BLK N	

tkgrp 5ESS Switch
 SCREEN 15 OF 16 OFFICE DATA ADMINISTRATION
 (5202) TRUNK_GROUP

LONG DISTANCE PLATFORM	AML	VIRTUAL PRIVATE NETWORK
246. LDP N	255. AML PERCENT _____	257. VPN ACCESS N
247. PASS ANI N	256. AML ALARM MAJOR	258. MBG TRANSPORT N
248. ANI PROCESS N		
249. TERM BILL N		
250. MINT SIG TYPE _____		
251. NETWORK IND _____		
252. ACCT PROMPT GLOBAL		
253. CT FOR DT N		

254. PREF NPA _____

tkgrp		5ESS Switch		—	
SCREEN 16 OF 16		OFFICE DATA ADMINISTRATION			
(5202)		TRUNK_GROUP			
DAL/SPECIAL PBX		END OFFICE NODAL		SWITCHED ACCESS	
259. DAL ACCESS	N	266. EON BILLING DN	_____	271. SA TRIG NBR	_____
260. DAL EGRESS	N	267. EON NBR PLAN	_____	272. ACC ID	0
261. LINE BUSY	N	268. EON PRIVACY	N	273. SA ORIG REC	ON
262. SPECIAL PBX	N	269. EON PREFIX NPA	N	274. SA TERM REC	OFF
263. DNIS USER	N	270. EON INH TERM CBC	N	275. OLI SCRNR	0
264. SPECIAL DNIS	N				
265. CONTEXT ID NATIVE					

Figure 8 SAMPLE TKGRP FORM 5E21(1) AND LATER SOFTWARE RELEASES

SEC. 2B: 5203 RECORD

TRUNK TRANSMISSION CLASS RECORD - TRKCL

1. GENERAL

The 5203 Record is used to determine the value of digital loss to be inserted on each connection through the 5ESS Switch. The far end offices which interface with the 5ESS Switch operate under various configurations and operating levels. To interface properly, the 5ESS Switch must insert a specified amount of digital loss dependent upon the type of connecting offices and trunks. The 5203 Record has been designed to provide the necessary data to the 5ESS Switch so that the proper loss can be inserted. Transmission levels may be affected by office options POFFLOSS or CPE and line option ELSLOSS.

1.1 Transmission Class

The key to this record is the Transmission Class. Each Transmission Class uniquely defines a specific set of characteristics that apply to various trunks in the office. The following is a suggested procedure for engineering the data required on the 5203 Record.

- A. Construct a table listing all possible configurations of the 5ESS Switch with its far end offices.
- B. The Trunk to Line Digital Loss and Trunk to Trunk Digital Loss tables, in Figure 1 and Figure 2 respectively, provide applicable data for Far End Transmission Level Point, Near End Transmission Level Point, Trunk Type and Far Office Toll Class.
- C. Assign a Transmission Class starting at 1 for each unique set of characteristics. This Transmission Class may then be used as input to the Trunk Member information on the 5204 Record.

The values entered on this form should be determined by customer (operating company) engineers. The information contained in this section is provided to aid the customer engineer in setting the values of these fields to obtain the desired digital loss insertion characteristics for each trunk transmission class. Specific values for each of these fields are suggested for an application with no special transmission requirements.

1.2 Recent Change View

The corresponding recent change view for this form is 5.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TRANSMISSION CLASS

Description: Enter the Transmission Class Number. Transmission Class is required for all Trunk Types including Announcement Trunks and Test Trunks. Transmission Class is not required for AC Jack assignments or Trunk Group members with a LTP (Logical Test Port) specified.

Required Field.

Valid Entries: 1 - 99

2.3 FAR END TRANSMISSION LEVEL POINT

Description: Enter the Transmission Level Point of the far end office. This is used to determine the digital loss to be inserted toward the line on trunk to line connections.

An exception to this is that ISDN lines, including OSPS attendants, never receive digital loss except for conference connections.

Figure 1 shows the Trunk to Line digital loss as a function of the far end type.

Far end transmission level point also affects the far to near digital loss pad during transmission tests. See Figure 2.

Deviations from recommended values may be necessary based on individual Transmission requirements.

Required Field.

Valid FAR END TRANSMISSION LEVEL POINT Entries	
Entry	Definition
N2	Far end office is analog Toll/Tandem for trunks using digital facilities.
N3	Far end office is digital Toll/Tandem for trunks using digital facilities.
0	Far end office is Local/Tandem for trunks using digital facilities.
3	Software Release: 5E3 and later. All far-end connections, for trunks using analog facilities. Also for digital trunks connecting to a PBX.
5	Far end office is No. 1 Trunk Concentrator for trunks using digital facilities.

2.4 NEAR END TRANSMISSION LEVEL POINT

Description: Enter the Transmission Level Point of the near end office.

The near end TLP (Transmission Level Point) is used to determine loss only on trunk-trunk connections. The valid values of near end TLP are TLP0 and TLPN3. If both trunks have a near end TLP of TLPN3, no digital loss is inserted in either direction. If either trunk in the connection has near end TLP set to TLP0, loss may be inserted when connecting a digital trunk to an analog trunk. The amount of loss is a function of trunk type and far end toll class. See FAR OFFICE TOLL CLASS for details. The suggested value for near end TLP is TLP0 for all trunks in a local 5ESS Switch and for trunks that carry only local traffic in a local/toll 5ESS Switch. It is suggested that near end TLP be set to TLPN3 for all trunks in a toll 5ESS Switch and for trunks that carry at least some toll traffic in a local/toll 5ESS Switch. The amount of loss inserted is a function of TRUNK TYPE and FAR OFFICE TOLL CLASS (see Figure 3).

Required Field.

Valid NEAR END TRANSMISSION LEVEL POINT Entries	
Entry	Definition
0	For trunks in a local 5ESS Switch office, or, trunks which carry local traffic <i>only</i> in a local/toll 5ESS office.
N3	For trunks performing both local and toll functions in a local/toll 5ESS office, or, trunks performing toll <i>only</i> functions in a local/toll 5ESS office.

2.5 TRUNK TYPE

Description: TRUNK TYPE is used in conjunction with FAR OFFICE TOLL CLASS in determining loss on trunk-trunk connections when either trunk has a NEAR END TLP equal to TLP0. See FAR OFFICE TOLL CLASS for details. TRUNK TYPE has two valid values: DIGITAL and ANALOG.

It is recommended that trunks that use digital facilities throughout be set to DIGITAL and trunks that use analog facilities be set to ANALOG.

Valid TRUNK TYPE Entries

Entry	Definition
ANALOG	A trunk that uses Analog facilities. Also for digital trunks connecting to a PBX.
DIGITAL	A trunk that uses Digital Transmission facilities.

2.6 FAR OFFICE TOLL CLASS

Description: Enter the Toll Class of the far end office.

FAR OFFICE TOLL CLASS is used in conjunction with TRUNK TYPE to determine loss only on trunk-trunk connections when either trunk has its NEAR END TLP set to TLP0. FAR OFFICE TOLL CLASS is a numerical value, 0 - 5, that identifies toll class of the far end office. 5 - denotes local or tandem. This should also be used for tie trunks when the 5ESS Switch is being used as a PBX. 1, 2, 3, 4 - denotes toll office. The table in Figure 2 gives the digital loss that is inserted in trunk-trunk connections when either trunk has a NEAR END TLP other than TLPN3

Required Field.

Valid FAR OFFICE TOLL CLASS Entries

Entry	Definition
1 - 4	Toll Offices
5	Local or Tandem offices and is also valid for tie trunks when the 5ESS Switch is being used as a PBX.

TRUNK TO LINE DIGITAL LOSS FOR 5E3 AND LATER SOFTWARE RELEASES

FAR END TLP	N3	N2	N1	0	1	2	3	4	5
LOSS (dB)	6	5	4	3	2	1	0	7	8

The above table show the digital loss inserted in the direction from the trunk to the line as a function of far end transmission level point.

Figure 1 TRUNK TO LINE DIGITAL LOSS

NEAR END TLP	TRUNK TYPE	FAR END TLP			
		N3	N2	0	5
0	ANALOG	0	0	0	8
	DIGITAL	6	N/A	3	8
	COMBINED	6	5	3	8
N3	ANALOG	6	6	6	8
	DIGITAL	6	N/A	6	8
	COMBINED	6	6	6	8

The above table reflects the far to near digital loss pad for transmission tests.

Figure 2 FAR TO NEAR DIGITAL LOSS PAD FOR TRANSMISSION TESTS

		TO FAR OFFICE TOLL CLASS			
		LOCAL (TOLL CLASS = 5)		TOLL (TOLL CLASS = 1 - 4)	
		ANALOG	DIGITAL/COMB	ANALOG	DIGITAL/COMB
FROM FAR OFFICE TOLL CLASS	LOCAL	ANALOG	0	0	0
		DIGITAL	3	3	0
	TOLL	ANALOG	0	0	0
		DIGITAL	6	0	0

The above table shows the digital loss inserted in trunk-trunk connections when either trunk has a near end transmission level point other than TLPN3.

Figure 3 TRUNK TO TRUNK DIGITAL LOSS

SEC. 2C: 5204 RECORD

TRUNK FEATURES AND ASSIGNMENTS RECORD - TRUNK

1. GENERAL

The 5204 Record is used to define each member of a Trunk Group in a 5ESS Switch Office. The trunk information that is entered on this record is unique to the individual member of a Trunk Group. Trunk information that is common to the entire Trunk Group is entered on the TKGRP form (5202 Record).

1.1 CCS Trunks

When members of CCS (Common Channel Signaling) trunk groups are added to an SM (Switching Module), that SM must have tone transceivers defined in its DSU (Digital Services Unit). The TEN (Trunk Equipment Number), the DEN (Digital Equipment Number), or the NEN (Networking Equipment Number) value must have an SM value defined on an EQDS2P form (5740 Record) with at least one TYPE in the DIGITAL SERVICE CIRCUITS list equal to "LDSU2TX".

1.2 Equipment Numbers

A trunk must be assigned one of the following: a TEN (Trunk Equipment Number), DEN (Digital Equipment Number), SLEN (SLC Line Equipment Number), LTP (Logical Test Port) number, TRKOE (Trunk Office Equipment) Type, NEN (Networking Equipment Number) and Number for IDCU (Integrated Digital Carrier Units or RAF EN (Recorded Announcement Function Equipment Number). The trunk may not be assigned more than one of these equipment numbers.

1.3 TEN Assignments

Trunk Equipment Numbers represent individual trunk circuits on an analog trunk unit. A trunk unit consists of two Service Groups (0 and 1) with each Service Group having eight pack positions (0 to 7) equipped with up to eight circuit packs of various types. Each circuit pack has four circuits with the exception of the LTD (Local Test Desk) test trunk pack which has only two circuits. Analog trunk circuits are engineered in such a manner as to spread trunks of a given type across as many trunk units as possible. This is done to ensure maximum reliability when assigning trunks to particular Trunk Groups. Therefore, the following recommended guidelines are offered when arranging trunk groups:

- Spread the trunks of a given Trunk Group across as many trunk units as possible.
- Within a trunk unit, spread trunks across both Service Groups as evenly as possible.
- Within a Service Group, spread trunks across as many circuit packs (of the same type) as evenly as possible. It is also recommended that if an analog Trunk Group has ten or more members in it, the trunks should be spread equitably among the SMs. The following is an example of the recommended spread. If you have 3 SMs, SM1, SM2 and SM3 and a total of 72 trunks, then trunk members 0, 3, 6, ..., 69 should be assigned to SM1, trunk members 1, 4, 7, ..., 70 should be assigned to SM2 and trunk members 2, 5, 8, ..., 71 should be assigned to SM3. This will allow equal traffic over all SMs, rather than heavy traffic on one or two SMs and very little traffic on the remaining SMs.

1.4 Fractional DS1/ISDN PRI Interface

Effective with the 5E9(1) Software Release, the Fractional DS1/ISDN Switching Via PRI (Primary Rate Interface) feature was introduced. This feature provides the capability to initiate wide band calls, 128 kb/s

through 1536 kb/s, using ISDN (PRI-based) customer premises equipment connected to either a PRI or a ISUP trunk group. A wide band trunk group must have sufficient members defined in each wide band trunk block to carry the wide band traffic intended for the trunk group. (A wide band trunk block is defined as a set of trunk members from a single trunk group that are assigned to the same T1 facility.) For example, a 384K wide band data rate requires at least 6 trunk block members; a 1536K and 1536K wide band data rate requires at least 24 members, etc. (See Division 2, Section 6C for a more detailed discussion of this feature.)

1.5 DEN Assignments

A DEN (Digital Equipment Number) represents an individual channel on a DFI (Digital Facility Interface) pack. The DFIs are mounted on DLTUs (Digital Line and Trunk Units) which are normally spread over several SMs in the office. A trunk unit consists of six DLTUs (0 to 5) per SM with each DLTU equipped up to ten DFIs (1 to 10). Effective with 5E14 and later, SM-2000 is supported. Effective with 5E15 and later, the number of DLTUs supported is 12 (0 to 11). Each DFI connects to a particular T1 Carrier facility and consists of 24 channels (1 to 24). Therefore, the spreading of DFI channels within a Trunk Group is limited to those DFIs connecting to one or more T1 facilities serving a particular destination. When more than one T1 span serves a particular destination, the spans should be assigned to DFIs on different DLTUs.

It is also recommended that if more than one T1 span is used for a particular Trunk Group, the trunks should be spread equitably among the SMs. The following is an example of the recommended spread. If you have 3 SMs, SM1, SM2 and SM3 and a total of 72 trunks, then trunk members 0, 3, 6, ..., 69 should be assigned to SM1, trunk members 1, 4, 7, ..., 70 should be assigned to SM2 and trunk members 2, 5, 8, ..., 71 should be assigned to SM3. This will allow equal traffic over all SMs, rather than heavy traffic on one or two SMs and very little traffic on the remaining SMs.

Care must be taken to use only "trunk" DFIs when assigning DENs. These DFIs are defined by an entry of "T" in the USAGE field of the EQDUP form (5730 Record).

For 5E4(2) and later, if the TRKCLS field on the TKGRP form (5202-1 Record) is "RMSD3", then the 24 DENs in the group should be on the same DFI.

For 5E5 and later, a DFI-2 (Digital Facility Interface-2) is available. The DFI-2 will allow two T1 lines to terminate on the DLTU2 (Digital Line and Trunk Unit-2). The two T1 lines will be specified as Facility 0 and Facility 1 on the EQDUP form. Facility 0 is determined by entering a DEN with a Digital Channel number of 1 to 24. Facility 1 is determined by entering a DEN with a Digital Channel Number of 25 to 48. It is recommended to spread DEN assignments across DFIs.

For 5E9(2) and later, if "RMSD3" is entered in the TRKCLS field on the TKGRP form and DENs assigned on the TRUNK form, the members on the trunk form must be assigned on the same SM, DLTU, and DFI and assigned sequentially on all DCHANS 01-24 or 25-48.

For 5E10 and later, when TGN/MEMBs are defined on the TRUNK form with a DEN assigned and have a TRKCLS equal to "EDSL", "IFOPER", or "IFTERM" on the corresponding TKGRP form, the value of DFI MODE on the associated EQDUP form must be "D4", "FEB7", "FE8Z", "64K", "D464", or "FE64".

1.6 SLEN Assignments

An Integrated SLEN (SLC Equipment Number) represents a PBXDID trunk termination on an Integrated SLC Remote Terminal. For information about SLEN assignment see the SLCCU form (5107 Record).

1.7 NEN Assignments

For 5E9(2) - 5E12, the NEN (Networking Equipment Number) is a 10-digit OE for digital trunks on the DNU-S

(Digital Networking Unit - SONET). The NEN is composed of the Switching Module number, the DNU-S number, the Data Group number, the STS (Synchronous Transport Signal), the VT (Virtual Tributary), and the DS0 (Digital Signal Level 0). For more information on the DNU-S, see Division 2, Section 9C. See Division 8, Section 60 (EQVT form) for correlation between DNUS - TMUX Virtual Tributary number as assigned in 5ESS Switch and the VT1.5's position within the SONET Virtual Tributary Groups.

For 5E13 and later, the numbering scheme for the VT was modified to an 11-digit NEN for the DNU-VT Group Number feature (see Division 2, Section 9Q) and the NEN field on this form.

1.8 TRKOE Assignments

Effective with 5E8 and later, Trunk Office Equipment assignments were added to support IDCU (Integrated Digital Carrier Unit) RTs (Remote Terminals). The TRKOE field is a two segment field which specifies the equipment type and the equipment number. TRKOE TYPE "G" signifies an IDCU unit with a 10-digit equipment number (GEN) for a remote terminal. TRKOE TYPE "M" signifies an analog IDCU unit with an 8-digit equipment number (MEN) for a remote terminal.

1.9 LTP Assignments

Logical Test Port trunks are software-only trunks and, as such, require entries in the following columns of the 5204 Record: Trunk Group Number, Member Number, and Logical Test Port.

Logical Test Ports identify the existence and location of specific types of test equipment such as ALIT circuits, DC Jacks, TTF circuits, etc. The operational software uses these LTPs to establish connections between a testing facility and a line or trunk to be tested. Refer to Division 2, Section 2, for a description of and requirements for each LTP function.

1.10 RAF EN Assignments

A RAF EN (Recorded Announcement Function Equipment Number) represents an individual channel on a DSU2 RAF (Digital Service Unit 2 Recorded Announcement Function). Each DSU2 may be equipped with a maximum of 4 RAFs and up to 2 DSU2 units may be equipped with RAFs per SM. 32 channels may be assigned per RAF with just ANN (Announcement) channels. 20 channels may be assigned per RAF with DTA (Dial Through Announcement) channels, or RAFs with CTR (Coin Tone Receiver) channels. ANN, DTA, and CTR channels may not be mixed within an RAF.

For 5E6 and later, if "Y" is entered in the AOC field on the corresponding EQRA form (5821 Record), then a maximum of 32 AOCs (Announcement Only Channels) may be assigned per DTA or CTR RAF.

RAF DTA/CTR channels require a staggered assignment pattern which will enable 3 DTA/CTR RAFs to only use a total of 2 time slots at any one time, so that available resources are efficiently used.

Channels defined on the same SM and RAF must be assigned to the same Trunk Group. It is recommended that if any channels on a RAF are assigned, then all channels on the RAF be assigned. See Division 3, Section 2Q (5271-4 Record), when assigning announcement trunks to RAF channels.

1.11 EDSL Trunks

For EDSL (Extended Digital Subscriber Line) trunk groups with TRKCLS set to "EDSL" or "EDSLHM" on a TKGRP form, a DEN should be defined on this form with "ON" entered in the IDLE STATE field and the SUPV, IN START DIAL, OUT START DIAL, EXT. GUARD TIMING and ANSWER DELAY TIMING fields not entered.

1.12 DSL

For 5E4(2), all DSLs assigned to the same combination of SM (first three digits of an LCEN/DEN), PSU SHELF (first digit of an ISCN) and DSL GROUP (second and third digits of an ISCN) must have the same data rate. The following table shows which forms allow the definition of a DSL; which fields define the combination of SM, PSU SHELF, and DSL GROUP; and which data rates are permissible.

FORM	FIELDS	DATA RATE
AMLBDSL	LCEN, B1 ISCN	64KB (Notes 1, 2)
DSL	LCEN, D ISCN	16KB (Note 1)
	LCEN, B1 PKT ISCN	56KB or 64KB (Note 3)
	LCEN, B2 PKT ISCN	56KB or 64KB (Note 4)
	LCEN, ISCN	16KB (Note 1)
DSLAP	LCEN, ISCN	16KB (Note 1)
DSMLHLN	LCEN, D ISCN	16KB (Note 1)
	LCEN, B1 PKT ISCN	56 or 64KB (Note 3)
	LCEN, B2 PKT ISCN	56 or 64KB (Note 4)
OSPSDSL	LCEN, ISCN	16KB (Note 1)
PSISM	SM, ISCN	64KB (Note 1)
	MATE SM,	64KB (Note 1)
	MATE ISCN	
TRUNK	DEN, ISCN	56KB (Notes 1, 5)
	DEN, ISCN	56KB, 64KB (Notes 1, 6)
	DEN, ISCN	56K, 64KB, 64KB (Notes 1, 7)

- **NOTE:** 1. The data rate is pre-set by 50DA.
- **NOTE:** 2. SERVICE CLASS on the OSPSDSL form, with matching LCEN, must be "XDB".
- **NOTE:** 3. Selected in B1 PKT RATE field.
- **NOTE:** 4. Selected in B2 PKT RATE field.
- **NOTE:** 5. If TRKCLS on TKGRP form is "X75" or "X75P".
- **NOTE:** 6. If TRKCLS on TKGRP form is "PACKET".
- **NOTE:** 7. If TRKCLS on TKGRP form is "EDSL".

1.13 Logical Channel Numbers

LCNs (Logical Channel Numbers) are defined on this form for X.75P and X.75 trunks. LCNs represent SVCs (Switched Virtual Circuits) and/or PVCs (Permanent Virtual Circuits) which are used to connect CPE devices with each other in order to transmit packet switched data.

Each B-channel can define 127 possible LCNs for the purpose of establishing simultaneously active SVCs (Switched Virtual Circuits) and/or PVCs (Permanent Virtual Call/Circuits). The circuits are used to connect CPE devices with each other in order to transmit Packet-Switched Data.

SVCs exist only for the period of the call. The CPE device and the PH must interact, through CCITT specified packet communication, to set up each call, and clear the SVC after each call.

A PVC exists between CPE devices until the customer deems otherwise. There is no need to set up each call or to clear the PVC after each call.

There is a system limitation of 128 simultaneously active SVCs and/or PVCs for each PH. Congestion on the network, due to contention for available SVCs or PVCs, is handled through CCITT specified procedures, which will be explained later.

There are four categories of LCNs (PVCs and SVCs). A PVC is a permanent, two-way connection between CPE devices. An incoming SVC can only receive incoming data. A two-way SVC can transmit outgoing data or receive incoming data. An outgoing SVC can only transmit outgoing data. The terms incoming and outgoing are used from the perspective of the PH.

The CCITT has specified a required order of assigning the four categories of LCNs.

The lowest numbers (1 to x) can be used for the PVCs, if the customer wishes to have PVCs. The HIGH PVC LCN field (Highest PVC LCN) indicates the highest numbered LCN that is a PVC. For example, if the HIGH PVC LCN field is 7, that means that LCNs 1 through 7 are PVCs.

The next highest range of numbers for LCNs belongs to the incoming only SVCs. This range is indicated in the LOW INCOMING LCN field (Lowest Incoming LCN) and the HIGH INCOMING LCN field (Highest Incoming LCN).

The next highest range of numbers for LCNs belongs to the two-way SVCs. This range is indicated in the LOW 2W LCN field (Lowest Two-Way LCN) and the HIGH 2W LCN field (Highest Two-Way LCN).

The highest range of numbers for LCNs belongs to the outgoing only SVCs. This range is indicated in the LOW OUTGOING LCN field (Lowest Outgoing LCN) and the HIGH OUTGOING LCN field (Highest Outgoing LCN).

As an example, an ISCN (Integrated Services Channel Number) could define its 127 associated LCNs as follows:

HIGH PVC LCN = 7 (LCNs 1 to 7 are PVCs)

LOW INCOMING LCN = 8 HIGH INCOMING LCN = 15 (LCNs 8 to 15 are incoming SVCs)

LOW 2W LCN = 16 HIGH 2W LCN = 100 (LCNs 16 to 100 are two-way SVCs)

LOW OUTGOING LCN = 101 HIGH OUTGOING LCN = 127 (LCNs 101 to 127 are outgoing SVCs)

If PVCs are not desired, LCN 1 is available for an incoming SVC.

If PVCs and incoming SVCs are not desired, LCN 1 is available for a two-way LCN.

If PVCs, incoming SVCs, and two-way SVCs are not desired, LCN 1 is available for outgoing LCNs.

The CCITT, to minimize call collisions, has specified that a CPE device should start its search algorithm for an available LCN (SVCs only) with a two-way SVC or outgoing SVC. The PH should start its search algorithm with the highest numbered SVC that is in a ready state.

Either the HIGH PVC LCN field or the LOW INCOMING LCN and HIGH INCOMING LCN field combination or the LOW 2W LCN and HIGH 2W LCN field combination, or the LOW OUTGOING LCN and HIGH OUTGOING LCN field combination must be entered. If this is not done, there will not be any LCNs to carry packets.

1.14 E911 CAMA PSAP Trunks

Trunks that belong to an E911 CAMA PSAP trunk group (CAMA PSAP set to "Y" on the TKGRP form) must be defined on this form with IN START DIAL "DLTN", OUT START DIAL "WINK", IDLE STATE "ON", and ANSWER DELAY TIMING "N" or not entered.

If a CAMA PSAP trunk is defined with a TEN that matches the equipment number (INTERFACE MODULE, TRUNK UNIT, SERVICE GROUP, AND PACK POSITION) on an EQTUP form, and the CIRCUIT TYPE on the EQTUP form is "TRKLO" or "TKLOTOL", then TRK DIR on the TKGRP form must be "2W". When other applications use circuits "TRKLO" or "TKLOTOL", TRK DIR on the TKGRP form must be "OUT".

1.15 Recent Change View

The corresponding Recent Change View for this form is 5.5.

2. FORM ENTRIES - 5204-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *TGN

Description: Enter the Trunk Group Number.

Required Field.

Valid Entries: 1 - 4000

Data Rules:

Trunk Group numbers exceeding 999 are allowed only when all numbers in the range of 1 to 999 has been completely exhausted.

All DSU2-RAF ports (channels) on the same DSU2-RAF must be assigned to the same TGN (Trunk Group Number) on TRUNK forms, with the following one exception, the AOC (Announcement Only Channels) on DTA or CTR RAFs as defined on the EQRA form may be assigned to a different trunk group.

When MUSIC RI on the STINFO form (5402 Record) has an entry and/or "MUSIC", "PROMPT", "DISC" or "ANNOUNC" is entered in the CMD CD field with an ARG1 on the CTECT form (5460 Record), then TGN must equal the TRUNK GROUP NUMBER on an RTIDX form where ROUTE INDEX on the RTIDX form equals MUSIC RI on the STINFO form and/or ARG1 on the DTECT form. In addition, the first member, MEMB, must equal 0 on this form. Also, TRK DIR must equal "ANN" on the corresponding TKGRP form, where TGN on the TKGRP form equals TGN on this form.

For TGN/MEMB with a SLEN entry (representing Digital Carrier Line Unit equipment) and a TRKOE TYPE of "G" or "M" (representing IDCU equipment), the TGN must be defined on the TKGRP form with the following attributes set as indicated:

- CUT THRU must be blank or "N",
- DAS must be blank,
- DATARATE must be blank,
- HOLD BUSY must be "N",
- IMPULSING must be blank,
- OUTPULSING must be "DP" or "TT",
- SCR must be blank,
- TRKCLS must be "PBXDID",
- TRK DIR must be "OUT", and
- VPARATE must be blank.

when TGN/MEMBs are defined with DEN assigned on this form, and TRKCLS is "X75" or "X75P" and DATA RATE is "56K" on the TKGRP form (5202 Record), then FAC 0 DFI MODE or FAC 1 DFI MODE (whichever is appropriate) on the EQDUP form (5730-2/3/4/5 Record) must be entered with one of the following values:

"64K"

"D4"

"D464"

"FE8Z"

"FE64"

"FEB7"

when TGN/MEMBs are defined with DEN assigned on this form, and TRKCLS is "X75" or "X75P" and DATA RATE is "64K" on the TKGRP form (5202 Record), then FAC 0 DFI MODE or FAC 1 DFI MODE (whichever is appropriate) on the EQDUP form (5730-2/3/4/5) must be "64K" or "FE8Z".

when TGN/MEMBs are defined with NEN entered on this form, and TRKCLS is "X75" or "X75P" and DATA RATE is "64K" on the TKGRP form (5202 Record), then ZCS on the EQVT form (5858 Record) must be "N".

2.3 *MEMB

Description: Enter the number of the member within the Trunk Group.

Required Field.

Valid Entries: 0 - 1951

Data Rules:

For 5E3 and later, a QTY entry plus the MEMB must not be greater than 1951.

Trunk members in a Packet Switched trunk group (TRKCLS is "PACKET" or "X75P" on the TKGRP form) should be assigned contiguously.

For 5E5 and later, the maximum number of members allowed in a Packet Switched IP trunk group (TRKCLS is "PACKET" on the TKGRP form) is 32.

The maximum number of members allowed in an X.75P trunk group (TRKCLS is "X75P" on the TKGRP form) is 24.

The maximum number of members allowed in an X.75 trunk group (TRKCLS is "X75P" or "X75" on the TKGRP form) is 24.

All members of a Packet Switched IP trunk group (TRKCLS is "PACKET" on the TKGRP form) must reside on the same SM.

Members of an X.75P or X.75 trunk group may reside on different nonremoted SMs (SM USAGE on EQIM form is "IM" or "HIM"). When members of an X.75P or X.75 trunk group reside on a remoted SM (SM USAGE ON EQIM form is "ORM", "TRM" or "RSM"), all members of the trunk group must reside on the same SM.

For 5E6 and later, if MUSIC RI on the STINFO form (5402 Record) has an entry and/or "MUSIC", "PROMPT", "DISC", or "ANNOUNC" is entered in the CMD CD field with ARG1 on the CTECT form (5460 Record), the first member, MEMB, must equal 0 on this form and TGN must equal the TRUNK GROUP MEMBER on an RTIDX form (5303 Record) where ROUTE INDEX on the RTIDX equals MUSIC RI on the STINFO form and/or ARG1 on the CTECT form. Also, TRK DIR must equal "ANN" on the corresponding TKGRP form, where TGN on the TKGRP form equals TGN on this form.

For 5E9(1) and later, the following rules are associated with assignment of members in a wide band trunk group:

- TGNs entered on this form where WB RATE is equal to "MULTIRATE" on the TKGRP form need to be assigned to at least two trunk members within each wideband trunk block to achieve the full data rate desired.
- TGNs entered on this form where WB RATE set to "1536K" or "384/1536K" on the TKGRP form need to be assigned, at minimum, a full wideband trunk block (24 TGN/MEMBs defined on the TRUNK form) to achieve the full data rate desired.
- TGNs defined on the TKGRP form where WB RATE is "384K" need to be assigned at least 6 trunk members within each wideband trunk block (6 TGN/MEMBs defined on the TRUNK form) to achieve the full data rate desired.
- At most, one TGSR and/or one IDP feature can be assigned to a wideband (assigned on the TKGRP form) trunk group member.
- TGNs entered on this form with "WB RATE" entered on a corresponding TKGRP form must have a matching EQDUP form (5730 Record) where the corresponding FAC 0 DFI MODE or FAC 1 DFI MODE (which ever is appropriate) is "64K" or "FE8Z".
- TGNs entered on this form with a corresponding TKGRP form with WB RATE entered and TRKCLS set to "EDSL" must have a matching PRIGRP form (5211 Record) within a wideband trunk block where PRI TYPE is "STD".
- TGNs entered on this form with "WB RATE" entered on a corresponding TKGRP form within the same wideband trunk block must be assigned to the same SM, DLTU, DFI, FAC, and PRI GROUP.
- TGNs entered on this form with "WB RATE" entered on a corresponding TKGRP form must have their DEN values defined on the TRUNK form such that (DEN{7,8} modulo 24) must equal ((MEMB+1) modulo 24). Note that "modulo 24" means: take the remainder after division by 24. The following table provides an example of this rule:

Numbering of Trunk Members of a Wideband Trunk Group	
Member NBR	Channel Number
0	1
1	2
.	.
.	.
.	.
23	24
24	1

25	2
.	.
.	.

For ISUP trunk groups, trunk members must also be numbered sequentially and associated with the channel numbers specified in the DEN field. Also values of CLCI TRK ID must be sequential and synchronized with the channel numbers. The following table provides an example of ISUP7 trunk group data.

Numbering of Trunk Members of a Wide Band		
ISUP7 Trunk Group		
Member NBR	Channel Number	CLCI TRK ID
0	1	101
1	2	102
.	.	.
.	.	.
.	.	.
23	24	123
24	1	124
25	2	125
.	.	.
.	.	.
.	.	.
48	24	147
.	.	.
.	.	.
.	.	.

2.4 QTY

Description: The QTY (Quantity) field specifies the number of trunks to be inserted. It allows up to 24 trunks to be defined at one time.

Software Release: 5E3 and later

Required Field.

Default: 1

Valid Entries: 1 - 24

Data Rules:

A QTY greater than 1 may be specified only for trunks that have TEN, DEN, or NEN equipment numbers. Beginning with corresponding field values in the form, ODA assigns sequential Trunk Group MEMB (Member Numbers), TENS/DENS/NENs (Equipment Numbers), and CLCI TRK ID (Common Language Identity Numbers) to the new trunks.

The last trunk in the series is assigned a MEMB number equal to the sum of the MEMB field plus the QTY field minus 1, a number that must not exceed 1951. Equipment numbers are assigned to successive circuits (for TENS) or channels (for DENS/NENs). For example: after a trunk with a DEN is assigned to the last channel in a DFI, the next trunk is assigned to the first channel in the following DFI. When the DFI is the last in the DLTU, the trunk is assigned to the first DFI channel of the next DLTU.

If QTY is greater than 1, it must not be great enough that DEN increments the SM. Equipment numbers assigned as a result of the QTY field must be on the same Switching Module: the QTY field must not be a value that will cause the SM to be incremented, e.g., a trunk with DEN 00151024 cannot have QTY greater than 1 since the second trunk would have to be assigned to SM 002 (DEN = 00200101).

When computing the DEN field, ODA checks the EQDU form (5730 Record) to determine whether the maximum number of channels is 24 or 48. If an EQDU form is not found, ODA assumes 24 channels unless the channel number entered on the form is greater than 24; then it assumes 48.

The following example shows two TRUNK forms with QTY greater than 1. Although ODA expands the forms to eight entries on the Office Record, updates and changes must be made to the two original input forms.

FORM ENTRIES				
TGN	MEMB	QTY	TEN/DEN	CLCI TRK ID
7	2	3	0020001	
19	0	5	00100647	75

OFFICE RECORD				
TGN	MEMB	QTY	TEN/DEN	CLCI TRK ID
7	2	3	0020001	
7	3	3	0020002	
7	4	3	0020003	
19	0	5	00100647	75
19	1	5	00100648	76
19	2	5	00100701	77
19	3	5	00100702	78
19	4	5	00100703	79

When QTY is greater than 1, the following fields must not be entered:

LOGICAL TEST PORT

RAF EN
 SLEN
 CGASPN
 OTODPN1
 OTODPN2
 OTODPN3
 OTODPN4
 SLVLD SPN
 ISCN
 KEYING TRUNK TGN
 KEYING TRUNK TGN NO
 TALKING TRUNK TGN
 TALKING TRUNK MBR NO
 BAND
 PRIMARY SL GROUP
 PRIMARY SL MEMB
 PRIMARY SL VLINK
 MATE SL GROUP
 MATE SL MEMB
 MATE SL VLINK

Also, when QTY is greater than 1, the following fields must have values as listed:

BRCS: N
 Q921 PROC: NETWORK
 Q931 PROC: NETWORK

For 5E4(2) and later, if the TRKCLS field on the TKGRP form (5202-1 Record) is "RMSD3", the Trunk Group must have exactly 24 members. Therefore, QTY should be set to 24.

For 5E4(2) and later, if the TRKCLS field on the TKGRP form (5202-1 Record) is "TOPAS", the Trunk Group

must have no more than 5 members. Therefore, QTY should be 5 or less.

For 5E9(2) and later, when QTY is greater than 1, it must not be great enough that NEN increments the SM, i.e. if the 4 - 8 digits of the NEN is 71528, then the the 9 - 10 digits of the NEN plus the entry in QTY minus 1 (QTY - 1) must not be greater than 24. (If NEN[4,8] = 71528, then NEN[9,10] + (QTY - 1) or = 24)

2.5 TRKOE

Description: This is a two-segment field consisting of the trunk equipment type and equipment number. The first segment specifies the equipment type. The second segment specifies the trunk originating equipment number.

Software Release: 5E8 and later.

Valid Entries:

Valid TRKOE Equipment Type Entries	
Entry	Definition
G	Software Release: 5E8 and later. The TN is associated with IDCU TRKOE and the number segment must contain a 10-digit equipment number (GEN) for an RT. Software Release: 5E10 and later. an 11-digit equipment number is required.
M	Software Release: 5E8 - 5E9(2). The TN is associated with IDCU TRKOE and the number segment must contain an 8-digit equipment number (MEN) for an RT.
O	Software Release: 5E16(2) and later. OIUEN (Optical Interface Unit Equipment Number)
U	Software Release: 5E10 and later. The TN is associated with IDCU TRKOE and the number segment must contain an 10-digit equipment number (UEN) for Packet Pipe or Speech Handler trunks. This value supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B
F	Software Release: 5E15 and later. TRUNK/PLTU equipment number PLTEN (PCT (Peripheral Control and Timing) Line and Trunk Unit Equipment Number). This value supports the MSM (Multi-Service Module) on PLTU (PCT Line and Trunk Unit) feature. For more information on this feature, see Division 2, Section 7AP.
U	Software Release 5E16(2) and later. Packet Pipe or Speech Handler trunks (UEN).
V	Software Release: 5E16(2) and later. Virtual Equipment Number.

When TRKOE TYPE is "G", this IDCU Equipment Number residing on an RT consists of:

TRKOE NUMBER, TYPE G - Remote Terminal			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	XX	00 - 42
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

When TRKOE TYPE is "M", this IDCU Equipment Number residing on an RT consists of:

TRKOE NUMBER, TYPE M - Remote Terminal			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
Remote Terminal	RT	XX	01 - 31
Line	LINE	XX	01 - 99

When TRKOE TYPE is "O", this OIUEN Equipment Number consists of:

TRKOE NUMBER, TYPE O - Equipment			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
Protection Group	PG	X	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container Member	LVC MEM	X	1 - 4
Channel	CH	XX	01 - 24

When TRKOE TYPE is "U" (UEN), TRKOE NUMBER for Packet Pipe or Speech Handler trunks consists of the following:

TRKOE NUMBER, TYPE U - Packet Pipe or Speech Handler Trunks			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Packet Switch Unit	PSU	X	0 - 1
Shelf	SHELF	X	0 - 4
Channel Group Number	CHGRP	XX	00 - 15
Channel Number	CHANNEL	XXX	000 - 767

TRKOE NUMBER, TYPE F - TRUNK/PLTU equipment number PLTEN (PCT (Peripheral Control and Timing) Line and Trunk Unit Equipment Number).

Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
PCT Line and Trunk Unit	PLTU	XXX	000 - 035
PCT Facility Interface	PCTFI	X	0 - 2
Tributary	TRIB	XX	01 - 28
Channel Number	CHAN	XX	01 - 24

For 5E16(2) and later, if OE is set to "UEN", this OE Number consists of:

OE Number, Type U (5E16(2) and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Packet Switching Unit	PSU	X	0 - 1
Shelf	SH	X	0 - 4
Channel Group	CHGRP	XX	01 - 15
Channel	CHAN	XXX	001 - 127

Data Rules:

When SLEN is entered, TRKOE must not be entered.

When TRKOE is entered, all other equipment types must not be entered (TEN, DEN, SLEN, LTP and RAF EN).

When a TGN/MEMB is assigned on the TRUNK form to an SLEN (representing DCLU equipment) or to a TRKOE with a type of "G" (representing IDCU equipment), the TGN defined on the TKGRP form must be associated with the attributes defined as follows:

- CUT THRU must be "N" or not entered
- DAS must not be entered
- DATARATE must not be entered
- HOLD BUSY must be "N"
- INPULSING must not be entered
- OUTPULSING must be "DP" or "TT"

SCR must not be entered
TRK DIR must be "OUT"
TRKCLS must be "PBXDID"
VPARATE must not be entered

TRKOE TYPE "U":

When TRKOE TYPE is "U",

- IDLE STATE must be "ON".
- the following must not be entered:

BAND

IN START DIAL

CGASPN

OTODPN1

OTODPN2

OTODPN3

OTODPN4

OUT START DIAL

Primary and/or Mate CC1S6 link-pairs

- the following must be "N" or not entered:

ANSWER DELAY TIMING

BRCS

EXT. GUARD TIMING

- the Originating Equipment Numbers must be unique. I.e, the Originating Equipment number must not be duplicated on another TRUNK form.
- all associated trunk groups on the TKGRP form (5202 Record), must have a TRKCLS of "AS", "ADT", "CV", "PKTPIPE", "FRBC", "IS41", "SPCHNDLR", "3GPD", "SVC", "PCF", "PFS", or "PV".

- OE TYPE cannot be duplicated on more than one TRUNK form.

When TRKOE TYPE is "U", TRKCLS on the TKGRP form (5202-1/2/3/4/5/6/7/8/9 Record) is "FRBC" and PH TYPE on the PSUGP form (5949 Record) is "PH4", the channel component (the last three digits) of TRKOE NUMBER on the TRUNK form must be in the range of 000 to 015 for all corresponding trunk members of this trunk group.

When TRKOE TYPE is "U", TRKCLS on the TKGRP form (5202-1/2/3/4/5/6/7/8/9 Record) is "FRBC" and PH TYPE on the PSUGP form (5949 Record) is "PH22", the channel component (the last three digits) of TRKOE NUMBER on the TRUNK form must be in the range of 000 to 063 for all corresponding trunk members of this trunk group.

For 5E16(2) and later, when TRKOE is "U", each UEN must be uniquely assigned.

For 5E21(1) and later, when TRK CLASS is "SV" on the TKGRP form, OE TYPE must be "U" and PHV7 can use only channels 000-767 for last three digits of OE.

TRKOE TYPE "F":

- When QTY is greater than 1, it must not be great enough that a TRKOE TYPE of "F" increments the SM.
- When TRKOE TYPE is "F" and SUPV is entered, SUPV must be "EM2" or "RB".
- When SLEN is known or TRKOE TYPE is "A", "F", or "G", then CGASPN must not be entered.
- When ISCN is entered, DEN, NEN or TRKOE TYPE "F", "O", or "V" must be entered.
- When PRI GROUP is entered, DEN, NEN or TRKOE TYPE "F", "O", or "V" must be entered.
- When IN START DIAL or OUT START DIAL is "GRND" or "LOOP", DEN, NEN or TRKOE TYPE "F" or "O" must be entered.

TRKOE TYPE "O":

For 5E16(2) and later, when TRKOE is "O", and SUPV is entered, SUPV must be "RB".

For 5E16(2) and later, TRKOE must have a matching OIU SM, OIU, PROTECTION GRP, HVC, VT GROUP, and VT MEMBER on the EQLVC form (5763 Record).

When DCHN DESG is entered and TRKOE is "O", the last two digits of TRKOE must be 24.

5E17(1) and later:

When TRKOE is "O" (OIUEN):

and the DCS TRK is "N", TRKCLS is "BCM", "ISLPM", or "PPMEM", and TRK DIR is a value other than "SGNL" on the TKGRP form, then the AFAC ID must be entered on the EQLVC form (5764 Record).

and TRKCLS is set to "A2" and DATA RATE is "64K" on the TKGRP form, then ZCS on the EQLVC form must be "N".

TRKOE TYPE is "V":

TRKOE NUMBER, TYPE V - VEN (5E16(2) and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Facility	FAC	XXXX	0001 - 1008

For 5E16(2) and later:

When TRKOE TYPE is "V", SERV TYPE must be "CFS" on the ENETLINK form (5827 Record) for SM of TRKOE NUMBER.

All members of the Trunk Group must have either a virtual ("V") or non-virtual TRKOE TYPE.

When TRKOE TYPE is "V" (VEN), the TRKCLS on the TRKGRP form (5202 Record) must be as follows:

"BVINTOLL",
 "BVTOLLCM",
 "EDSL",
 "EDSLHM",
 "IC",
 "LATA",
 "LTOLLCON",
 "PF",
 "PFITT",
 "PRINTOLL",
 "SCINTOLL", or
 "TTOLLCON".

When TRKOE TYPE is "V" (VEN), INPUTSING and OUTPUTSING on the TKGRP for (5202 Record) must be "DCHN", or "ISUP7".

When QTY is greater than 1 and TRKOE is known, TRKOE must be "F", "M", "O", or "V".

When SLEN is known or TRKOE type is "A", "F", "G", or "O", CGASPN must not be known.

2.6 TEN

Description: Enter the Trunk Equipment Number representing a specific Analog Trunk Circuit located on a Trunk Unit. Refer to Division 3, Section 2G, Trunk Equipment Number (5271-1 Record), to identify the restrictions for trunk assignments.

Valid Entries: a 7-digit TEN equipment number

|

TEN (TRUNK EQUIPMENT NUMBER)

Equipment		Format	Valid Entries
Switching Module (See Note)	SM	XXX	1-48 (CM1) 1-192 (CM2)
Trunk Unit	TU	X	0-7
Service Group	SVG	X	0-1
Pack	PACK	X	0-7
Circuit	CKT	X	0-3

NOTE: The number of SMs that can be provisioned on the switch is dependent on whether the switch is equipped with a CM1 or CM2 Communications Module.

When assigning TENs, certain Trunk Classes specified on the TKGRP form require Trunk Circuit Types as follows:

TRUNK CLASS	TRUNK CIRCUIT TYPE
ACJCK	4W E&M
ANNCMNT	4W E&M
TSTK	LTD Test Trunk
OTOTK	2W Loop Supv Outgoing
SES	2W Loop Supv Outgoing
BTBTK	2W Loop Supv Outgoing

The following Analog Trunk Packs have 4 circuits per pack except the LTD Test Trunk which has 2 circuits per pack.

ANALOG TRUNK PACKS

SN 102	2-wire Loop Supv Outgoing
SN 103	2-wire Loop Supv Incoming
SN 104	4-wire E&M
SN 105	2-wire E&M
SN 107	LTD Test Trunk
SN 112	Toll 2-wire Loop Supv Outgoing
SN 113	Toll 2-wire Loop Supv Incoming
SN 114	Toll 4-wire E&M
SN 115	Toll 2-wire E&M

Analog and Digital Trunks may be assigned in the same Trunk Group.

Data Rules:

For 5E9(1) and later when a TEN is entered on a TRUNK form, the corresponding TKGRP form cannot have a value entered in the DATA RATE field.

2.7 DEN

Description: For a Digital Trunk, enter the Digital Equipment Number. Refer to Division 3, Section 2H, Digital Equipment Number (5271-2 Record), to identify the restrictions for digital trunk assignments.

Valid Entries: an 8-digit DEN

DEN (DIGITAL EQUIPMENT NUMBER)

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Line Trunk Unit	DLTU	X	0 - 5 (5E14 and earlier)
		XX	0-11

			(5E15 and later)
Digital Facility Interface	DFI	XX	01-10
Digital Channel	PACK	XX	01-48

Data Rules:

When the DCHAN entered is greater than 24, the FAC IND on the EQDUP (5730 Record) form must be 3.

Analog and Digital Trunks may be assigned in the same Trunk Group.

For Packet Switched trunks (TRKCLS is "PACKET", "X75", or "X75P" on the TKGRP form) the SM entered in this field must be defined on the EQPSU form.

All members of a Packet Switched IP trunk group (TRKCLS is "PACKET" on the TKGRP form) must reside on the same SM.

Members of an X.75 or X.75P trunk group may reside on different nonremoted SMs (SM USAGE on EQIM is "IM" or "HIM"). When members of an X.75 or X.75P trunk group reside on a remoted SM (SM USAGE on EQIM is "ORM", "TRM" or "RSM"), all members of the trunk group must reside on the same SM.

When the trunk belongs to a trunk group defined with TRKCLS "EDSL" or "EDSLHM" on the TKGRP form, the DEN cannot be entered as C OE or NC OE on a NAILUP form (5207 Record).

For 5E9(1) and later, when a DEN is entered on a TRUNK form, and the DLTU is defined on an EQDU form (5730 Record) where DLTU TYPE is not "DLTU24" or "DLTU48", then the corresponding TKGRP form cannot have a value entered in the DATA RATE field.

For 5E9(2) and later, if "RMSD3" is entered in the TRKCLS field on the TKGRP form and DEN is entered, the members on the trunk form must be assigned on the same SM, DLTU, and DFI and assigned sequentially on all DCHANS 01-24 or 25-48.

For 5E13 and later, when DEN is entered on this form, and the TKGRP form (5202 Record) has TRKCLS set to "A2" and DATA RATE is set to "56K", DFI MODE on the EQDUP form (5730 Record) must be "D4", "FEB7", "FE8Z", "FE", "64K", or "FE64".

For 5E13 and later, when DEN is entered on this form, and the TKGRP form (5202 Record) has TRKCLS set to "A2" and DATA RATE is set to "64K", DFI MODE on the EQDUP form (5730 Record) must be "64K" or "FE8Z".

For 5E13 and later, office to office distribute points must be assigned to analog or digital trunks.

- **WARNING:** It is recommended that office to office trunks and their associated distribute points be located on the same SM.

2.8 NEN

Description: Enter the NEN (Networking Equipment Number) for a DNU-S (Digital Networking Unit - SONET).

Software Release: 5E9(2) and later.

Valid Entries:

5E12 and earlier: 10-digit NEN

5E13 and later: 11-digit NEN

NEN (Networking Equipment Number) - 5E12 and earlier			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Networking Unit - SONET	DNU-S	X	0-7
Data Group	DG	X	0-1
Synchronous Transport Signal	STS	X	0-5
Virtual Tributary	VT	XX	01-28
Digital Signal Level 0	DS0	XX	01-24

NEN (Networking Equipment Number) - 5E13 and later			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Networking Unit - SONET	DNU-S	X	0-7
Data Group	DG	X	0-1
SONET Termination Equipment	STE	X	1-6
Synchronous Transport Signal	STS	X	1
Virtual Tributary Group	VTG	X	1-7
Virtual Tributary Member	VTM	X	1-4
Digital Signal Level 0	DS0	XX	01-24

Data Rules:

If QTY is greater than 1, it must not be great enough that the NEN increments the SM. Therefore, if the number representing DNU-S, DG, STS, and VT in the NEN format above is 71528, then the digits entered for DS0 in the NEN format above plus digits entered for QTY minus 1 cannot be greater than 24, (i.e., $DS0 + QTY - 1 \leq 25$).

The NENs (Networking Equipment Numbers) must be uniquely assigned on the TRUNK form. Trunks must have one and only one of the following entered TEN, DEN, NEN, SLEN, TRKOE, LTP or RAF EN.

DNU-S trunks do not require CGASPN assignments. Therefore, if NEN is entered, CGASPN cannot be entered.

If either IN START DIAL or OUT START DIAL is "GRND" or "LOOP", then DEN or NEN must be entered.

If REMOVE TRUNK is set to "Y", then TEN, DEN, or NEN must be entered.

TKGRP(s) having members with a NEN or a DEN (5E13 and later) defined must have TRKCLS equal to one of the following:

- "A2"
- "ACJCK"
- "AIS"
- "ANNCMNT"
- "ATNDVFY"
- "AUXTRNK"
- "BCM"
- "BUSYVFY"
- "BVINTOLL"
- "BVTOLLCM"
- "CAMA"
- "CAMAANI"
- "CAMAONI"
- "CAMOPKEY"
- "CAMOPTLK"

"CST1"
"CST2"
"DIOR"
"DSC"
"EDSL"
"EDSLHM"
"EISTRK"
"FIOPR"
"FOPRI"
"IC"
"IDCS"
"INAISTRK"
"ISLPM"
"IVTRK"
"LATA"
"LTOLLCON"
"OTOTK"
"PACKET"
"PBXDID"
"PF"
"PFCPE"
"PFITT"
"PFLASH"
"PRINTOLL"
"RECCMPL"
"RMSD3"
"SCINTOLL"
"SERVICE"
"SES"
"SPAB800"
"SPAM800"
"SPAMEG"
"SPAWATS"
"TOLLOPER"
"TOPAS"
"TSPS"
"TTOLLCON"
"X75"
"X75P"

If DEN or NEN is entered and the corresponding TKGRP form has TRKCLS of "CAMA", then SUPV on the TRUNK form must be "EM2" or not entered.

If NEN is entered, then OUTPUTSING must not be equal to "RPTO" on the corresponding TKGRP form.

If a NEN has been assigned on the TRUNK form, then an associated VT must exist on the EQVT form with VT EQSTAT and DS1S EQSTAT both set to "O".

For 5E12 and earlier, the associated EQVT form may be found by matching the following:
the first three digits of the NEN

with EQVT SM,
the fourth digit of the NEN
with EQVT DNUS,
the fifth digit of the NEN
with EQVT DATA GROUP,
the sixth digit of the NEN
with EQVT STS and
the seventh and eighth digits of the NEN
with EQVT VT.

For 5E13 and later, the associated EQVT form may be found by matching the following:
the first three digits of the NEN

with EQVT SM,
the fourth digit of the NEN
with EQVT DNUS,
the fifth digit of the NEN
with EQVT DATA GROUP,
the sixth digit of the NEN
with EQVT STE,
the seventh digit of the NEN
with EQVT STS,
the eighth digit of the NEN
with EQVT VT GROUP, and
the ninth digit of the NEN
with EQVT VT MEMBER.

For 5E10 and later, when EQUIPMENT TYPE is "DNUS", the corresponding eight left most digits of NEN on the TRUNK form must be entered in the PRIGRP form FACILITY LIST as SM, EQUIPMENT NUMBER[1,1], EQUIPMENT NUMBER[2,2], EQUIPMENT NUMBER[3,3], and EQUIPMENT NUMBER[4,5] respectively.

For 5E10 and later, wideband trunk members residing in the same trunk group that are within the same wideband trunk block must be assigned to the same type of equipment (i.e. they must all have a DEN assigned, or they must all have a NEN assigned on the TRUNK form).

TGN/MEMBs defined on the TRUNK form whose corresponding TKGRP form has WB RATE entered are considered to be wideband trunk members. A wideband trunk block is 24 consecutive wideband trunk members. Trunk block 0 is members 0 thru 23 defined on the TRUNK form. Trunk block 1 is members 24 thru 47 defined on the TRUNK form, and so on.

For 5E10 and later, wideband trunk members with an entry for NEN must have their NEN values defined on the TRUNK form such that $(NEN[9,10] \text{ modulo } 24) \text{ equals } ((MEMB+1) \text{ modulo } 24)$. (Note, the result of modulo division is the remainder when dividing two integer values.)

For example, if this trunk block begins with MEMB set to "0" (i.e. the first member of wideband trunk block 1), then MEMB "0" must have the last two digits of the NEN set to "01". MEMB 1 must have the last two digits of its NEN set to "02" ... and MEMB 23 must have the last two digits of its NEN set to 24.

For 5E10 and later, wideband trunk members residing in the same trunk group that are within the same wideband trunk block and have a NEN assigned, must be assigned to the same SM, DNUS, DG, STS, VT, and PRI GROUP (SM, DNUS, DG, STS and VT are represented on the TRUNK form by NEN[1,8]).

For 5E10 and later, when TGN/MEMBs on the TRUNK form have an entry for NEN, PRI GROUP entered and DCHN DESG left blank (defining an EDSL B- channel trunk), if the two right-most digits of NEN, entered on the TRUNK form, are set to 24 and the PRI GROUP, entered on the TRUNK form, is defined on a PRIGRP form, the PRI TYPE, on the PRIGRP form, must be set to "STD".

For 5E10 and later, any TGN(s) assigned on the TKGRP form with a TRKCLS equal to "EDSLHM" must have a B channel assigned on the TRUNK form. Trunk group members that have a TRKCLS equal to "EDSLHM" on the TKGRP form, a NEN entered on the TRUNK form, and a PRI GROUP entered on the TRUNK form that has a PRI TYPE of CUSTOM on the associated PRIGRP form, the last two digits of the NEN(s) on the TRUNK form must be in the range of 01-23, representing a B channel.

For 5E12 and later, if the NEN is being equipped for the VT (Virtual Tributary) and the DS1S (Digital Signal Level 1 SONET) facility on a DNU-S (Digital Networking Unit - SONET), the associated VT must be defined on the EQVT form (5858 Record) with VT EQSTAT and DS1S EQSTAT set to "O" and APPLICATION TYPE set to "TRUNK". The associated EQVT form is found by matching NEN[1,3] with EQVT SM, NEN[4] with EQVT DNUS, NEN[5] with EQVT DATA GROUP, NEN[6] with EQVT STS and NEN[7,8] with EQVT VT.

For 5E13 and later, when NEN is entered on this form, and the TKGRP form (5202 Record) has TRKCLS set to "A2" and DATA RATE is set to "64K", ZCS on the EQVT form (5858 Record) must be "N".

For 5E15 and later, when BTBDIST1 is entered and DEN or NEN is entered, SUPV must be "RB", IDLE STATE must be "ON", and OUT START DIAL must be "WINK".

2.9 SLEN

Description: Trunks can be assigned an Integrated SLEN (SLC Line Equipment Number).

Software Release: 5E6 and later

Valid Entries: an 8-digit SLEN

SLEN (SLC LINE EQUIPMENT NUMBER)		
Equipment	Format	Valid Entries

Switching Module	SM	XXX	1-192
Digital Carrier Line Unit	DCLU	X	0-7
			(5E14 and earlier)
		XX	0-15
			(5E15 and later)
Remote Terminal	RT	XX	01-06
Line Number	LN	XX	01-96

Data Rules:

A trunk needs to be assigned a SLEN if it is a DID (Direct Inward Dialing) facility terminating on an Integrated SLC remote terminal. A DID facility is a one-way trunk with loop reverse battery signaling supporting either dual-pulse or dual-tone multi-frequency outpulsing. If a SLEN is entered on this form, a TKGRP form (5202 Record) must be entered for this trunk with a TRKCLS of "PBXDID", a TRK DIR of "OUT", HOLD BUSY "N", and OUTPULSING set to "DP" or "TT".

The SLEN must be defined on a SLCCU form (5107 Record) and a SLCRT form (5106 Record). The CU TYPE for the corresponding line must be "DID" or "DIDDPT".

2.10 LTP

Description: For a software-only Trunk, enter the Logical Test Port Number. Refer to Division 8, Section 1 for procedures to obtain these assignments. Refer to Division 2 for a description of and requirements for Logical Test Port assignments.

Valid Entries: a 6-digit LTP Number

LTP (LOGICAL TEST PORT NUMBER)	
Equipment	Valid Entries
Switching Module	1-192
Logical Test Port	000-255

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

For 5E10 and later, the Switching Module(s) specified in the logical test port number must be equipped with transmission test facilities on the EQDSP form with a DSU TYPE of "TTFPROC", or on the EQGDSC3 form with a CONFIGURATION of 2, 5 or 8 on SM2000 or a CONFIGURATION of 2, 5, 7 or 8 on SM.

2.11 RAF EN

Description: Enter the Recorded Announcement Function Equipment Number.

Software Release: 5E3 and later

Valid Entries: a 6-digit RAF EN

RAF EQUIPMENT NUMBER (RAF EN)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Recorded Announcement Function	RAF	X	0-7
Channel	CHAN	XX	01-31

Data Rules:

This field must be entered if "RAF" is entered in the TRK DIR field on the TKGRP form.

If QTY is greater than 1, an entry in this field is not permitted.

For 5E6 and later, if RAF EN is entered on the TRUNK form, then RAF (Recorded Announcement Function) trunk assignments for DTA (Dial Through Announcement) channels or CTR (Coin Tone Receiver) channels must follow an assignment pattern as explained in Division 8, Section 35, and shown on the RAF Equipment Number form (5271-4 Record).

For 5E6 and later, when RAF EN is assigned to a trunk group where TRKCLS on the corresponding TKGRP form is "RAFDTA" and SVC GRP is

- "ACCS",
- "AOC",
- "COIN", or
- "DA",

then the SM (first three digits of the RAF EN) must be defined as a loaded SM on the EQIM form (CONFIGURATION is "LOADED").

For 5E9(1) and later, if RAF EN is entered, do not enter a CLCI TRK ID.

For 5E9(2) and later, RAF or SAS units with SVC GRPs of

- "ACCS",
- "AOC",
- "COIN", or
- "DA",

on the TKGRP form, either all SVC GRPs must be the same or they must be one of the following two valid combinations:

- if "ACCS" is entered for a SVC GRP on the TKGRP form for the unit, then all TKGRP forms associated with this unit have "ACCS" or "ACCS" and "AOC" entered for the SVC GRP.
- if "AOC" is entered for the SVC GRP on the TKGRP form for the unit, then all TKGRP forms associated with this unit must have

"AOC",

"AOC" and "ACCS", or

"AOC" and "COIN"

entered in the SVC GRP field.

- if "COIN" is entered for the SVC GRP on the TKGRP form for the unit, then all TKGRP forms associated with this unit must have "COIN" or "COIN" and "AOC" entered in the SVC GRP field.
- if "DA" is entered for the SVC GRP on the TKGRP form for the unit, then all TKGRP forms associated with this unit must have "DA" entered in the SVC GRP field.

A SVC GRP for a RAF or SAS unit is found by matching SWITCHING MODULE on the EQRA form to the first three digits of RAF EN on the TRUNK form and UNIT NUMBER on the EQRA form to the fourth digit of RAF

EN on the TRUNK form. The desired TKGRP form is then found by matching TGN on the TRUNK form to TGN on the TKGRP form.

For each RAF EN on a TRUNK form that has a match on an EQRA form where UNIT TYPE is "SAS", there must be a CHANNEL assigned on the EQRA form.

2.12 TRANS CLASS

Description: Enter the Transmission Class Number. This number represents the Trunk Type, the Transmission Level, and the Toll Class of the Trunk Member.

Valid Entries: 1 - 99

Data Rules:

If a value is entered in this field, the value must also appear in the TRANSMISSION CLASS field on the TRKCL form (5203 Record).

For 5E4(2) and later, if the TRKCLS field on the TKGRP form (5202-1 Record) is "RMSD3" or "TOPAS", the TRUNK TYPE field on the corresponding TRKCL form (5203 Record) must be "DIGITAL".

This field must not be entered if RAF EN is entered.

For 5E6 and later, if "LTP", "ACJCK", "RAFCTR", "RAFDTA", or "RAFANNC" is entered in the TRKCLS field on the TKGRP form, then the TRANS CLASS field must be blank; for 5E8 and later, TRANS CLASS must also be blank if TRKCLS is "TSTK".

2.13 SUPV

Description: This field defines the type of supervision for the trunk.

Valid SUPV Entries	
Entry	Definition
RB	Reverse Battery. Required for Loop Incoming, Outgoing or Test Trunks.
EM2	Required for E&M type trunks when Type 2 signaling or Type 1 for digital trunks is desired. Ground on SB Lead originates at the Trunk Circuit.
EM3	Required for E&M type trunks when Type 3 signaling is desired. Ground on SB Lead originates at the Signaling circuit.
EM4	Software Release: 5E7 and later. E&M option 4.
EM5	Software Release: 5E7 and later. E&M option 5.

Data Rules:

For DENs and LTPs, this field should be left blank; a value of "EM2" will be automatically assigned.

For 5E8 and later, if SLEN is entered or if TRKOE TYPE is "G" or "M", SUPV must be "RB".

2.14 IDLE STATE

Description: This field defines the condition of a trunk when it is in an idle state. Onhook is defined as battery on the ring, while Offhook is defined as battery on the tip.

If dial pulse terminating channel units are used for CCS7 trunks, IDLE STATE should be offhook. Not using "OFF" in such a connection could result in a poorer quality transmission path.

Required Field.

Default: ON

Valid Entries:

Valid IDLE STATE Entries	
Entry	Definition
ON	Onhook
OFF	Offhook

Data Rules:

When dial pulse terminating Channel Units are used for CCS7 trunks, this field should be set to "OFF".

IDLE STATE must equal "ON" when IN START DIAL is not equal to "DLAY".

IDLE STATE must equal "ON" when OUT START DIAL is not equal to "DLAY".

2.15 IN START DIAL

Description: This field describes the signal transmitted from the 5ESS Switch office to indicate when dialing will commence on Incoming or Two Way Trunk Groups.

For FX trunks, IN START DIAL should be "GRND" rather than "LOOP". Ground start FX trunks are able to detect supervision. Loop start FX trunks cannot detect or return supervision, and the trunk will not be released on unanswered calls.

Valid IN START DIAL Entries	
Entry	Definition
IMED	Immediate Dial.
WINK	Wink Start Signaling.
DLAY	Delay Dial.
DLTN	Dial Tone.
DIRC	Incoming Direct Connect Trunks.
GRND	FX trunk with Ground Start supervision.
LOOP	FX trunk with Loop Start supervision.
WNKDT	Software Release: 5E3 and later. Wink Start and Dial Tone.
ANSDTONE	Software Release: 5E4(2) and later. Answer Supervision/Dial tone. This value provides answer supervision along with dial tone start signal on incoming trunks when the 5ESS Switch is configured as a PBX.

Data Rules:

If this field equals "DIRC", then the DIR CON DN field of the associated TKGRP form must contain a valid Telephone Number. Additionally, if this is an FX trunk with a TRKCLS of "PF" or "PFLASH", then OUT START DIAL must equal "GRND" or "LOOP" and it must have a DEN (Digital Equipment Number).

For 5E8 and later, if SLEN is entered or if TRKOE TYPE is "G" or "M", IN START DIAL must be blank.

For private facility trunks that are not CPE or FX and have a TRKCLS of "PF" or "PFLASH" entered on the TKGRP form, if the CUT THRU field on the TKGRP form is "Y" on the outgoing end of the trunk, then the following is a list of valid combinations of OUT START DIAL and IN START DIAL values.

OUT START DIAL (Outgoing End)	IN START DIAL (Incoming End)
IMED	DLTN
WINK	WINK

WINK	WNKDT

The recommended arrangement of start signals for cut-through operation is an OUT START DIAL value of "IMED" on the outgoing end and an IN START DIAL of "DLTN" on the incoming end.

When "WNKDT" is entered, the TRKCLS field the TRKCLS must be "TTOLLCON", "PF", or "PFLASH".

If PVN ALW on the corresponding TKGRP form (5202 Record) is set to "Y", then IN START DIAL cannot be "DIRC", "GRND", or "LOOP".

For 5E7 and later, IN START DIAL must be blank when TRK DIR is "OUT" on the corresponding TKGRP form.

For 5E7 and later, when TRKCLS on the corresponding TKGRP form is "INAISTRK":

- IN START DIAL must be "DIRC", "IMED", "WINK", or "DLAY". If INPULSING on the TKGRP form is "NONE", IN START DIAL must be "DIRC"; if INPULSING is not "NONE", IN START DIAL must not be "DIRC".
- a TIMING form (5520 Record) must exist where SERVICE CLASS is "INAISTRK", SIGNAL TYPE matches the value of the INPULSING field on the TKGRP form, and START SIGNAL matches the value of the IN START DIAL field on this TRUNK form.

2.16 OUT START DIAL

Description: This field describes the signal received from the far-end office to indicate when dialing will commence. It is defined for all Outgoing or Two Way Trunks. It is also defined for Incoming only trunks when IN START DIAL equals "DIRC" and the Trunk Class of the associated Trunk Group is "PF" or "PFLASH".

Valid OUT START DIAL Entries	
Entry	Definition
IMED	Immediate Dial
WINK	Wink Dial
DLAY	Delay Dial
STOP	Immediate Dial with Stop/Go. Used for Outgoing Trunks to a Tandem Office (Step-By-Step or Register-Only Tandem Offices) or to any office that does not have Immediate Dial Pulse Receiver capability.
GRND	FX trunk with Ground Start supervision
LOOP	FX trunk with Loop Start supervision

Data Rules:

For 5E6 and later, if this trunk connects to an EIS (External Information Systems), then no entry is allowed in OUT START DIAL on this form. EIS trunks have a TRKCLS entry of "EISTRK" on the TKGRP form.

If OUT START DIAL equals "GRND", IN START DIAL must equal "GRND" or "DIRC" or must not be entered. If OUT START DIAL equals "LOOP", IN START DIAL must equal "LOOP" or "DIRC" or must not be entered. No entry in both cases applies to Outgoing only trunks. If "GRND" or "LOOP" is specified here, the trunk must have a DEN (Digital Equipment Number).

When OUT START DIAL is "GRND", the "A" signaling bit will always be set to 1 causing a false indication of off-hook while testing with the TLWS (Trunk and Line Work Station).

For 5E6 and later, if this trunk is a member of a Trunk Group defined on the TKGRP form with TRKCLS "PF", "PFLASH", or "PFCPE" and CUT THRU set to "Y", then OUT START DIAL must be "IMED", "WINK",

"GRND", "LOOP", or blank.

For 5E7 and later, if this trunk is a member of a Trunk Group defined on a TKGRP form with TRKCLS "INAISTRK", OUT START DIAL must not be "STOP".

For 5E8 and later, if SLEN is entered or if TRKOE TYPE is "G" or "M", OUT START DIAL must be "WINK", "DLAY", or "IMED".

2.17 CGASPN

Description: Enter the Carrier Group Alarm Scan Point Number assigned to the carrier system of this trunk. All trunks assigned to the same carrier system must share the same Scan Point Number and be defined with a TEN (Trunk Equipment Number). Refer to Division 8, Section 1, for procedures to obtain these assignments.

Valid Entries: 9 digits in the following format

CGASPN (CGA Scan Point Number)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Scan Point Number	SPN	XX	00-30

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

For 5E9(1) and later, if CGASPN is entered then the corresponding CGASP form must have "CON" entered in the ACTION field.

2.18 OTODPN

The fields OTODPN1, OTODPN2, SLC OTODPN3, and SLC OTODPN4 that appear after the CGASPN field on Screen 1 of the form are documented under the section for the 5204-2 Record.

2.19 CLCI TRK ID

Description: Enter the Common Language Trunk Identifier. This entry is required for all CCS trunks.

Valid Entries: 0 - 9999

Data Rules:

If the trunk members are CCS7 trunks (INPULSING/OUTPULSING equals "ISUP7" on the TKGRP form), then each trunk must have a unique CLCI TRK ID for a given OPC/DPC combination on the TKGRP form.

If the trunk members are CCIS6 trunks (INPULSING/OUTPULSING equals "CCIS6" on the TKGRP form), then each trunk on which the interoffice translation test audit may be run must have a unique CLCI TRK ID. (The corresponding TKGRP form will have an entry in the NEND CLLI field.)

For 5E9(1) and later:

- Do not enter a CLCI TRK ID if RAF EN is entered.

- Wide band ISUP trunk group members that belong to the same wideband trunk block must have consecutive CLCI TRK ID values entered. When defining wideband ISUP trunk group members within a wideband trunk block, the CLCI TRK ID values entered must be defined in a consecutive manner beginning with the first member defined in the wideband trunk block. Wide band TGN/MEMBs belong to an ISUP trunk group if they have an entry in the WB RATE field on the corresponding TKGRP form and an OUTPLS entry of "ISUP7". A wideband trunk block consists of 24 consecutive wideband trunk members. Trunk block 0 corresponds with members 0 - 23 defined on the TRUNK form. Trunk block 1 corresponds with members 24 - 47 defined on the TRUNK form, and so on.

2.20 BRCS

Description: Does the trunk have BRCS (Business and Residence Custom Services) features assigned?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E3 and later, if QTY is greater than 1, then BRCS must be "N".

If BRCS is set to "Y", the associated TRUNKFA form (5205 Record) is required to assign the actual BRCS feature names to the given TGN/member combination.

For most situations, all trunks in a particular Trunk Group will be assigned the same set of BRCS features or there will not be any feature name assigned at all. The recommended method of data entry for this case is to set the BRCS field on the TKGRP form to "Y" and make one corresponding TKGRPFA form (5206 Record) entry that defines all of the BRCS feature names that are common to all members of the Trunk Group. The corresponding trunk forms would have the BRCS field set to "N" by default.

If a particular Trunk Member is assigned a different set of BRCS features than the majority of the Trunk Members, then set the BRCS field to "Y" and assign the feature names on the TRUNKFA form. It is important to remember that the TRUNKFA Feature Names take precedence over TKGRPFA Feature Names if both forms are present for the same Trunk Group.

Both DEN and TEN type trunks may be associated with BRCS. LTP type trunks may never be associated with BRCS either here or via the TKGRP forms.

For 5E4(2) and later, if the TRKCLS field on the TKGRP form (5202-1 Record) is "RMSD3", "TOPAS", "EDSL" or "EDSLHM", then BRCS must be "N".

For 5E6 and later, if this trunk is dedicated to ASP (Advanced Services Platform) via the default ASP DAS by having DAS on the corresponding TKGRP form (5202 Record) equal to PVN DAS on the OFCOPT form (5509 Record), then BRCS must be "N". If the trunk is dedicated to ASP via a virtual ASP DAS by having DAS on the TKGRP form equal to a DAS whose functionality is similar to PVN DAS on the OFCOPT form, then BRCS should be "N". See the ASP DIALING PLAN section in the ASP feature description, Division 2, Sections 4A51 and 4A126, for further details on the dangers of assigning BRCS features to trunks dedicated to ASP services.

2.21 SLVD SPN

Description: Sleeve Lead Scan Point is associated with the PFA (Private Facilities Access) BRCS feature.

The scan point is used to monitor customer premise equipment for the PFA feature.
Valid Entries: See the following format for a Scan Point Number.

SLVD SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Scan Point Number	SPN	XX	00-30

Data Rules:

The following trunk restrictions must be followed:

- The trunk type must be an analog TEN value.
- If a sleeve lead is required for control of Supervision, then the associated TRKCLS value on the corresponding TKGRP form must equal "PFCPE" which designates that customer premise equipment is present and requires Sleeve Lead Supervision. Therefore, every trunk in a Trunk Group with TRKCLS set to "PFCPE" requires this entry. The physical trunk does not have to be assigned any BRCS features.
- SUPV must equal "RB".
- The TRK DIR field on the TKGRP form must be "OUT".
- The IN START DIAL and OUT START DIAL fields must be blank.
- If Sleeve Lead Supervision is not required for the Customer Premise Equipment, the Trunk Group should have TRKCLS set to "PF" and this field should not be entered.

With 5E3 and later Software Releases, if QTY is greater than 1, then an entry in this field is not permitted.

2.22 REMOVE TRUNK

Description: Does this trunk have to be removed and busied during module stand-alone operation?

Software Release: 5E4(2) and later

Default: N

Data Rules:

If "Y" is entered in this field, then an entry is required in either the TEN or DEN fields.

Also, if "Y" is entered, the TRKCLS field on the corresponding TKGRP form must have an entry of "TCITT", "FIOPR", or "DIOR".

If this field is "Y", the STAND ALONE field must be set to "Y" on the associated EQIM form (5700-1/2 Record) or the STAND ALONE PURCHASED? field must be set to "Y" on the associated EQSITE form (5722 Record).

2.23 ISCN

Description: Enter the Integrated Services Channel Number of this Trunk.

Software Release: 5E3 and later

Valid Entries: See the following format for an ISCN Number.

ISCN consists of:

INTEGRATED SERVICES CHANNEL NUMBER (ISCN)		
Equipment	Format	Valid Entries
SHELF	X	0-4
CHL GRP	XX	0-15
CHL	XXX	0-127

Data Rules:

If this field is entered, then DEN must also be entered.

If QTY is greater than 1, then an entry in this field is not permitted.

An ISCN must be a unique value within a given SM. ISCNs cannot be duplicated on one or more of the following forms:

AMLBDSL
 CCLNK
 DSL
 DSLAP
 DSLUSR
 MDLNK
 MISLINK
 ODBRES
 OSPSDSL
 PSISM
 RTERM
 TRUNK
 XAT.

SM/ISCNs assigned on this form must have a corresponding combination of SM, PSU, PSU SHELF and GRP entered on the PSUGP form.

Each ISCN entry must have the SHELF value (the first character of the ISCN) assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

Enter PH Channel 0 for interswitch trunks and EDLS D-channels. The entire Protocol Handler is dedicated to these facilities, so they can only have one channel assigned and that channel has to be PH Channel 0.

If the trunk defined on this form is assigned an ISCN, the trunk must be a PRI or packet switching trunk, indicated on the TKGRP form with a TRKCLS of "EDSL", "IFOPER", or "IFTERM" and TRK DIR of "SGNL", or with a TRKCLS of "PACKET", "X75P", or "X75".

Trunks belonging to a trunk group that has a TRKCLS of "PACKET", "X75", or "X75P" cannot have combinations of ISCN SHELF and CHL GRP entries that duplicate those for the same SM on AMLBDSL, DSL, DSLAP, DSLUSR, ODBRES, OSPSDSL, RTERM, or XAT forms, or on TRUNK forms where TRKCLS is "EDSL", "IFTERM", or "IFOPER".

For Packet Switched trunks (TRKCLS is "PACKET", "X75P" or "X75" on the TKGRP form), the SM entered in this field must be defined on the EQPSU form. Also, for packet switched trunks, a DEN must be entered for this TGN.

For 5E7 and later, a value of 000 for the last three digits of ISCN is only required for "PACKET", "X75", and "X75P" trunks on a PH2.

For 5E7 and later, "PACKET", "X75", and "X75P" trunks on a PH3 must have the last three digits of the ISCN in the range of 000 to 020 in multiples of 4 (000,004,008,012,016,020 are valid). This allows a maximum of 6 trunk members per PH3. It is recommended to have a maximum of 4 trunk members per PH3 for X75 and X75P trunks. The trunk class must be the same for trunk members on a PH3.

For 5E16(2) and later, when ISCN is entered, DEN must be known, NEN must be known, or TRKOE type must be "F", "O" or "V".

2.24 PSCLI

Description: Enter the protocol software change level indicator.

Software Release: 5E5 and later

Valid Entries: PSIFO

Data Rules:

This field is used only for OSPS EDSL D-channels and is required when the corresponding TKGRP form has a TRKCLS of "IFTERM" or "IFOPER" and a TRK DIR of "SGNL".

2.25 INHIBIT DEL

Description: This field is used to indicate whether or not deletion is inhibited for this trunk member.

Software Release: 5E13 and later

Valid Entries: Y, N

■ **NOTE:** INHIBIT DEL must be set to "N" before deletion of this trunk member will be allowed.

2.26 LEAST IDLE

Description: Is this a trunk member of a trunk group having a HUNT TYPE of "MLIDL" (Most Idle - Least Idle) as belonging to one of two subgroups, either the most idle trunk queue or the least idle trunk queue?

A trunk must be assigned to one, and only one, of these two subgroups before it can be hunted using MLIDL trunk hunting. For more information, see Division 2, Section 1BT.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

■ **NOTE:** "Y" is for trunk member hunted on a least idle basis, "N" is for trunk member hunted on a most idle basis.

Data Rules:

When LEAST IDLE is set to "Y" on a TRUNK form the HUNT TYPE on the related TKGRP form must be

"MLIDL". The TRUNK form and the TKGRP form are related through the TGN attribute.

2.27 OTODPN 1

Description: If the trunk is associated with Office-to-Office Testing, assign two distribute points, one for OTODPN 1 and one for OTODPN 2, from the same distribute pack.

It is recommended that the Loop Outgoing Trunks (SN102) and their associated Distribute Points selected for Office-to- Office Testing be located in the same Switching Module. This would reduce real time delay caused by message communication between SMs.

Refer to Division 8, Section 1, for procedures to obtain these assignments.

A digital trunk interface, in conjunction with an IAD (Integrated Analog to Digital Converter) or D4 channel bank, serves as a replacement for the SN102 OTO (Office to Office) analog trunk circuit in the new office supporting 5E13 and beyond. For more information, see Division 2, Section 1BZ.

Software Release: 5E3 and later

Valid Entries: See the following format for a Distribute Point Number.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-30

Data Rules:

With 5E3 and later Software Releases, if QTY is greater than 1, then an entry in OTODPN 1 is not permitted.

For 5E13 and later:

Office to Office distribute points must be assigned to analog or digital trunks.

When OTODPN1 and DEN are entered, then SUPV must be "RB", IDLE START must be "ON" and OUT START DIAL must be "WINK".

When OTODPN1 and TEN are entered, then SUPV must be "RB", IDLE START must be "ON" and OUT START DIAL must be "WINK" or "IMED".

- **WARNING:** It is recommended that office to office trunks and their associated distribute points be located on the same SM.

2.28 OTODPN 2

Description: If the trunk is associated with Office-to-Office Testing, assign two distribute points, one for OTODPN 1 and one for OTODPN 2, from the same distribute pack. Refer to Division 8, Section 1, for procedures to obtain these assignments.

Software Release: 5E3 and later

Valid Entries: See the following format for a Distribute Point Number.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-30

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in OTODPN 2 is not permitted.

2.29 SLC OTODPN 3

Description: If the trunk is associated with Office-to-Office testing of Integrated SLC, assign two additional distribute points, one for SLC OTODPN 3 and one for SLC OTODPN 4. If possible, all four distribute points should be assigned from the same distribute pack. All four points MUST be assigned on the same Switching Module.

Refer to Division 8, Section 1, for procedures to obtain these assignments.

Software Release: 5E3 and later

Valid Entries: See the following format for a Distribute Point Number.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU	X	0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-30

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in SLC OTODPN 3 is not permitted.

NOTE: All members, of any given Trunk Group for Office-to-Office test, must be assigned the same number of Office-to-Office distribute points. Trunk Groups with four distribute points may be used for Integrated SLC Office-to-Office testing. Only trunks with four distribute points may be used for Integrated SLC Office-to-Office testing.

2.30 SLC OTODPN 4

Description: If the trunk is associated with Office-to-Office testing of Integrated SLC, assign two additional distribute points, one for SLC OTODPN 3 and one for SLC OTODPN 4. If possible, all four distribute points should be assigned from the same distribute pack. All four points MUST be assigned on the same Switching Modules.

Refer to Division 8, Section 1 for procedures to obtain these assignments.

Software Release: 5E3 and later

Valid Entries: See the following format for a Distribute Point Number.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-30

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in SLC OTODPN 4 is not permitted.

- NOTE:** All members, of any given Trunk Group for Office-to-Office test, must be assigned the same number of Office-to-Office distribute points. Trunk Groups with four distribute points may be used for any Office-to-Office testing. Only trunks with four distribute points may be used for Integrated SLC Office-to-Office testing.

CAMA OPERATOR TRUNKS

These fields (Section 2.31 - Section 2.35) are used to associate Incoming CAMA ONI (Operator Number Identification) Trunks. A CAMA Operator Trunk consists of a Keying Trunk which is used to key the calling number into the CAMA Office and a Talking Trunk which is used to obtain the calling number from the calling party.

2.31 TRAF SAMPLED

Description: Is traffic sampling desired? Traffic Sampling for incomplete (unanswered) CAMA calls may be specified on an Incoming CAMA Trunk in a 5ESS Switch Toll Office. This condition will be indicated in the study indicator of the billing record.

Valid Entries: Y, N

2.32 KEYING TRUNK TGN

Description: If the trunk being defined is a Talking Trunk, enter the Trunk Group Number of the associated Keying Trunk.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

If both KEYING TRUNK TGN and KEYING TRUNK MBR NO fields are entered, then the combination of these two fields must be unique.

2.33 KEYING TRUNK MBR NO

Description: If the trunk being defined is a Talking Trunk, enter the Member number of the associated Keying Trunk.

Valid Entries: 0 - 1951

Data Rules:

Trunk members exceeding 999 are allowed only if the range 0 to 999 has been exhausted.

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

If both KEYING TRUNK TGN and KEYING TRUNK MBR NO fields are entered, then the combination of these two fields must be unique.

2.34 TALKING TRUNK TGN

Description: If the trunk being defined is a Keying Trunk, enter the Trunk Group Number of the associated Talking Trunk.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Trunk Group Numbers exceeding 999 are allowed only if the range 1 to 999 has been completely exhausted.

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

If TALKING TRUNK TGN and TALKING TRUNK MBR NO fields are entered and the TRKCLS field has a value of "CAMOPKEY" or "TCIKT" on the associated TKGRP form, the combination of the two fields must be unique.

If this field is entered, the TALKING TRUNK MBR NO field must be entered.

2.35 TALKING TRUNK MBR NO

Description: If the trunk being defined is a Keying Trunk, enter the Member number of the associated Talking Trunk.

Valid Entries: 0 - 1951

Data Rules:

Trunk members exceeding 999 are allowed only if the range 0 to 999 has been exhausted.

If TALKING TRUNK TGN and TALKING TRUNK MBR NO fields are entered and the TRKCLS field has a value of "CAMOPKEY" or "TCIKT" on the associated TKGRP form, combination of the two fields must be unique.

If this field is entered, the TALKING TRUNK TGN field must be entered.

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

EDSL/PRI TRUNKS

The following fields (Section 2.36 - Section 2.39) define the protocol procedures to be used by ISDN PRI trunks.

2.36 PRI GROUP

Description: This field indicates the PRI GROUP number that this trunk member is associated with. The six left-most digits of DEN and 0 (if the two right-most digits of DEN are 1 - 24) must be defined in the PRI GRP FACILITY LIST as SM/DLTU/DFI/FAC. The six left-most digits of DEN and 1 (if the two right-most digits of DEN are 25-48) must be defined in the PRIGRP FACILITY LIST as SM/DLTU/DFI/FAC.

Valid Entries:

For 5E9(2) and earlier: 1 - 4096

For 5E10 and later: 1 - 4095

Data Rules:

For 5E9(2) and earlier, if PRI GROUP is entered, DEN must be entered.

For 5E10 and later, if PRI GROUP is entered, DEN or NEN must be entered.

PRI GROUP must be entered, when TRKCLS on the corresponding TKGRP form is "EDSL" or "EDSLHM".

If an EDSL or EDSLHM B-Channel trunk (PRI GROUP entered and DCHN DESG is blank) is defined with the two right-most digits set to 24 or 48, the PRI GROUP must be defined on a PRIGRP form (5211 Record) with PRI TYPE set to "STD".

If an EDSL or EDSLHM B-channel trunk is defined, there must exist another TRUNK form with the same PRI GROUP and DCHN DESG entered (EDSL D-Channel).

For 5E10 and later, the maximum number of PRI and OSPS D-Channels can not be exceeded. A PRI D-Channel is one where both PRI GROUP and DCHN DESG are entered on the TRUNK form (a DEN or NEN may be used). An OSPS D-Channel is one where DEN[7,8] on the TRUNK form is 24 or 48, and TRKCLS on the corresponding TKGRP form is "IFOPER" or "IFTERM" (only DEN may be used). If DEN[1,3] or NEN[1,3] values on the TRUNK form match SM on the EQIM form where UNIT TYPE is an SM-2000 class processor, then the maximum number of PRI and OSPS D-Channels on the TRUNK form per SM is 640. If UNIT TYPE on the EQIM form is not "SM2000", then the maximum number of PRI and OSPS D-Channels on the TRUNK form per SM is 20.

For 5E10 and later, when TGN/MEMBs have PRI GROUP entered and DCHN DESG is blank on the TRUNK form, indicating that they are EDSL B-Channels, a maximum of 3,000 EDSL B-Channels may be assigned to an SM with an SM-2000 class processor on the EQIM form, and a maximum of 479 EDSL B-Channels otherwise. The maximum can not be exceeded. SM is found by matching DEN[1,3] or NEN[1,3] on the TRUNK form with SM on the EQIM form.

The maximum number of PRI D-Channels can not be exceeded. A PRI D-Channel is one where both PRI GROUP and DCHN DESG are entered on the TRUNK form (a DEN or NEN may be used). If DEN[1,3] or NEN[1,3] values on the TRUNK form match SM on the EQIM form where UNIT TYPE is an SM-2000 class processor, the maximum number of PRI D-Channels on the TRUNK form per SM cannot be exceeded as indicated:

For 5E10 only, the maximum is 31

For 5E11 and later, the maximum is 127

If UNIT TYPE on the EQIM form is not an SM-2000 class processor", the maximum number of PRI D-Channels on the TRUNK form per SM is 20.

The PRI GRP and eight left most digits of the OE on the TRUNK form where TRKOE OE TYPE is "O" must be entered on the PRIGRP form FACILITY LIST as SM, EQUIPMENT NUMBER, respectively, with EQUIPMENT TYPE set to "OIU".

For 5E16 and later, when PRI GROUP is entered, DEN, NEN, or OIUEN must be entered.

2.37 DCHN DESG

Description: This field indicates whether or not the D-Channel trunk is a Primary or Secondary D-channel for a PRI GROUP. If only one D-channel trunk is present for the PRI GROUP, the value "PRIM" is recommended. This field is applicable to "EDSL" D-channel trunk members only.

Software Release: 5E9(1) and later

Valid Entries:

Valid DCHN DESG Entries	
Entry	Definition
PRIM	Primary.
SEC	Secondary.

Data Rules:

If DCHN DESG is entered, ISCN, PRI GROUP, Q921 PROC and Q931 PROC must be entered, QTY must be 1 and the two right-most digits of DEN must be 24 or 48.

If DCHN DESG is not entered, Q921 PROC and Q931 PROC must not be entered.

DCHN DESG must be entered when, TRKCLS on the corresponding TKGRP form is "EDSL" and TRK DIR must be "SGNL".

If two TRUNK forms are defined for the office with the same PRI GROUP and DCHN DESG entered, one TRUNK form must have DCHN DESG set to "PRIM" and the other with DCHN DESG set to "SEC" and the PRI GROUP must be defined on a PRIGRP form (5211 Record) with PRI TYPE set to "STD". There can exist, at most, two TRUNK forms with the same value for PRI GROUP and with DCHN DESG entered for the office.

For 5E10 and later, when DCHN DESG is entered, the last two digits of NEN must be 24.

For 5E10 and later, when DCHN DESG is entered, the last two digits of DEN must be either 24 or 48.

2.38 Q921 PROC

Description: This attribute indicates which Q.921 protocol procedures are to be used by this PRI D-channel. This field applies to D-channel trunks that are members of a trunk group with TRKCLS on the TKGRP form (5202 Record) set to "EDSL" (Extended Digital Services Line). For all other trunk types, this field must be blank.

Required Field for 5E8 and earlier.

Default: For 5E8 and earlier: NETWORK

Valid Entries:

Valid Q921 PROC Entries	
Entry	Definition
NETWORK	Network Side procedures
USER	User Side procedures

Data Rules:

On a given PRI, one end must be designated as User Side while the other end must be designated as Network Side.

If Q921 PROC is "USER", then on the associated TKGRP form, TRKCLS must be "EDSL" and the last two digits of DEN (DEN[7,8]) must be either 24 or 48.

If Q921 PROC is "U", then QTY must be 1.

2.39 Q931 PROC

Description: This attribute indicates which Q.931 protocol procedures are to be used for PRI CSV and CSD calls associated with the PRI D-channel. This field applies to D-channel trunks that are members of a trunk group with TRKCLS on the TKGRP form (5202 Record) set to "EDSL" (Extended Digital Services Line). For all other trunk types, this field must be blank.

Required Field for 5E8 and earlier.

Default: For 5E8 and earlier: NETWORK

Valid Entries:

Valid Q931 PROC Entries	
Entry	Definition
NETWORK	Network Side procedures
SYMUSER	User Side procedures

Data Rules:

If Q921 PROC is "USER", then Q931 PROC must be "SYMUSER".

If Q931 PROC is "SYMUSER", then on the associated TKGRP form, TRKCLS must be "EDSL" and the last two digits of DEN (DEN[7,8]) must be either 24 or 48.

If Q931 PROC is "SYMUSER", then QTY must be 1.

ANNC TRUNKS

For 5E6 and later, the following fields (Section 2.40 - Section 2.41) give parameters for Announcement Trunks.

2.40 MUSIC SOURCE

Description: Does the trunk act as a MUSIC SOURCE? Applications for MUSIC SOURCE trunks include delay tones for modular queuing features.

Software Release: 5E6 and later

Required Field.

Default: N

Data Rules:

When MUSIC SOURCE is set to "Y", then TRK DIR must be set to "ANN".

2.41 MAXCALLS

Description: Enter the maximum number of calls that can be connected to this announcement/music port at the same time. Any attempt to attach additional calls will fail. An entry of 0 will not display on the Recent Change View and it will default to 32.

For the Music on Hold secured feature (see Division 2, Section 4A64) available with 5E7 and later, this field indicates the maximum number of simultaneous inter-SM paths that can be connected to this music source. Once an inter-SM path is established from a particular SM to the music source, multiple users on that SM may be concurrently connected to the music source via the already established inter-SM path.

Software Release: 5E6 and later

Valid Entries: 0 - 60

Data Rules:

A corresponding TKGRP form (5202 Record) where TGN fields on the TKGRP form and this form are equal, must have TRK DIR field equal to "ANN".

CCIS6 TRUNK SIGNALING

Fields Section 2.42 - Section 2.45 apply only to CCS trunks with CCIS6 signaling.

All CCS trunks with CCIS6 signaling are required to be identified with a routing label that uniquely identifies the CCS trunk. The label is made up of three parts:

- Signaling Link Group: the CNI signaling link associated with this trunk.
- Signaling Link Member: the member within the Signaling Link Group.
- Signaling Link Virtual Link: the physical link is represented by eight virtual links.

Each CCS trunk is associated with two links, a Primary Link and a Mate Link, known as a Link Pair. Each must also be assigned a Band and Member Number for a given signaling link. The Band Number is submitted on the TRUNK form, but the Band Member Number is assigned internally. A Band Number can be assigned to 16 trunk members per Link Pair combination.

The values of BAND, PRIMARY and MATE LINKS are presently administered and supplied by the CNAC (CCIS Network Administration Center). These fields are required only for CCIS6 trunks in 5E3 and later offices that interface with the CCS CNI ring database.

2.42 BAND

Description: Enter the Band Number for CCIS6 signaling. A particular Band Number can be associated with up to 16 trunk Member Numbers that share the same Primary/Mate Link Pair combination. The Band Number must be a common value for each of the Link Pair combinations.

Valid Entries: 0 - 511

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

PRIMARY AND MATE LINKS

The following fields (Section 2.43 - Section 2.45) specify the Primary and Mate Signaling Links for CCS trunks with CCIS6 signaling. The SL GROUP, MEMB, and VLINK values must be specified in pairs; one set of values for the Primary Link and one set for the Mate Link. The combinations of Primary Link values cannot equal that of the Mate Link for a particular trunk member.

2.43 SL GROUP

Description: Enter the Signaling Link Group for CCIS6 links.

Valid Entries: 0 - 63

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

2.44 SL MEMB

Description: Enter the Signaling Link Member within the Signaling Link Group.

Valid Entries: 1 - 15

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

2.45 SL VLINK

Description: Signaling Link Virtual Link. If the CCIS6 messages are using a 4.8 Kbs link, then the SL VLINK must equal 0. If a 56 Kbs link is used, then the physical link is divided into eight virtual links and valid entries are 0 - 7.

Valid Entries: 0 - 7

Data Rules:

For 5E3 and later, if QTY is greater than 1, then an entry in this field is not permitted.

DSN FEATURES

The following fields (Section 2.46 - Section 2.47) are applicable in offices with the DSN (Defense Switched Network) feature, available in 5E3 and later Software Releases.

2.46 EXT. GUARD TIMING

Description: Will Extended Guard Timing be performed on this trunk?

Valid Entries: Y, N

Data Rules:

When SLEN is entered TRKOE TYPE is "G" or "M", EXT. GUARD TIMING must be "N" or blank.

2.47 ANSWER DELAY TIMING

Description: Will Answer Delay Timing be performed on this trunk?

Valid Entries: Y, N

Data Rules:

If this trunk belongs to a trunk group defined on a TKGRP form with TRKCLS "INAISTRK", ANSWER DELAY TIMING must not be "Y".

When SLEN is entered or if TRKOE TYPE is "G" or "M", ANSWER DELAY TIMING must be "N" or blank.

TSPS TRUNKS

The following field applies only to trunks with trunk class "TSPS".

2.48 NO EXSIG

Description: If this is a TSPS trunk, should the expanded inband signaling field on the OFCOPT form be ignored?

When EXPANDED INBAND SGNLING is "Y" on the OFCOPT form, the SIGNAL field on the TKGRP form is treated as if it were set to "EXINBND", no matter what value is really assigned. If NO EXSIG is set to "Y" when EXPANDED INBAND SGNLING is "Y", EXPANDED INBAND SGNLING is ignored, and the signaling type specified in the SIGNAL field is used. This allows the telephone company to override the office parameter on a per-trunk basis.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If NO EXSIG is "Y", TRKCLS on the corresponding TKGRP form must be "TSPS", and EXPANDED INBAND SGNLING on the OFCOPT form must be "Y".

PACKET SWITCHING

The following fields (Section 2.49 - Section 2.55) are available with 5E5 and later Software Releases and refer to Level 2 and loopback parameters for packet switched trunks. These fields may be entered only when TRKCLS on the TKGRP form is "PACKET", "X75", or "X75P".

For all trunks in a "PACKET" trunk group (TRKCLS is "PACKET" on the TKGRP form) the following fields must be entered: OCU LOOPBACK, CSU LOOPBACK, LAPB ADDR, WINDOW SIZE, RETRANS N2, ACK TIME T1, AND IDLE TIME T3; IN START DIAL and OUT START DIAL must not be entered.

2.49 OCU LOOPBACK

Description: Is OCU (Office Channel Unit) loopback testing allowed on this trunk member?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

When a Packet Switched trunk group (TRKCLS is "PACKET", "X75", or "X75P" on the TKGRP form) has a DATA RATE of "64K" on the TKGRP form, this field must be "N".

2.50 CSU LOOPBACK

Description: Is CSU (Channel Service Unit) loopback testing allowed on this trunk member?

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

When a Packet Switched trunk group (TRKCLS is "PACKET", "X75", or "X75P" on the TKGRP form) has a DATA RATE of "64K" on the TKGRP form, this field must be "N".

2.51 LAPB ADDR

Description: Should Link Address A be used by the Level 2 protocol for a packet switched trunk? If "Y" is entered, Link Address A, which indicates a command frame will be used. If "N" is entered, Link Address B, which indicates a response frame will be used.

The address field identifies a frame as either a command or a response. Command frames are sent with the remote STE address and response frames are sent with the local STE address.

For an IP, X.75, or X.75' trunk (TRKCLS is "PACKET", "X75", or "X75P" on the TKGRP form) that connects two 5ESS Switches, this field must be populated with a "Y" on one switch and "N" on the other. Similarly, for an IP trunk that connects the 5ESS Switch and a 1PSS office, or an X.75 or X.75' trunk that connects the 5ESS Switch and a PPSN (Public Packet Switched Network, e.g. Tymnet), the value in this field must be the opposite of the value on the 1PSS or PPSN side.

Software Release: 5E5 and later

Valid Entries: Y, N

2.52 WINDOW SIZE

Description: Indicate the maximum quantity of sequentially numbered LAPB (Link Access Procedure B) Level 2 I-frames (Information) which the STE (Signaling Terminal) can have unacknowledged at any time. I-frames, which are data packets, are numbered sequentially applying Modulo 8 arithmetic. Modulo 8 arithmetic is strictly concerned with remainders when dividing by 8. For example, 27 Modulo 8 equals 3 because three is the remainder when 27 is divided by eight.

Software Release: 5E5 and later

Valid Entries: 2 - 7

2.53 RETRANS N2

Description: The N2 value is the maximum number of attempts made by the STE (Signaling Terminal) to successfully transmit a frame at the LAPB (Link Access Procedure B) Level 2.

Software Release: 5E5 and later

Valid Entries: 2 - 15

2.54 ACK TIME T1

Description: The T1 timer is the period of time that the originating STE waits to receive an acknowledgement for a frame from the terminating STE. The time unit is a tenth of a second.

Software Release: 5E5 and later

Valid Entries: 20 - 200, even numbers only

2.55 IDLE TIME T3

Description: Once an idle channel condition is detected, the STE will wait for a period of time, T3, for detection of a return to the active state. The duration of the T3 timer must be greater than the duration of the T1 timer to ensure that retransmission efforts are not aborted. The time unit is a full second.

Software Release: 5E5 and later

Valid Entries: 3 - 30

Data Rules:

The duration entered in the IDLE TIME T3 field must be greater than the duration in the ACK TIME T1 field. (Remember that the time unit of this field is seconds, while the time unit of ACK TIME T1 is tenths of a second.)

X.75P/ X.75 TRUNKS ONLY

The following fields (Section 2.56 - Section 2.70) are available with 5E5 and later Software Releases and refer to X.75P and X.75 packet-switched trunks, X.75 packet switched trunks are available for 5E6 and later Software Releases.

The following fields must only be defined when TRKCLS on the TKGRP form is "X75P" or "X75". At least one of the following fields must be entered for X.75P trunks: LINK ID, HIGH PVC LCN, or 2 WAY LCN.

For 5E8 and later, when X.75P and X.75 TRUNK ONLY fields are entered, all PACKET SWITCHING FIELDS must be entered.

2.56 LINK ID

Description: Enter the Gateway LINK ID for an X.75P or X.75 PVC (Permanent Virtual Circuit).

Software Release: 5E5 and later

Valid Entries: 1 - 255

Data Rules:

All LINK IDs entered on this form must be unique.

When this field is entered, the HIGH PVC LCN field must be entered.

2.57 SEND THRUPUT CLASS

Description: Enter the sending throughput class which is the bit per second rate at which a virtual call will send data.

Software Release: 5E5 and later

Required Field.

Default: 9600

Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600, or 19200.

2.58 RCV THRUPUT CLASS

Description: Enter the receive throughput class which is the bits per second rate at which a virtual call will receive data.

Software Release: 5E5 and later

Required Field.

Default: 9600

Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600, or 19200.

2.59 SEND PKT SIZE

Description: Enter the send packet size, the maximum number of data bytes that can be sent in a packet.

Software Release: 5E5 and later

Required Field.

Default: 128

Valid Entries: 128, 256

2.60 RCV PKT SIZE

Description: Enter the receive packet size, the maximum number of data bytes that can be received in a packet.

Software Release: 5E5 and later

Required Field.

Default: 128

Valid Entries: 128, 256

2.61 SEND PKT WINDOW SIZE

Description: Enter the number of data packets that the STE can have unacknowledged, on a sending basis, at any time.

Software Release: 5E5 and later

Required Field.

Default: 2

Valid Entries:

5E8 and earlier: 2 or 3

5E9(1) and later: 1 - 7

2.62 RCV PKT WINDOW SIZE

Description: Enter the number of data packets that the STE can have unacknowledged, on a receiving basis, at any time.

Software Release: 5E5 and later

Required Field.

Default: 2

Valid Entries:

5E8 and earlier: 2 or 3

5E9(1) and later: 1 - 7

2.63 HIGH PVC LCN

Description: Enter the Highest LCN (Logical Channel Number) that can be assigned to a PVC (Permanent Virtual Circuit).

Software Release: 5E5 and later

Valid Entries: 1 - 127

Data Rules:

When this field is entered, the LINK ID field must be entered.

If this field is entered, then a corresponding X75PVC form (5926 Record) may be entered with a value entered in the LCN field which is less than or equal to the value entered in this field.

For X.75P and X.75 trunks, when this field and the 2 WAY LCN fields are entered, the LOW 2 WAY LCN field must be greater than the HIGH PVC LCN field.

For 5E6 and later, when TRKCLS on the TKGRP form is "X75", at least one of the following fields must be entered: HIGH PVC LCN, LOW LCN INCOMING, LOW LCN 2 WAY or LOW LCN OUTGOING.

2.64 LCN HI TO LOW

Description: Will outgoing calls over this trunk go out on the highest available LCN and incoming calls come in on the lowest available LCN? When this field is set to "N" outgoing calls will go out on the lowest available LCN, and incoming calls will come in on the highest available LCN.

Software Release:

For X.75: 5E6 and later

For X.75': 5E8 and later

Valid Entries: Y, N

Data Rules:

When LCN HI TO LOW is entered at least one set of the LCN LOW/Hi entries under the X.75'/X.75 TRUNK ONLY heading must be entered.

If LCN HI TO LOW is "Y", then

HIGH 2 WAY LCN must be less than LOW OUTGOING LCN.

HIGH INCOMING LCN must be less than LOW 2 WAY LCN.

HIGH INCOMING LCN must be less than LOW

OUTGOING LCN.

If LCN HI TO LOW is "N", then

HIGH OUTGOING LCN must be less than LOW 2 WAY LCN.

HIGH 2 WAY LCN must be less than LOW

INCOMING LCN.
HIGH OUTGOING LCN must be less than LOW
INCOMING LCN.

2.65 LOW INCOMING LCN

Description: Enter the lowest incoming LCN for this X.75 trunk.

Software Release:
For X.75: 5E6 and later
For X.75': 5E8 and later
Valid Entries: 1 - 127

Data Rules:

If this field is entered, HIGH LCN INCOMING must be entered.

At least one of the following fields must be entered for an X.75 trunk: HIGH PVC LCN, LOW LCN INCOMING, LOW LCN 2 WAY or LOW LCN OUTGOING.

2.66 HIGH INCOMING LCN

Description: Enter the highest incoming LCN for this X.75 trunk.

Software Release:
For X.75: 5E6 and later
For X.75': 5E8 and later
Valid Entries: 1 - 127

Data Rules:

If this field is entered, LOW LCN INCOMING must be entered.

2.67 LOW 2 WAY LCN

Description: Enter the lowest 2-Way LCN (Logical Channel Number) for this X.75 trunk.

Software Release:
For X.75: 5E5 and later
For X.75': 5E8 and later
Valid Entries: Valid Entries: 1 - 127

Data Rules:

When this field is entered, the HIGH 2 WAY LCN field must be entered in order to define a range of two-way LCNs.

When both the HIGH PVC LCN and the 2 WAY LCN fields are entered, the LOW 2 WAY LCN field must be greater than the HIGH PVC LCN field.

At least one of the following fields must be entered for an X.75 trunk: HIGH PVC LCN, LOW INCOMING LCN, LOW 2 WAY LCN, or LOW OUTGOING LCN.

2.68 HIGH 2 WAY LCN

Description: Enter the highest 2-Way LCN (Logical Channel Number) for this X.75 trunk.

Software Release:

For X.75: 5E5 and later

For X.75': 5E8 and later

Valid Entries: 1 - 127

Data Rules:

When this field is entered, the LOW 2 WAY LCN field must be entered in order to define a range of two-way LCNs. The value entered in this field must be greater than or equal to the value entered in the LOW 2 WAY LCN field.

2.69 LOW OUTGOING LCN

Description: Enter the lowest outgoing LCN for this X.75 trunk.

Software Release:

For X.75: 5E6 and later

For X.75': 5E8 and later

Valid Entries: 1 - 127

Data Rules:

If this field is entered, HIGH LCN OUTGOING must be entered.

At least one of the following fields must be entered for an X.75 trunk: HIGH PVC LCN, LOW LCN INCOMING, LOW LCN 2 WAY or LOW LCN OUTGOING.

2.70 HIGH OUTGOING LCN

Description: Enter the highest outgoing LCN for this X.75 trunk.

Software Release:

For X.75: 5E6 and later

For X.75': 5E8 and later

Valid Entries: 1 - 127

Data Rules:

If this field is entered, LOW LCN OUTGOING must be entered.

PACKET SWITCHING X.75P/X.75 UTILITY INDICATORS

The following fields (Section 2.71 - Section 2.85) are available with 5E5 and later Software Releases and indicate which utilities are supported on an X.75P or X.75 trunk; X.75 packet switched trunks are available for 5E6 and later Software Releases. The following fields must be defined only when TRKCLS on the TKGRP form is "X75P" or "X75". For 5E8 and later, see Division 2, Section 5C for more information on Packet Trunk Interface Standardization.

2.71 CALL ID

Description: Is the Call Identifier indicator provisioned? The call identifier is a unique identifying number for each virtual circuit established.

Software Release: 5E5 and later

Valid Entries: Y, N

2.72 THRUPUT CLASS

Description: Is the throughput class indicator provisioned? The throughput class indicator can be used by any STE for specifying the throughput classes on a per call basis. If particular throughput classes are not requested, the default throughput class values will be used.

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If THRUPUT CLASS is "N", both SEND THRUPUT CLASS and RCV THRUPUT CLASS must be 9600.

2.73 WND SZ

Description: Is the window size indicator provisioned? The window size indicator can be used by any STE for negotiating the window sizes for each direction of transmission. If particular window sizes are not requested, the default window size values will be used.

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If WND SZ is "N", both SEND PKT WINDOW SIZE and RCV PKT WINDOW SIZE must be 2.

2.74 PACKET SIZE

Description: Is the packet size indicator provisioned? The packet size indicator can be used by any STE for negotiating the packet sizes for each direction of transmission. If particular packet sizes are not requested, the default packet size values will be used.

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

If PACKET SIZE is "N", both SEND PKT SIZE and RCV PKT SIZE must be 128.

2.75 FAST SELECT

Description: Is the fast select indicator provisioned? The fast select indicator is used for indicating that the fast select user facility applies to a particular call. The fast select feature, with no response restriction, allows a STE to respond directly with call connected packet of 128 bytes of data and clear a call request packet with 128 bytes of data.

Software Release: 5E5 and later

Valid Entries: Y, N

2.76 CUG

Description: Is the closed user group indicator provisioned? The closed user group indicator allows the establishment of virtual calls by CPEs which are members of an international CUG (Closed User Group).

Software Release: 5E5 and later

Valid Entries: Y, N

2.77 CUG OUTGOING

Description: Is the CUG (Closed User Group) with outgoing access indicator provisioned? The CUG outgoing access indicator allows the establishment of virtual calls by CPEs which are members of an international closed user group. A CUG with outgoing access allows members of a CUG to originate virtual calls to CPE devices that do not belong to any CUG (e.g., public network) or to CPE devices that belong to a CUG with Incoming Access.

Software Release: 5E5 and later

Valid Entries: Y, N

2.78 REVERSE CHARGE

Description: Is the reverse charge indicator provisioned? The reverse charge indicator allows virtual calls to be established internationally, when the called CPE will accept the charges for the call.

Software Release: 5E5 and later

Valid Entries: Y, N

2.79 ADDR MOD NOTIFY

Description: Is the called line Addressed Modified Notification provisioned? The called line Addressed Modified Notification indicator is used to indicate reasons why the called address in the call connected or clear request packet may be different from the one specified in the call request packet.

Software Release: 5E5 and later

Valid Entries: Y, N

2.80 CLR NETWORK ID

Description: Is the Clearing Network Identification code provisioned? The CNIC (Clearing Network Identification Code) indicator provides additional information on the origin of the clear request packet.

Software Release: 5E5 and later

Valid Entries: Y, N

2.81 TNIC INDICATOR

Description: Is the Transit Network Indicator provisioned? The TNIC utility indicates the number of networks that the packet has transited through.

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

For 5E8 and later, if TNIC INDICATOR is "N", then NUI BEFORE and NUI AFTER must be "N".

X75 and X75P trunks must have TNIC INDICATOR entered.

2.82 UTILITY MARKER

Description: Is the utility marker indicator provisioned? Utility markers separate X.75P and X.75 utilities to determine the beginning and ending of the signaling protocol. These utilities are supported after the utility marker to allow the 5ESS Switch to connect other switches that support these utilities in accordance with pre-1988 CCITT standards.

Software Release: 5E5 and later

Valid Entries: Y, N

Data Rules:

For 5E6 and later, this field must be set to "Y" for an X75 trunk that has TDI AFTER, TDS AFTER, TARIFF AFTER, IN RPOA AFTER, or OUT RPOA AFTER set to "Y" or blank and for 5E8 and later, NUI AFTER.

If UTILITY MARKER is "N" then the following fields may not be "Y":

- ACCESS CHAR (5E8 and later)
- CLEAR SUB NET ID
- IC PRESELECT
- NUI AFTER (5E8 and later)
- PROTOCOL CONV
- X75 ID UTILITY

For 5E10 and later, when Trunk member(s) defined on the TRUNK form belong to a Trunk Group with a Trunk Class of "X75" (the TRKCLS field on the TKGRP form), X75 Trunks must have UTILITY MARKER set to "Y" if any of the following fields are "Y".

- TDI AFTER
- TDS AFTER
- TARIFF AFTER
- IN RPOA AFTER
- OUT RPOA AFTER
- IC PRESELECT

For 5E10 and later, when Trunk member(s) defined on the TRUNK form belong to a Trunk Group with a Trunk Class of "X75P", (the TRKCLS field on the TKGRP form). X75 Trunks must have UTILITY MARKER set to "Y" if any of the following fields are "Y" or blank.

- ACCESS CHAR
- TRANS SUB NET CNT
- CLEAR SUB NET ID
- PROTOCOL CONV
- X75 ID UTILITY
- IC PRESELECT

2.83 UTILITY FLD SIZE

Description: Enter the X.75/X.75P Trunk Utility Facility Field Length. (See Division 2, Section 5C for more information on Packet Trunk Interface Standardization.)

Software Release: 5E8 and later

Valid Entries:

Valid UTILITY FLD SIZE Entries	
Entry	Definition
BASIC or B	Basic Facility/Utility Size. The basic Utility Field Size cannot exceed 63 octets and the Facility Field cannot exceed 109 octets.
EXTENDED or E	Extended Facility/Utility Size. The extended Utility Field Size could exceed 63 octets and/or the Facility Field could exceed 109 octets provided the length of the combined facility and utility fields does not exceed 172 octets. If the length does exceed 172 octets, the call will be cleared.

2.84 NUI BEFORE

Description: Should the NUI (Network User ID) exist before the Utility Marker?

If this field is left blank and NUI AFTER is "N" or left blank for X.75 or X.75P trunks, an internal default of "Y" is assigned to this field.

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field can only be entered for X.75 or X.75P trunks.

If this field is "Y", then NUI AFTER must not be "Y".

If TNIC INDICATOR is "N", then NUI BEFORE and NUI AFTER must be "N".

If a trunk member(s) defined on the TRUNK form belongs to a Trunk Group with a Trunk Class of "X75P" (the TRKCLS field on the TKGRP form), and the ACCESS CHAR field on this TRUNK form is set to "N", then NUI BEFORE must be set to "N" and NUI AFTER must be set to "N" or blank.

If NUI is not to be supported for this X.75 or X.75P trunk, then both NUI BEFORE and NUI AFTER fields must be "N".

2.85 NUI AFTER

Description: Should the NUI (Network User ID) exist after the Utility Marker?

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field can only be entered for X.75 or X.75P trunks that have UTILITY MARKER set to "Y".

If this field is "Y", then NUI BEFORE must "N".

If TNIC INDICATOR is "N", then NUI BEFORE and NUI AFTER must be "N".

If a trunk member(s) defined on the TRUNK form belongs to a Trunk Group with a Trunk Class of "X75P" (the TRKCLS field on the TKGRP form), and the ACCESS CHAR field on this TRUNK form is set to "N", then NUI BEFORE must be set to "N" and NUI AFTER must be set to "N" or not entered.

If UTILITY MARKER is "N", NUI AFTER must not be "Y".

If NUI is not to be supported for this X.75 or X.75P trunk, then both NUI BEFORE and NUI AFTER fields must be "N".

2.86 IC PRESELECT

Description: Is the Inter-exchange Carrier preselected for this trunk? Inter-Exchange Carrier (IC) Preselection Indication is a service that a Bell Operating Company (BOC) can offer to a direct-connected Packet Switched Network. This service will enable a network which is directly connected to the 5ESS ISDN sub-network, via X75 or X75P, to support IC preselection for its users (even though it may not have the routing logic necessary to determine if an IC is required to complete the call). The direct-connected network can pass the end-user's IC preselection value in the IC Preselection Indication utility over the X75 or X75P interface to the 5ESS ISDN sub-network. The 5ESS sub-network will then determine whether an IC is needed to complete the call. If an IC is needed, the IC identified in the IC Preselection Indication utility will be used to complete the call.

Software Release: 5E10 and later

Valid Entries: Y, N

Data Rules:

For 5E9(2) and earlier, this field is only applicable for X.75 trunks.

For 5E10 and later, this field applies to both X75 and X75P trunks.

If UTILITY MARKER is "N", this field cannot be "Y".

For 5E10 and later, when Trunk member(s) defined on the TRUNK form belong to a Trunk Group with a Trunk Class other than "X75" (the TRKCLS field on the TKGRP form), non-X75 Trunks must leave the following PACKET SWITCHING X.75 ONLY UTILITY INDICATORS fields blank.

- TDI BEFORE
- TDI AFTER
- TDS BEFORE
- TDS AFTER
- TARIFF BEFORE
- TARIFF AFTER
- IN RPOA BEFORE
- IN RPOA AFTER
- OUT RPOA BEFORE
- OUT RPOA AFTER
- RPOA DEL SEND
- RPOA DEL RCV
- TNIC CONFIG
- X75 ID

For 5E10 and later, when Trunk member(s) defined on the TRUNK form, belong to a Trunk Group with a Trunk Class of either "X.75" or "X.75P" (the TRKCLS field on the TKGRP form), X.75 and X.75P Trunks must have IC PRESELECT entered.

PACKET SWITCHING X.75P ONLY UTILITY INDICATORS

The following fields (Section 2.87 - Section 2.95) are available with 5E5 and later Software Releases and apply only to X.75P packet switched trunks. These fields must be defined only when TRKCLS on the TKGRP form is "X75P".

Either the X.75P Only Utility Indicators or X.75 Only Utility Indicators may be specified, but not both.

For 5E10 and later, when Trunk member(s) defined on the TRUNK form belong to a Trunk Group with a Trunk Class other than "X.75" (the TRKCLS field on the TKGRP form), non-X75 Trunks must leave the following PACKET SWITCHING X.75 ONLY UTILITY INDICATORS fields blank.

- TDI BEFORE
- TDI AFTER
- TDS BEFORE
- TDS AFTER
- TARIFF BEFORE
- TARIFF AFTER
- IN RPOA BEFORE
- IN RPOA AFTER
- OUT RPOA BEFORE
- OUT RPOA AFTER
- RPOA DEL SEND
- RPOA DEL RCV
- TNIC CONFIG
- X75 ID

2.87 TARIFF UTILITY

Description: Is the tariff utility indicator provisioned? The tariff utility indicator sends the called party information about the services provided to the calling party. The information that may be sent is an indication of the serving protocol and access line type. This is used for the AMA billing record.

Software Release: 5E5 and later

Valid Entries: Y, N

2.88 TRANSIT DELAY IND

Description: Is the Transit Delay Indicator provisioned? The Transit Delay Indicator is used to indicate the transit delay of the virtual circuit. Packet delays occur all along the path of a virtual circuit, therefore, in order to determine expected performance, all sources of delay must be measured.

Software Release: 5E5 and later

Valid Entries: Y, N

2.89 TRANSIT DELAY SEL

Description: Is the Transit Delay Selector provisioned?

Software Release: 5E6 and later

Valid Entries: Y, N

2.90 RPOA UTILITY

Description: Is the RPOA (Recognized Private Operating Agency) indicator provisioned? This utility provides a means to store the identity of up to seven transit RPOA networks in the path from the calling network to the called network.

Software Release: 5E5 and later

Valid Entries: Y, N

2.91 ACCESS CHAR

Description: Is the Access Characteristics indicator provisioned? The Access Characteristics utility is used in a Call Request, Call Connect, or Clear Request packet on an X.75P packet trunk to send billing data within the operating company sub-network packet.

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

X.75P trunks must have ACCESS CHAR entered.

If ACCESS CHAR is "Y", UTILITY MARKER must be "Y".

2.92 TRANS SUB NET CNT

Description: Should the Transit Subnetwork Count Utility Indicator be enabled? In 5E8, X.75P to X.75P transit subnetwork switching is supported. Call looping among subnetworks could arise in a LEC network due to this support. The transit subnetwork count utility can be used to detect invalid looping conditions during transit switching situations within a LEC network.

If this field is left blank for an X.75P trunk and the UTILITY MARKER is "Y", then an internal default of "Y" will be assigned.

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75P trunks and cannot be set to "Y" if UTILITY MARKER is set to "N".

2.93 CLEAR SUB NET ID

Description: Is the Clearing Subnetwork ID Utility supported on this X.75P interface? If this field is left blank for an X.75P trunk and the UTILITY MARKER is set to "Y", then an internal default of "Y" is assigned.

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75P trunks and cannot be set to "Y" if UTILITY MARKER is set to "N".

2.94 PROTOCOL CONV

Description: Is protocol conversion allowed on this X.75P interface? The purpose of this utility is to supplement the protocol information passed in the Access Characteristic utility with additional information that allows protocol screening to be performed. If this field is left blank for an X.75P trunk and the UTILITY MARKER is set to "Y", then an internal default of "Y" is assigned.

Software Release: 5E8 and later
Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75P trunks and cannot be set to "Y" if UTILITY MARKER is set to "N".

2.95 X.75 ID UTILITY

Description: Is the X.75 Identification utility for X.75P trunks supported on this X.75P interface? This field determines if the X.75 ID should be passed through X.75P trunks. If this field is left blank for an X.75P trunk and the UTILITY MARKER is set to "Y", then an internal default of "Y" is assigned.

Software Release: 5E8 and later
Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75P trunks and cannot be set to "Y" if UTILITY MARKER is set to "N".

PACKET SWITCHING X.75 ONLY UTILITY INDICATORS

The following fields (Section 2.96 - Section 2.110) are available with 5E6 and later Software Releases and refer to X.75 packet-switched trunks only. These fields must only be defined when TRKCLS on the TKGRP form is "X.75".

Either the X.75P Only Utility Indicators or X.75 Only Utility Indicators may be specified, but not both.

For 5E6 and 5E7, the default for the utilities was placing the indicator "AFTER" the utility marker. For 5E8 and later, the default is placing the indicator before the utility marker.

2.96 TDI BEFORE

Description: Is the Transit Delay Indicator supported before the utility marker?

Software Release: 5E6 and later
Valid Entries: Y, N

2.97 TDI AFTER

Description: Is the Transit Delay Indicator supported after the utility marker?

Software Release: 5E6 and later
Valid Entries: Y, N

Data Rules:

If TDI AFTER is not entered for an X.75 trunk, it will be treated as if it was set to "Y".

The TDI cannot be supported both before and after the utility marker; therefore, TDI BEFORE and TDI AFTER cannot both be set to "Y". When TDI BEFORE is "Y", TDI AFTER must be "N".

2.98 TDS BEFORE

Description: Is the Transit Delay Selector supported before the utility marker?

Software Release: 5E6 and later

Valid Entries: Y, N

2.99 TDS AFTER

Description: Is the Transit Delay Selector supported after the utility marker?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If TDS AFTER is not entered for an X.75 trunk, it will be treated as if it was set to "Y".

The TDS cannot be supported both before and after the utility marker; therefore, TDS BEFORE and TDS AFTER cannot both be set to "Y". When TDS BEFORE is "Y", TDS AFTER must be "N".

2.100 TARIFF BEFORE

Description: Is the Tariff Indicator supported before the utility marker?

Software Release: 5E6 and later

Valid Entries: Y, N

2.101 TARIFF AFTER

Description: Is the Tariff Indicator supported after the utility marker?

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

If TARIFF AFTER is not entered for an X.75 trunk, it will be treated as if it was set to "Y".

The TARIFF cannot be supported both before and after the utility marker; therefore, TARIFF BEFORE and TARIFF AFTER cannot both be set to "Y". When TARIFF BEFORE is "Y", TARIFF AFTER must be "N".

2.102 IN RPOA BEFORE

Description: Is the Incoming RPOA Indicator supported after the utility marker? For 5E8 and later for an X.75 trunk, if IN RPOA BEFORE is not entered, the system software will automatically set it to "Y".

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

For 5E6 and 5E7, if IN RPOA BEFORE is "Y", IN RPOA AFTER and OUT RPOA AFTER must be "N".

For 5E8 and later, if IN RPOA BEFORE is not entered or is "Y", OUT RPOA AFTER must not be "Y".

2.103 IN RPOA AFTER

Description: Is the Incoming RPOA Indicator supported after the utility marker? For 5E6 and 5E7 for an X.75 trunk, if IN RPOA AFTER is not entered, the system software will automatically set it to "Y".

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

For 5E6 and 5E7, if IN RPOA AFTER is not entered or is "Y", OUT RPOA BEFORE must not be "Y".

For 5E8 and later, if IN RPOA AFTER is "Y", IN RPOA BEFORE and OUT RPOA BEFORE must be "N".

2.104 OUT RPOA BEFORE

Description: Is the Outgoing RPOA Indicator supported before the utility marker? For 5E8 and later for an X.75 trunk, if OUT RPOA BEFORE is not entered, the system software will automatically set it to "Y".

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

For 5E6 and 5E7 if OUT RPOA BEFORE is "Y", OUT RPOA AFTER must be "N".

2.105 OUT RPOA AFTER

Description: Is the Outgoing RPOA Indicator supported after the utility marker? For 5E6 and 5E7 for an X.75 trunk, if IN RPOA AFTER is not entered, the system software will automatically set it to "Y".

Software Release: 5E6 and later

Valid Entries: Y, N

Data Rules:

For 5E8 and later, if OUT RPOA AFTER is "Y", OUT RPOA BEFORE must be "N".

2.106 RPOA DEL SEND

Description: Should the RPOA (Registered Private Operating Agency) be deleted before sending the packet to the remote STE (Signaling Terminal)? If this field is set to "N", the 5ESS Switch X.75 STE passes the RPOA Selection utility or the sequence of RPOA Selection utilities (without deletion) in the transmitted X.75 CRP (Call Request Packet). If this field is not entered for an X.75 trunk member, then an internal default of "Y" is assigned. (See Division 2, Section 5C for more information on Packet Trunk Interface Standardization.)

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75 trunks.

If RPOA DEL SEND is "Y" or not entered, either OUT RPOA BEFORE must be "Y" or not entered, or OUT RPOA AFTER must be "Y".

2.107 RPOA DEL RCV

Description: Should the RPOA be deleted when the packet is received by this X.75 interface from the remote STE? When this field is set to "Y", the 5ESS Switch X.75 STE discards the RPOA Selection utility (or the first RPOA Selection Utility in a sequence of RPOA Selection utilities) when it is received in an X.75 CRP, and if the contents of the RPOA parameter field identifies the network as the 5ESS Switch ISDN subnetwork.

If this field is not entered for an X.75 trunk member, then an internal default of "Y" is assigned.

Software Release: 5E8 and later

Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75 trunks.

If this field is "Y" or not entered, then either IN RPOA BEFORE must be "Y" or not entered, or IN RPOA AFTER must be "Y".

2.108 TNIC CONFIG

Description: Enter the TNIC (Transit Network Identification Code) Configuration. These TNIC CONFIG values are used to detect looping within the network. The TNIC CONFIG value is used when the switch receives an IP (Internal Protocol) Call Request Packet that contains a TNIC or ATNIC (AT&T defined TNIC) facility or a sequence of TNIC or ATNIC facilities. If this field is not entered and the CRP has duplicate TNICs, the call is cleared.

NOTE: Up to Seven unique TNIs may be present in the CRP.

If the 5ESS Switch X.75 STE determines that the network is a transit network, then the STE checks for a TNIC utility with a parameter field value that matches the TNIC field on the ISDNOPT form (5941 Record) before transmitting an X.75 CRP to the remote X.75 STE over an X.75 packet trunk.

- If "SHARED" is entered in the TNI parameter (TNIC CONFIG field on the TRUNK form) then the following occurs:
 - if the X.75 CRP to be transmitted contains at least one instance of a TNIC utility with the parameter field value matching the TNIC of the transit network 5ESS Switch, then the transit network 5ESS Switch X.75 STE does not insert its TNIC value into the X.75 CRP to be transmitted.
 - if the X.75 CRP to be transmitted does *NOT* contain a TNIC utility with the parameter field value matching the TNIC of the transit network 5ESS Switch, then the transit network 5ESS Switch X.75 STE inserts the TNIC utility into the X.75 CRP.
- If "UNIQUE" is entered in the TNI parameter (TNIC CONFIG field on the TRUNK form) then the following occurs:
 - if the X.75 CRP to be transmitted contains at least one instance of a TNIC utility with the parameter

field value matching the TNIC of the transit network 5ESS Switch, then the transit network 5ESS Switch X.75 STE clears the virtual call request because looping may occur.

- if the X.75 CRP to be transmitted does *NOT* contain a TNIC utility with the parameter field value matching the TNIC of the transit network 5ESS Switch, then the transit network 5ESS Switch X.75 STE inserts the TNIC utility into the X.75 CRP.

Software Release: 5E8 and later

Valid Entries:

Valid TNIC CONFIG Entries	
Entry	Definition
SHARED or S	The TNIC Configuration is shared.
UNIQUE or U	TNIC Configuration is unique.

Data Rules:

This field is only applicable for X.75 trunks.

2.109 X.75 ID

Description: Enter the 11-digit X.75 Trunk Interface Identification Number. This number is used to uniquely identify the X.75 trunk member used in a call and is used by the RAO (Revenue Accounting Office) to determine appropriate billing for packet calls in network configurations where the called address is not sufficient to indicate the Inter-exchange Carrier or other X.75 connected entity to be billed.

If this field is not entered for an X.75 trunk member then an internal default of 0 will be assigned.

Software Release: 5E8 and later

Valid Entries: 00000000000 - 99999999999

Data Rules:

This field is only applicable for X.75 trunks.

2.110 IC PRESELECT

Description: Is the Inter-exchange Carrier preselected for this trunk? Prior to 5E10, this field was part of Packet Switching X.75 Only Utility Indicators. For 5E10 and later, this field is part of Packet Switching X.75/X.75P Utility Indicators.

Software Release: 5E8 through 5E9(2)

Valid Entries: Y, N

Data Rules:

This field is only applicable for X.75 trunks.

If UTILITY MARKER is "N", this field cannot be "Y".

MISCELLANEOUS

Fields Section 2.111 - Section 2.112 refer to miscellaneous fields.

2.111 MF LOSS

Description: Enter the Multifrequency outpulsing additional dB loss. This field indicates any additional dB loss for multifrequency outpulsing. The additional loss can be specified in 1dB increments over a range of 0 to 7dB. This will provide a net loss range of -10dB to -17dB.

Software Release: 5E7 and later

Required Field.

Default: 0

Valid Entries: 0 - 7 (dB)

Data Rules:

When MF LOSS is greater than 0, then the corresponding TKGRP form must have

OUTPULSING set to "MF" or "TT".

TRKCLS cannot be "ATNDVIFY" (for 5E9(1) and later)

TRK DIR set to "OUT" or "2W"

2.112 ANI

Description: Is Automatic Number Identification provided on this Trunk Group? A value of "Y" applies only to trunks associated with TRKCLS (on TKGRP) set to "PF" or "PFLASH" and applies to all trunks in the group. It is used to outpulse ACSI (Automatic Customer Station Identification) before Cut Through.

Software Release: 5E6 and later

Default: N

Valid Entries: Y,N

Data Rules:

When SLEN is known, ANI must be "N".

If ANI equals "Y", TGN must be defined on the TKGRP form with a TRKCLS of "PF", "PFITT", or "PFLASH"; for 5E7 and later, it may also be "LTOLLCON".

If TGN(s) are defined on the TKGRP form with ACP SDN equals "Y", and TRKCLS equals "PF", all associated TGN/MEMB(s) must be defined on TRUNK with ANI equals "Y".

If TGN(s) are defined on the TKGRP form with CAMA PSAP equals "Y", all associated TGN/MEMB(s) must be defined on TRUNK with ANI equals "N".

All members of a trunk group must have the same value specified for ANI.

EEC OPTION

2.113 EEC ACTIVE

Description: This field is used to indicate whether EEC (External Echo Cancellation) is active for the trunk.

DIGITAL TEST TRUNKS

The following fields (Section 2.114 - Section 2.115) define digital test trunks. These fields support the No Test

Trunk feature. See Division 2, Section 7AS.

2.114 MTB0

Description: This field is used to define the Metallic Test Bus 0 for digital test trunks.

Software Release: 5E15 and later.

Valid Entries:

Valid MTB0 Entries			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SG	X	0 - 1
Board Number	BRD	XX	00 - 31
Bus Number	BUS	XX	00 - 14

Data Rules:

When MTB0/MTB1 is entered, DEN must be entered.

When MTB0 or MTB1 is entered, both must be entered.

MTB0 and MTB1 must be unique and reside on the same SM.

When MTB0 and MTB1 are entered, TRKCLS on the TKGRP form must be "TSTK".

MTB0 and MTB1 cannot be assigned to DFI channel 1 and 25; these are reserved for the control channel.

2.115 MTB1

Description: This field is used to define the Metallic Test Bus 1.

Software Release: 5E15 and later.

Valid Entries: See the Valid Entries table for MTB0.

Data Rules:

See Data Rules for the MTB0.

PACKET PIPE MEMBER TRUNK

The following fields (Section 2.116 - Section 2.117) list the packet pipe member trunks (up to 8 entries). These fields support the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B.

2.116 TGN

Description: Enter the trunk group number for the packet pipe member trunk.

Software Release: 5E10 and later.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

When PACKET PIPE MEMBER TRUNKS list is entered, then the DATA RATE fields on the corresponding TKGRP forms must all have the same value. A corresponding TKGRP form is found by matching the TGN on PACKET PIPE MEMBER TRUNKS to TGN on the TKGRP form.

For 5E12 and later:

When TGN is entered in a ROW of the PPMTRUNK list, MEMB must also be entered in that ROW.

When TGN is entered in PPMTRUNK list, it should not equal TKGRP.

2.117 MEMB

Description: Enter the trunk member number for the packet pipe member trunk.

Software Release: 5E10 and later.

Valid Entries: 0 - 1951

Data Rules:

For a PACKET PIPE MEMBER TRUNK entries both a TGN and MEMB must be entered.

A given trunk member cannot be assigned to the PACKET PIPE MEMBER TRUNKS list more than once, i.e. the PACKET PIPE MEMBER TRUNK assignments must be unique.

If the trunk members of this trunk group have one or more row entries completed in the PACKET PIPE MEMBER TRUNKS list, then "PKTPIPE" must be entered in the TKKCLS of the corresponding TKGRP form. Forms correspond if TGN entries match.

The trunk members entered on this list must all reside on the same DFI or DNU-S facility; therefore,

The first six digits of the DEN must be identical for each trunk member entered on the Packet Pipe Member Trunk List. And, the last two digits must be 01 - 24 or 25 - 48.

If PACKET PIPE MEMBER TRUNKS list is entered on the TRUNK form, then a matching TRUNK form must have a corresponding TKGRP form where TRKCLS is "PPMEM".

- A matching TRUNK form is found by matching the TGN and MEMB on PACKET PIPE MEMBER TRUNKS on the TRUNK form to TGN and MEMB on another TRUNK form.
- A corresponding TKGRP form is found by matching the TGN on PACKET PIPE MEMBER TRUNKS to TGN on the TKGRP form.

All Packet Pipe Members must be assigned the same DATA RATE on the corresponding TKGRP form.

For 5E10 and later:

If any of the Packet Pipe Members on the PPM TRUNK list reside on an RSM all must reside on the RSM.

All of the Packet Pipe Members assigned to a specific Packet Pipe Trunk must reside on the same DFI and

facility. The DFI and facility are specified by the DEN. The first 6 characters designate the DFI, characters 7 and 8 designate the facility. 01 - 24 designate FAC0 and 25 - 48 designate FAC1.

For 5E12 and later:

When MEMB is entered in a ROW of the PPMTRUNK list, TGN must also be entered in that ROW.

For 5E13 and later:

The first nine digits of the NEN must be identical for each trunk member entered on the Packet Pipe Member Trunk List and must reside on the same VT assigned to a DNU-S; up to 28 Packet Pipe Members can be assigned on the same VT.

2.118 PACKET PIPE TGN

Description: This is a Recent Change Verify only field for Packet Pipe Member trunk group numbers.

2.119 PACKET PIPE MEMB

Description: This is a Recent Change Verify only field for Packet Pipe Member trunk member numbers.

CIRCUIT TYPE	SN #	TRUNK DESCRIPTION
TRKLO	102	2-Wire Loop Supv. - Outgoing
TRKLI	103	2-Wire Loop Supv. - Incoming
TRK4EM	104	4-Wire E and M
TRK2EM	105	2-Wire E and M
TRKTST	107	LTD Test Trunk
TKLOTOL	112	Toll 2-Wire Loop Supv. - Outgoing
TKLITOL	113	Toll 2-Wire Loop Supv. - Incoming
TK4ETOL	114	Toll 4-Wire E and M
TK2ETOL	115	Toll 2-Wire E and M
N/A	N/A	Digital Trunks

NOTE: CLEI Values are unique to the equipment in each office and may be obtained via the records command for trunks in Division 8.

Figure 1 TRUNK CLASS REFERENCE GUIDE

SCREEN 1 of 6

5ESS Switch

trunk

OFFICE DATA ADMINISTRATION

(5204-1/2/3/4, 5271-1/2/3/4/5)

TRUNK

*1. TGN	_____	16. IN START DIAL	_____
*2. MEMB	_____	17. OUT START DIAL	_____
3. QTY	01	18. CGASPN	_____
4. TEN	_____	19. OTODPN1	_____
5. DEN	_____	20. OTODPN2	_____
6. NEN	_____	21. SLC OTODPN3	_____
7. SLEN	_____	22. SLC OTODPN4	_____
8. TRKOE	__ _____	23. CLCI TRK ID	_____
11. LTP	_____	24. BRCS	N
12. RAF EN	_____	25. SLVLD SPN	_____
13. TRANS CLASS	__	26. REMOVE TRUNK	N

14. SUPV	_____	27. ISCN	_____
15. IDLE STATE	ON	28. PSCLI	_____
		29. INHIBIT DEL	N
		30. LEAST IDLE	N

SCREEN 2 OF 6
5ESS Switch
trunk OFFICE DATA ADMINISTRATION
(5204-1/2/3/4,5271-1/2/3/4/5) TRUNK

```

CAMA OPERATOR TRUNKS
31. TRAF SAMPLED      _
32. KEYING TRUNK TGN  _____
33. KEYING TRUNK MBR NO  _____
34. TALKING TRUNK TGN  _____
35. TALKING TRUNK MBR NO  _____

EDSL/PRI TRUNKS
36. PRI GROUP _____
37. DCHN DESG _____
38. Q921 PROC _____
39. Q931 PROC _____

ANNC TRUNKS
40. MUSIC SOURCE N
41. MAXCALLS

CCIS6 TRUNK SIGNALING
42. BAND _____

PRIMARY LINK      MATE LINK
43. SL GROUP ____ 46. SL GROUP ____
44. SL MEMB  ____ 47. SL MEMB  ____
45. SL VLINK  _   48. SL VLINK  _

DSN FEATURES
49. EXT. GUARD TIMING  _
50. ANSWER DELAY TIMING N

TSPS TRUNKS
51. NO EXSIG N

```

SCREEN 3 OF 6
trunk
(5204-1/2/3/4,5271-1/2/3/4/5)

PACKET SWITCHING		X.75'/X.75 TRUNK ONLY	
52. OCU LOOPBACK _	59. LINK ID _____	66. HIGH PVC LCN _____	
53. CSU LOOPBACK _	60. SEND THRUPUT CLASS 9600	67. LCN HI TO LOW _____	
54. LAPB ADDR _	61. RCV THRUPUT CLASS 9600	68. LOW INCOMING LCN _____	
55. WINDOW SIZE _	62. SEND PKT SIZE 128	69. HI INCOMING LCN _____	
56. RETRANS N2 _____	63. RCV PKT SIZE 128	70. LOW 2 WAY LCN _____	
57. ACK TIME T1 _____	64. SEND PKT WINDOW SIZE 2	71. HI 2 WAY LCN _____	
58. IDLE TIME T3 _____	65. RCV PKT WINDOW SIZE 2	72. LOW OUTGOING LCN _____	
		73. HI OUTGOING LCN _____	

SCREEN 4 OF 6

5ESS Switch

trunk

OFFICE DATA ADMINISTRATION

(5204-1/2/3/4,5271-1/2/3/4/5) TRUNK

PACKET SWITCHING X.75'/X.75 UTILITY INDICATORS

74. CALL ID	—	80. CUG OUTGOING	—	86. UTILITY FLD SIZE	_____
75. THRUPUT CLASS	—	81. REVERSE CHARGE	—	87. NUI BEFORE	—
76. WND SZ	—	82. ADDR MOD NOTIFY	—	88. NUI AFTER	—
77. PACKET SIZE	—	83. CLR NETWORK ID	—	89. IC PRESELECT	—
78. FAST SELECT	—	84. TNIC INDICATOR	—		
79. CUG	—	85. UTILITY MARKER	—		

PACKET SWITCHING X.75' ONLY UTILITY INDICATORS

90. TARIFF UTILITY	—	93. RPOA UTILITY	—	96. CLEAR SUB NET ID	—
91. TRANSIT DELAY IND	—	94. ACCESS CHAR	—	97. PROTOCOL CONV	—
92. TRANSIT DELAY SEL	—	95. TRANS SUB NET CNT	—	98. X75 ID UTILITY	—

SCREEN 5 OF 6

5ESS Switch

trunk

OFFICE DATA ADMINISTRATION

(5204-1/2/3/4,5271-1/2/3/4/5)

TRUNK

PACKET SWITCHING X.75 ONLY UTILITY INDICATORS

99. TDI BEFORE	—	105. IN RPOA BEFORE	—	111. TNIC CONFIG	_____
100. TDI AFTER	—	106. IN RPOA AFTER	—	112. X75 ID	_____
101. TDS BEFORE	—	107. OUT RPOA BEFORE	—		
102. TDS AFTER	—	108. OUT RPOA AFTER	—		
103. TARIFF BEFORE	—	109. RPOA DEL SEND	—		
104. TARIFF AFTER	—	110. RPOA DEL RCV	—		

MISCELLANEOUS

EEC OPTION

113. MF LOSS 0

EEC ACTIVE N

114. ANI N

SCREEN 6 OF 6

5ESS Switch

trunk

OFFICE DATA ADMINISTRATION

(5204-1/2/3/4,5271-1/2/3/4/5)

TRUNK

116. PSU PIPE MEMBER TRUNKS (PPMTRUNK)

ROW	TGN	MEMB	ROW	TGN	MEMB	ROW	TGN	MEMB	
1	_____	_____	11	_____	_____	21	_____	_____	PSU PIPE TGN
2	_____	_____	12	_____	_____	22	_____	_____	PSU PIPE MEMB
3	_____	_____	13	_____	_____	23	_____	_____	
4	_____	_____	14	_____	_____	24	_____	_____	
5	_____	_____	15	_____	_____				
6	_____	_____	16	_____	_____				
7	_____	_____	17	_____	_____				

8	_____	_____	18	_____	_____
9	_____	_____	19	_____	_____
10	_____	_____	20	_____	_____

Figure 2 SAMPLE TRUNK FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 2D: 5205 RECORD FEATURE ASSIGNMENT TRUNK GROUP MEMBER NUMBER RECORD - TRUNKFA

1. GENERAL

The 5205 Record is available with 5E2 and later Software Releases, and is used to assign 1 to 48 BRCS features to a particular member of a Trunk Group. The TGN member must be defined on a TRUNK form (5204 Record) with the BRCS field set to "Y" (Yes).

1.1 Speed Call Features

For 5E6 and later Software Releases, Speed Call (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a trunk can be assigned an IDP feature with a Speed Call feature which counts as one feature for that trunk. However, after a retrofit from the 5E5 Software Release to the 5E6 Software Release, this trunk may have as many as three features: an IDP feature and up to two SC (Speed Call) features depending on whether or not one-digit or two-digit Speed Call has been assigned.

This may raise the count of Terminal features for that trunk above the maximum of thirty features. A trunk only may be assigned up to thirty Terminal features, therefore, use discretion with a TRUNKFA form that has more than twenty-eight Terminal features (IDP feature included) at the time of retrofit. If the Terminal feature count is greater than thirty after retrofit, the SC1 (one-digit Speed Call) feature, if it has been assigned, will be canceled. If SC1 has not been assigned, then SC2 (two-digit Speed Call) will be canceled. If both features have been assigned to this line, both may be canceled.

1.2 Relation to the TKGRPFA Form

BRCS features assigned via the TRUNKFA form override all BRCS features assigned via the TKGRPFA form (5206 Record). That is, if BRCS features are assigned to the Trunk Group via the TKGRPFA form, but a TRUNKFA form is submitted for some particular member of the Trunk Group (say member 1), all members except member 1 will have the BRCS features listed on the TKGRPFA form, but member 1 will be assigned only the BRCS features listed on the TRUNKFA form. If no TKGRPFA form is submitted for the Trunk Group, only those members for which a TRUNKFA form is submitted will be assigned BRCS features.

1.3 Feature Assignment

All feature names explicitly defined on the TRUNKFA form or indirectly through cluster names, on the CLUSTER form, must be unique. No duplications are allowed for a given TGN/Member Number combination. Each cluster name must be defined on the CLUSTER form, where it is expanded into two through sixteen unique feature names. Each unique feature value (not cluster name) must correspond to a BRCS feature name that is defined on one of the BRCS feature definition forms described in Division 4. The total number of unique feature names on this form and associated CLUSTER forms must not exceed 48.

Only one IDFD (Individualize Dialing) feature can be assigned to the TRUNKFA. It is also normally expected that all trunk members of a given Trunk Group will share the exact same set of BRCS feature names.

Wild Card Feature Names of the format "/AA*" (AA equals two upper case alphabetic letters) are not allowed to be assigned to a TGN MEMB on the TRUNKFA form.

1.4 Recent Change View

The corresponding Recent Change View for this form is 5.11.

2. FORM ENTRIES - 5205 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TGN

Description: Enter the Trunk Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The TGN value must also be defined on the TRUNK form with BRCS equal to "Y" and assigned to either a DEN or TEN.

2.3 * MEMB

Description: Enter the Trunk Member Number.

Valid Entries: 0 - 1951

Data Rules:

The Trunk Member Number must be defined on the TRUNK form with BRCS equal to "Y" and assigned to either a DEN or TEN.

FEATURE LIST

This (fields Section 2.4 - Section 2.7) is a list of 48 possible feature/cluster names along with the associated initial activation state and a master override status.

2.4 FEATURE

Description: Enter the Feature or Cluster Name.

Valid Entries: 1 - 8 alphanumeric characters

For 5E15 and later, when FEATURE is entered on this form, it must not be defined on the MWFD form (5602 Record) where the appropriate fields on the MWFD form are set as follows:

FEATURE OPTIONS fields: ACT/INACT OPTION is set to "ACT1CA", MULTIWAY CONTROL is set to "NWAY", and AMAC is set to "USAGE",

ENTRY POINT fields: FLASH is set to "Y", IN MIDDLE is set to "Y", and OFF HOOK is set to "Y", and

DEFAULT PARAMETER field: N-WAY MAXIMUM is set to "6".

The feature options on the MWFD form define a USSWC (Usage Sensitive Six-Way Calling) feature which

cannot be assigned on this form or any of the associated CLUSTER forms (5600 Record). USSWC must be assigned on the OFCOPT form (5509 Record). For more information on the USSWC feature, see Division 2, Section 4A553.

2.5 A

Description: Activity Status. Is the BRCS feature initially active or inactive? This value is under the switch owner's control and is feature dependent.

For initial 5ESS Switch offices built by 5ODA, this field is the initial activity status of the given feature assigned to a terminal. For retrofit offices run by 5ODA, this field represents the current or present active/inactive state of the feature.

Valid Entries: Y, N

Data Rules:

If the FEATURE name used in the FEATURE LIST is a real feature name (not a cluster name), then the value of the Activity Status for this FEATURE name is based on the following condition:

- If the FEATURE name is defined on an ARSFD form, then the A must be "Y";
- If the FEATURE name is defined on a TGSFRD form with the ACT TYPE equal to "AUTO", then A must be "Y";
- If the FEATURE name is defined on an IDFD form with CUST ACT/DEACT IDP equal to "N", then A must be "Y";
- If the FEATURE name is defined on an MWFD form with the ACT/INACT OPTION equal to "ALWACT" or "INACT1CA", then A must be "Y";
- If the FEATURE name is defined on an MWFD form with the ACT/INACT OPTION equal to "ACT1CA", then A must be "N";
- If the FEATURE name is defined on a TGSFRD form with the ACT TYPE equal to "CODE" and the DACT TYPE equal to "AUTO", then A must be "N".

2.6 M

Description: Master Override Status. Is the feature turned on?

This is a software switch under the switch owner's control which provides the ability to temporarily unassign a BRCS feature from a terminal without physically deleting any of the internal data structures associated with the feature. When M is "Y", the initial (or current) Activity Status, A, determines whether the feature gets control. If the Master Status is off, "N", the terminal will be treated as if the feature was never assigned.

M should equal "Y" for all new 5ODA offices. If M equals "N" for a new 5ODA office, then TRUNKFA forms that are assigned FEATURE and/or CLUSTER Names with the associated Master Switch equal to "N" turns the customers BRCS feature off. This is an allowed condition for initial ODA runs, but it should be verified that the feature should be disabled.

M can equal "Y" or "N" for 5ODA retrofit purposes.

NOTE: For cluster entries on TRUNKFA form, if the feature name used in one of the 48 feature list

rows is really a cluster name which has been defined on the CLUSTER input form, then the fields A (Activity Status) and M (Master Override) are "don't care" fields. However, a "Y" should be entered in both fields to pass level 1 and 2 error checks. The actual status for each feature name assigned to the cluster name is defined on the CLUSTER form and Master Override Status will be initialized to "Y".

Valid Entries: Y, N

2.7 AC

Description: Authorization Code Feature. Is the Authorization Code feature required?

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

If there is at least one feature on this form or the corresponding CLUSTER forms with AC of "Y", then there must be one (only one) Authorization Code Feature on this form or the CLUSTER, defined on the ATHFD form (5619-1 Record).

If AC is "Y" and the corresponding feature is not an ATH Feature defined on ATHFD or a CLUSTER name then the feature must be entered on the ATHFCOS form (5619-4 Record) for the ATH Group corresponding to the ATH Feature entered on this or the CLUSTER form.

If the corresponding feature is a CLUSTER name, then each feature with AC of "Y" on the CLUSTER form (5600 Record) must exist on the ATHFCOS form for the CSV ATH Group, and for 5E6 and later the CSD ATH Group, corresponding to the ATH feature entered on this or the CLUSTER form.

AC must be "N" when a Display feature is assigned in the FEATURE field. If FEATURE is a cluster, then for any display feature that appears in the cluster, the corresponding AC field must be "N" on the CLUSTER form.

```

trunkfa                               5ESS Switch          _
(5205)                                OFFICE DATA ADMINISTRATION
                                     TRUNK GROUP MEMBER FEATURE ASSIGNMENT

```

- * 1. TGN 0001
- * 2. MEMB 0003
- 3. FEATURE LIST

row	FEATURE	A	M	AC	row	FEATURE	A	M	AC	row	FEATURE	A	M	AC	row	FEATURE	A	M	AC
01	/IDCTX1	Y	Y	Y	13					25					37				
02	/PFA	Y	Y	Y	14					26					38				
03					15					27					39				
04					16					28					40				
05					17					29					41				
06					18					30					42				
07					19					31					43				
08					20					32					44				
09					21					33					45				
10					22					34					46				
11					23					35					47				
12					24					36					48				

Figure 1 SAMPLE TRUNKFA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2E: 5206 RECORD FEATURE ASSIGNMENT TRUNK GROUP RECORD

1. GENERAL

The 5206 Record is available with 5E2 and later Software Releases, and is used to assign 1 to 48 BRCS features to a particular Trunk Group. The Trunk Group value must be defined on a TKGRP form (Record 5202) with the BRCS field set to "Y".

1.1 Speed Call Features

For 5E6 and later Software Releases, Speed Call (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a trunk can be assigned an IDP feature with a Speed Call feature which counts as one feature for that trunk. However, after a retrofit from the 5E5 Software Release to the 5E6 Software Release, this trunk may have as many as three features: an IDP feature and up to two SC (Speed Call) features depending on whether or not one-digit or two-digit Speed Call has been assigned.

This may raise the count of Terminal features for that trunk above the maximum of thirty features. A trunk only may be assigned up to thirty Terminal features, therefore, use discretion with a TKGRPFA form that has more than twenty-eight Terminal features (IDP feature included) at the time of retrofit. If the Terminal feature count is greater than thirty after retrofit, the SC1 (one-digit Speed Call) feature, if it has been assigned, will be canceled. If SC1 has not been assigned, then SC2 (two-digit Speed Call) will be canceled. If both features have been assigned to this line, both may be canceled.

1.2 Feature Assignment

All feature names explicitly defined on the TKGRPFA form or indirectly through cluster names, on the CLUSTER form, must be unique. No duplications are allowed for a given Trunk Group. Each cluster name must be defined on the CLUSTER form, where it is expanded into two through sixteen unique feature names. Each unique feature value (not cluster name) must correspond to a BRCS feature name that is defined on one of the BRCS feature definition forms described in Division 4. The total number of unique feature names on this form and associated CLUSTER forms must not exceed 48.

Features assigned via the TKGRPFA form will be automatically assigned to each trunk in the group, except when an individual trunk has features assigned via the TRUNKFA form. In that case, only those features assigned via the TRUNKFA form will apply to the individual trunk, but those assigned via the TKGRPFA form will apply to all other members of the group.

- **NOTE:** Only one IDP Individualized Dialing Plan feature, defined on the IDFD form, can be assigned to the TKGRPFA.

1.3 Wildcard Features

Wild Card Feature Names of the format "/AA*" (AA equals two upper case alphabetic letters) are not allowed to be assigned to a TKGRPFA Form.

1.4 Recent Change View

The corresponding Recent Change View for this form is 5.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TRUNK GROUP

Description: Enter the Trunk Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The Trunk Group value must also be defined on the TKGRP form with BRCS equal to "Y".

FEATURE LIST

This (fields Section 2.3 - Section 2.5) is a list of 48 possible feature/cluster names along with the associated initial activation state.

2.3 FEATURE

Description: Enter the Feature or Cluster Name.

Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

For 5E9(1) and later, a trunk group member defined on a TKGRP form with its WB RATE field entered can only have, at most, one TGSR and/or one IDP feature.

For 5E15 and later, when FEATURE is entered on this form, it must not be defined on the MWFD form (5602 Record) where the appropriate fields on the MWFD form are set as follows:

FEATURE OPTIONS fields: ACT/INACT OPTION is set to "ACT1CA", MULTIWAY CONTROL is set to "NWAY", and AMAC is set to "USAGE",

ENTRY POINT fields: FLASH is set to "Y", IN MIDDLE is set to "Y", and OFF HOOK is set to "Y", and

DEFAULT PARAMETER field: N-WAY MAXIMUM is set to "6".

The feature options on the MWFD form define a USSWC (Usage Sensitive Six-Way Calling) feature which cannot be assigned on this form or any associated CLUSTER form (5600 Record). USSWC must be assigned on the OFCOPT form (5509 Record). For more information on the USSWC feature, see Division 2, Section 4A553.

2.4 A

Description: Is the BRCS feature initially active or inactive? This value is controlled by the switch owner and is feature dependent.

For initial 5ESS offices built by 5ODA, this field is the initial activity status of the given feature assigned to a terminal. For retrofit offices run by 5ODA, this field represents the current or present active/inactive state of the feature.

For cluster entries on TKGRPFA form: if the feature name used in one of the 48 feature list rows is really a cluster name which has been defined on the CLUSTER form, then the field A (Activity Status) is a "don't care" field. However, a "Y" should be entered to pass level 1 and 2 error messages. The actual status for each feature name assigned to the cluster name is defined on the CLUSTER form.

Valid Entries: Y, N

Data Rules:

If the FEATURE NAME used in the FEATURE LIST is a real feature name (not a cluster name), then the value of the Activity Status for this FEATURE NAME is based on the following conditions:

- if the FEATURE NAME is defined on an ARSFD form, the Activity Status must equal "Y";
- if the FEATURE NAME is defined on a TGSFRD form with the ACT TYPE equal to "AUTO", the Activity Status must equal "Y";
- if the FEATURE NAME is defined on an IDFD form with CUST ACT/DEACT IDP equal to "N", the Activity Status must equal "Y";
- if the FEATURE NAME is defined on an MWFD form with the ACT/INACT OPTION equal to "ALWACT" or "INACT1CA", the Activity Status must equal "Y";
- if the FEATURE NAME is defined on an MWFD form with the ACT/INACT OPTION equal to "ACT1CA", the Activity Status must equal "N";
- if the FEATURE NAME is defined on a TGSFRD form with the ACT TYPE equal to "CODE" and the DACT TYPE equal to "AUTO", the Activity Status must equal "N";
- if the FEATURE NAME is defined on an ATHFD form (5619-1 Record) with ACT TYPE equal to "AUTO", Activity Status must equal "Y".

2.5 AC

Description: Is the Authorization Code Feature required?

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

If there is at least one feature on this form or the corresponding CLUSTER form with AC of "Y", then there must be exactly one Authorization Code feature on this or the CLUSTER form, defined on the ATHFD form (5619-1 Record).

If AC is "Y", and the corresponding feature is neither an ATH feature defined on an ATHFD form nor a cluster name, then the feature must be entered on the ATHFCOS form (5619-4 Record) for the CSV ATH Group associated with this trunk group. The CSV ATH Group is specified on the ATHLPA, BFG, or ATHFD form. For 5E6 and later, the feature must also be entered on the ATHFCOS form for the CSD ATH Group.

If the corresponding feature is a Cluster Name, then each feature with AC of "Y" on the CLUSTER form (5600 Record) must exist on the ATHFCOS form for the CSV ATH Group, and for 5E6 and later the CSD ATH Group, corresponding to the ATH feature entered on this or the CLUSTER form (5600 Record).

AC must be "N" when a Display feature is assigned in the FEATURE field. If FEATURE is a cluster, then for any display feature that appears in the cluster, the corresponding AC field must be "N" on the CLUSTER form.

tkgrpfa	5ESS Switch				—			
(5206)	OFFICE DATA ADMINISTRATION							
	TRUNK GROUP FEATURE ASSIGNMENT							

* 1. TRUNK GROUP 0001

2. FEATURE LIST

row	FEATURE	A	AC	row	FEATURE	A	AC	row	FEATURE	A	AC	row	FEATURE	A	AC
01	/IDSCBAC	Y	Y	13	_____	—	—	25	_____	—	—	37	_____	—	—
02	/MW3WC	Y	Y	14	_____	—	—	26	_____	—	—	38	_____	—	—
03	/PFA_____	Y	Y	15	_____	—	—	27	_____	—	—	39	_____	—	—
04	_____	—	—	16	_____	—	—	28	_____	—	—	40	_____	—	—
05	_____	—	—	17	_____	—	—	29	_____	—	—	41	_____	—	—
06	_____	—	—	18	_____	—	—	30	_____	—	—	42	_____	—	—
07	_____	—	—	19	_____	—	—	31	_____	—	—	43	_____	—	—
08	_____	—	—	20	_____	—	—	32	_____	—	—	44	_____	—	—
09	_____	—	—	21	_____	—	—	33	_____	—	—	45	_____	—	—
10	_____	—	—	22	_____	—	—	34	_____	—	—	46	_____	—	—
11	_____	—	—	23	_____	—	—	35	_____	—	—	47	_____	—	—
12	_____	—	—	24	_____	—	—	36	_____	—	—	48	_____	—	—

Figure 1 SAMPLE TKGRPFA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2F: 5207 RECORD NAIL-UP AND HAIRPIN SPECIFICATION - NAILUP

1. GENERAL

The NAILUP form (5207 Record) is available with the 5E3 Software Release. The NAILUP form contains data to directly link ("nailup") two ports. The Controlling Port is the port requesting the nailup connection; the Non-Controlling port is the port receiving the nailup connection. The nailup connection assigns a semi-permanent path through the SM (or the SM and the CM) from a port on one piece of peripheral equipment to a port on another piece of peripheral equipment.

The nailup capability provides special services lines with the use of dedicated paths through the switching machine from one transmission facility to another. Such possibilities arise when a special service is either a non-local switched type or a non-switched type which must traverse an office enroute to its terminating switch or customer equipment. A service so implemented is referred to as nailed-up through the switch because the transmission path is guaranteed and signalling information is not subjected to normal call-processing functions.

The nailup feature does not support logical port types associated with coin phones, transmission test functions, DC jacks or automatic testing equipment.

Effective with the 5E4(2) and later Software Releases, integrated SLC circuits are supported.

With the 5E8 Software Release, nailup supports two new equipment types ("GEN" and "MEN") for IDCU (Integrated Digital Carrier Unit) facilities and provides what is called a "hairpin" connection where both ports are connected to the same IDCU. Hairpin has the same function as nailup except that it does not use SM time slot resources. (Note that for 5E10 and later, "MEN" (OE TYPE of "M") is discontinued and the nailup of DID (Direct Inward Dialing) trunks is not supported.

To accommodate the inclusion of IDCU hairpin connections and nailup connections, this form was reorganized, its title changed to reference hairpin, and most field names were changed to reflect the new organization. The name of the NAILUP form was changed to NAILUP AND HAIRPIN SPECIFICATION and the form was reorganized to accommodate a new 5ESS Switch peripheral unit called the IDCU (Integrated Digital Carrier Unit).

The IDCU's major function is to connect remote terminals to the 5ESS Switch. It supports TR008 (analog) and TR303 (analog and ISDN) remote terminals. To support IDCU, "hairpin" connections were added. Hairpin connections are a subset of nailup in which both ends of the connections are on the same IDCU, and in which case, no SM TSI resources are used in making the connection. The traditional nailup connection using TSI resources is also supported for IDCU equipment.

The SM and IDCU must be defined on an EQIDCU form (5846 Record), and the remote terminal defined on the RTERM form (5174 Record). For information on defining IDCU connections (i.e., IFACs (IDCU Facilities)), see the EQIFAC form (5847 Record).

Effective as a 5E13 Software Update, the TSI Nail-up of Consecutive DS0s for DNU-S feature (99-5E-7395) is available as a secured feature (SFID 349). See Division 2, Section 4A349. For this feature, OE TYPE of "A", "N", and "D" are used.

1.1 Recent Change View

The corresponding Recent Change View for this form is 7.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

CONTROLLING PORT DATA

2.2 *C OE (Type)

Description: The OE field is a two segment field. The first segment is a one-character entry for the type of equipment. The second segment is a composite (up to 11 digits) of various equipment. Enter the type of equipment.

Required Field.

Valid C OE TYPE Entries	
Entry	Description
A	Software Release: 5E12 and later. TR-303/DNU-S equipment number (INEN). See Division 2, Section 9J. Software Release: 5E13 and later. TSI Nail-Up of Consecutive DS0s for DNU-S. See Division 2, Section 4A349.
D	Software Release: 5E3 and later. DEN (Digital trunk equipment number), digital 4-wire line.
G	Software Release: 5E8 and later. The OE is associated with an IDCU Equipment Number and Number field must contain a 10-digit equipment number (GEN) for a remote terminal or a PUB43801. For 5E10 and later an 11-digit equipment number is required.
N	Software Release: 5E12 and earlier. NEN (Network Equipment Number) which is the 10-digit equipment number for digital trunks on the DNU-S (Digital Networking Unit - SONET). Software Release: 5E13 and later. The VT (Virtual Tributary) field defined on the EQVT form (5858 Record) was split which resulted in an 11-digit NEN. For more information on DNU-S, see Division 2, Section 9C and Division 2, Section 9Q.
O	Software Release: 5E16(2) and later. OIUEN (Optical Interface Unit Equipment Number)
S	Software Release: 5E4(2) and later. SLEN (Subscriber Loop Carrier equipment number). Note that if a SLEN is defined on a SLCCU form with CU TYPE set to "DID" or "DIDDPT", DID (Direct Inward Dialing) trunks is not supported.
T	Software Release: 5E3 and later. TEN (Analog trunk equipment number), analog 4-wire line.

Data Rules:

TYPE D, G, S, T

When the CONTROLLING OE-type and the NON-CONTROLLING OE-type are both "D", "G", "S", or "T", the NON-CONTROLLING OE-number must not be the same as CONTROLLING OE-number.

TYPE G or S

If the CONTROLLING OE-type or the NON-CONTROLLING OE-type is "G" or "S" a corresponding OE type/number must be defined on the MLHLN or LINE input form.

If C OE or NC OE is defined on a TR008 (Mode-I) RT or is a PUB43801, the DS1/DS0 assignments are fixed. Any incorrectly assigned values will be corrected by the system. Additionally, for PUB43801, the C PATH DS1, C PATH1 DS0 and C PATH2 DS0 are directly obtained from the C OE. Thus, C PATH DS1 must equal C OE DS1 minus 51, C PATH1 DS0 must equal C OE LINE minus 1, and C PATH 2 DS0 must equal C OE LINE. If these fields are not entered, they will be selected by the system.

TYPE D, N, T, S

5E13 and later:

If C/NC OE is "D", "N", "T" or "S", then:

- PATH NUM must be 1
- the following must not be entered:

C/NC ZCS

C/NC PATH DS1

C/NC PATH1 DS0

C/NC PATH2 DS0

For 5E10 and later, the nailup of DID trunks is not supported. Thus, the controlling port cannot have a corresponding ILEN defined on a RTERM form with CU XX/YY set to "DID" or "DIDDPT". The corresponding ILEN on an RTERM form is found by matching the first three digits of C OE, the fourth and fifth digits of C OE, and the sixth and seventh digits of C OE from the NAILUP form to SM, UNIT NUMBER, and RT EX on the RTERM form, respectively. The matching channel unit (CU XX/YY) is found by matching the tenth and eleventh digits of C OE when OE TYPE is set to "G" to XX in CU XX/YY where the value of YY is XX + 1.

TYPE A

When C OE is "A", C PATH DS1 must be entered as:

- dg [0-1]
- sts [0-5]
- ds1 [01-28]

When "A" is entered, ZCS2 must not be entered.

For 5E13 and later, when C OE is "A", C PATH DS1 must be entered as:

dg [0-1]
ste [1-6]
sts [1]
vtg [1-7]

vtm [1-4]

When C OE and NC OE are "A", both OEs must be on the same SM.

For 5E13 and later, when C OE or NC OE is "A", and the associated C OE or NC OE is equal to "N" or "D", SFID ACT 349 must be set to "Y" on the SFSYS form. SFID 349 controls the TSI Nail-up of Consecutive DSOs for DNU-S feature (see Division 2, Section 4A349).

TYPE D

For 5E13 and later, when C OE or NC OE is "D", PATH NUM is 2, and HAIRPIN is "N",

there must be a corresponding NEN + 1 assigned on a TRUNK form.

the C/NC OE[1,3] value must correspond to an SM which is equipped with an SM-2000 class processor (see UNIT TYPE on the EQIM form (5700 Record)).

TYPE G

For 5E12 and later, when C OE is "G", C PATH DS1 must be 0-39.

The value of digits seven through ten of C/NC OE on NAILUP forms which have a NC OE TYPE of "G" and matches an RTERM form with a TR303 interface, must be less than or equal to the value of RT LINE SIZE on the matching RTERM form.

When the CONTROLLING PORT(s) on NAILUP form(s), have an C OE TYPE of "G", and have a C OE entered which matches to either the DSL, DSLUSR, MISLINK, or TRUNK form, the NAILUP form with C OE TYPE set to "G" may be used to nailup only LINE and MLHLN OE NUMBERS with the same OE TYPE.

CONTROLLING PORT(s) on NAILUP form(s), with a C OE TYPE of "G", must match an OE TYPE/NUMBER defined on a LINE or MLHLN form:

- The C OE must have a matching Channel Unit position with a known Channel Unit Type defined on the RTERM form.
- The NC OE must have a matching Channel Unit position with a known Channel Unit Type defined on the RTERM form.

A matching RTERM form can be found by matching the first three digits of NC OE, the fourth and fifth digits of NC OE, and the sixth and seventh digits of NC OE from the NAILUP form to SM, UNIT NUMBER, and RT EX on the RTERM form, respectively. If RT INTERFACE is "TR008" then the matching Channel Unit position is found by matching the tenth and eleventh digits of NC OE, when NC OE TYPE is "G", to XX in CU XX/YY where the value of YY is XX + 1.

CONTROLLING PORT(s) and NON-CONTROLLING PORTS on NAILUP form(s), with a C OE TYPE of "G", must match an OE TYPE/NUMBER defined on LINE or MLHLN forms. If the C OE has a matching RTERM form with an RT INTERFACE of "TR303", then the value of digits 8 - 11 of C OE on NAILUP forms must be less than or equal to the value of RT LINE SIZE on the matching RTERM form. A matching RTERM form can be found by matching the first three digits of C OE, the fourth and fifth digits of C OE, and the sixth and seventh digits of C OE from the NAILUP form to SM, UNIT NUMBER, and RT EX on the RTERM form,

respectively.

When NON-CONTROLLING PORT(s) on NAILUP form(s), with an NC OE TYPE of "G", have an NC OE entered which matches either the DSL, DSLUSR, MISLINK, or TRUNK form, the NC OEs on the NAILUP form with NC OE TYPE set to "G" may be used to nailup only LINE and MLHLN OE NUMBERS with the same OE TYPE.

TYPE G

If either the CONTROLLING OE or NON-CONTROLLING OE type and number defined on the NAILUP form have a CONTROLLING or NON-CONTROLLING OE type equal to "G" or "A", the DDS field is set to "Y", and they are associated with an RTERM form where RT INTERFACE is "TR303", then the corresponding MLHLN form must have the TR303 NAILUP field set to "Y". The RTERM form corresponds to this form if the SM field on the RTERM form matches the first three digits of the OE field on this form. The MLHLN form corresponds if the OE NUMBER on that form matches the OE field on this form.

Controlling ports with C or NC OE TYPES of "G" can only be assigned to "G" or "M" on the LINE and MLHLN forms, but cannot be assigned to "G" OEs on the DSL, DSLUSR, or TRUNK forms.

Controlling ports with C or NC OE TYPES of "G" or "M" must have a C or NC OE entered which matches an OE TYPE/NUMBER defined on a LINE or MLHLN form, a TRKOE originating equipment type/originating equipment number defined on the TRUNK form, or a DSL originating equipment type/originating equipment number defined on the DSL or DSLUSR form. The C or NC OE must have a matching Channel Unit position with a known Channel Unit Type defined on the RTERM form.

TYPE N

For 5E9(2) and later, if the CONTROLLING OE or NON-CONTROLLING OE (types/numbers) defined on this form has a CONTROLLING OE or NON-CONTROLLING OE type equal to "N", then:

- a corresponding NEN must be found on the TRUNK form (5204-1 Record).
- and if a corresponding NEN is defined on a TRUNK form then the INPUTSING or OUTPUTSING fields on the associated TKGRP form cannot be "CCIS6" or "ISUP7" indicating CCS trunks.

For 5E10 and later, when TGN/MEMB(s) have NEN entered on the TRUNK form and a TRKCLS of "EDSL" or "EDSLHM" on the corresponding TKGRP form, the NEN on the TRUNK form can not be entered as C OE or NC OE on a NAILUP form

As a 5E13 Software Update, when C OE or the NC OE is "N", PATH NUM is 2, and HAIRPIN is "N", there must be a corresponding NEN + 1 assigned on a TRUNK form.

TYPE S

If the C OE or the NC OE-type is "S", the SIGNALLING MODE must not be "ABCD" and there must be a corresponding SM/DCLU/REMOTE TERMINAL defined on the SLCRT form (5106 Record).

If a corresponding C or NC SLEN is defined on a SLCCU form with CU TYPE set to "DID" or "DIDDPT" (which indicates a Direct Inward Dialing trunk), nailup of DID trunks is not supported.

For 5E15 and later, if the C or NC OE-type is "S", and a C or NC OE Number is defined indicating a SLCRT (1 - 6), a corresponding SM/DCLU/Remote Terminal must be defined on a SLCRT form.

TYPE T

If the C OE-type or the NC OE-type is "T", the SIGNALLING MODE must be "A" or "NOSIG" and C and NC

INITIAL SIGNAL must be 00 and FINAL SIGNAL must be 11.

If C OE is "T", C INIT SIG, must be 00, C FINAL SIG must be 11, and C TRWRD must be "UAC".

2.3 C OE (Number)

Description: Enter the line Equipment Number.

Required Field.

If OE is "A", enter the INEN Equipment Number of the port requesting the nailup connection:

TR-303 on DNU-S, Type A (5E13 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Line	LINE	XXXX	0001-2048

If OE type is "D", enter the Digital Equipment Number of the port requesting the nail-up connection. This number should also appear on a TRUNK form (5204 Record).

OE NUMBER, TYPE "D"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Digital Line Trunk Unit	DLTU	X	0 - 5
		XX	(5E14 and earlier) 0 - 11
Digital Facility Interface	DFI	XX	(5E15 and later) 01 - 10
Digital Channel	DCHAN	XX	01 - 48

If OE type is "G", and the OE resides on a remote terminal, enter the IDCU Equipment Number of the port requesting the nail-up connection. This number should also appear on the LINE form (5109-1 Record) or MLHLN form (5111 Record).

This IDCU Equipment Number residing on a remote terminal consists of:

OE NUMBER, TYPE "G" - Remote Terminal (5E9(2) and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

OE NUMBER, TYPE "G" - Remote Terminal (5E10 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	XX	00 - 42
Remote Terminal	RT	XX	01 - 31
Line	LINE	XXXX	0001 - 2048

If OE type is "G", and the OE is a PUB43801, enter the IDCU Equipment Number of the port requesting the nail-up connection. This number should also appear on the LINE form (5109-1 Record).

This IDCU Equipment Number residing on a PUB43801 consists of:

OE NUMBER, TYPE "G" - PUB43801 (5E10 and later)		
Equipment	Format	Valid Entries

Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	XX	00 - 42
DS1	DS1	XX	51 - 90
Line	LINE	XXXX	0001 - 0024

If OE type is "N", enter the Network Equipment Number of the port requesting the nail-up connection.

OE NUMBER, TYPE "N" (5E12 and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Digital Networking Unit - SONET	DNU-S	X	0-7
Data Group	DG	X	0-1
Synchronous Transport Signal	STS	X	0-5
Virtual Tributary	VT	XX	01-28
Digital Signal Level 0	DS0	XX	01-24

OE NUMBER, TYPE "N" (5E13 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Digital Networking Unit - SONET	DNU-S	X	0-7
Data Group	DG	X	0-1
SONET Termination Equipment	STE	X	1-6
Synchronous Transport Signal	STS	X	1
Virtual Tributary Group	VTG	X	1-7
Virtual Tributary Member	VTM	X	1-4
Digital Signal Level 0	DS0	XX	01-24

When OE TYPE is "O", enter the OIUEN of the port requesting the nail-up connection.

OE NUMBER, TYPE "O" - (5E16 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
Protection Group	PG	X	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container Member	LVC MEM	X	1 - 4
Channel	CH	XX	01 - 24

If OE type is "S", enter the SLC Equipment Number of the port requesting the nail-up connection. This number should also appear on the LINE form (5109-1 Record) or MLHLN form (5111 Record).

This SLC Equipment Number consists of:

OE NUMBER, TYPE "S"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Digital Carrier Line Unit	DCLU	X	0 - 7
			(5E14 and earlier)
		XX	0 - 15
			(5E15 and later)
Subscriber Loop Carrier Remote Terminal	RT	XX	01 - 06
Line	LINE	XX	01 - 96

When C OE and NC OE is "S", then Path NUM must be 1.

When C OE and NC OE is "S", C/NC ZCS, C/NC PATH DS1, C/NC PATH1 DS0, and C/NC PATH2 DS0 must not be entered.

If a "T" is entered in the OE type field, enter the Trunk Equipment Number of the port requesting the nail-up connection. This number should also appear on TRUNK form (5204 Record).

OE NUMBER, TYPE "T"			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Trunk Unit	TU	X	0 - 7
Service Group	SVG	X	0 - 1
Pack	PACK	X	0 - 7
Circuit	CKT	X	0 - 3

When C OE and NC OE is "T", then Path NUM must be 1.

When C OE and NC OE is "T", C/NC ZCS, C/NC PATH DS1, C/NC PATH1 DS0, and C/NC PATH2 DS0 must not be entered.

2.4 C LOSS

Description: This is the Controlling Port's outgoing loss. The 5ESS Switch owner engineer, in designing the end-to-end circuit, determines the loss value for the switch's piece of the entire circuit.

Required Field: .

Default: 0.0 dB

Value Entries: 0 - 7.0 in 0.5 increments,
where actual loss in dB = loss x 0.5 dB.

2.5 C INIT SIG

Description: This is the Controlling Port's initial signal. It specifies the A/B signalling bit patterns to be sent for the first 2.5 seconds of the carrier failure condition of a Nailed-up channel.

This value will vary depending on the type of carrier and the type of channel unit at the end of the connection. The 5ESS Switch Owner engineer determines the correct bit pattern which will be applied during carrier failure.

Software Release: 5E4(2) and later

Required Field.

Default: 00

Valid Entries: 00, 01, 10, 11,
0000, 0010, 0101, 1010, or 1111

2.6 C FINAL SIG

Description: This is Controlling Port's final signal. It specifies the A/B signalling bit applied after 2.5 seconds of carrier failure of a nailup channel.

This value will vary depending on the type of carrier and the type of channel unit at the end of the connection. The 5ESS Switch Owner engineer determines the correct bit pattern which will be applied during carrier failure.

Software Release: 5E4(2) and later

Required Field.

Default: 11

Valid Entries: 00, 01, 10, 11,
0000, 0010, 0101, 1010, or 1111

2.7 C TRWRD

Description: Indicate the trouble word to be sent during carrier failure. The 5ESS Switch Owner engineer determines which trouble word will be applied.

Default: UAC

Valid Entries:

Valid C TRWRD Entries	
Entry	Description
M or MUX	DDS MUX out-of-service code.
T or TRB	Trouble word for series 2000/3000.
UA or UAC	Unassigned channel code.
UM or UMC	DDS unassigned multiplex code.

2.8 C ZCS

Description: Is the Controlling port's zero-code-suppression enabled? ZCS ensures that 16 contiguous 0 bits are not received in the transmission bit stream; here it only pertains to IDCU ports.

This field is only used for OE type of "G". Only OE type of "G" can be set to either "Y" or "N". All other equipment types must always be "N".

If the C OE on this NAILUP form is an IDCU port that is not a PUB, then the use of the C ZCS field on this NAILUP form is dependent on the suppression method specified on the RTERM form (5174 Record) in the SUP METHOD field. (Use the value of C OE on this form to find the correct key fields for the RTERM form).

The C ZCS field can only be used to turn off zero code suppression that was specified for the DS1s of the RT EX (Remote Terminal External Number) on the RTERM form; it cannot be used to turn on zero code suppression. (Note, this field overrides the C DS1 time slot only; it has no impact on the rest of the DS1 time slots.) Specifying a SUP METHOD of "TR8ZC" or "303ZC" on the RTERM form also specifies that zero code suppression should be used for the DS1, while a SUP METHOD of "TR8B8" or "303B8" specifies that zero code suppression should not be used for the DS1. Therefore, the only time the value specified for the C ZCS field on this NAILUP form impacts zero code suppression is if the C ZCS field is set to "N" and the SUP METHOD field on the RTERM form is "TR8ZC" or "303ZC".

The table below summarizes the interaction of the values of the C ZCS field on this NAILUP form and the SUP METHOD field on the RTERM form.

IDCU NON-PUB PORT		
SUP MTHD FIELD ON RTERM FORM	C ZCS FIELD ON NAILUP FORM	IS ZERO CODE SUPPRESSION USED FOR THE C DS1 TIME SLOT ON NAILUP?
TR8ZC, 303ZC	Y or blank	Yes
TR8ZC,	N	No

303ZC		
TR8B8, 303B8	Y, N or blank	No

If the C OE on this NAILUP form is an IDCU port that is a PUB, then the use of the C ZCS field on this form is dependent on the suppression method specified on the EQIFAC form (5847 Record) in the SUP MTHD field. (Use the value of C OE on this form to find the correct key fields for the EQIFAC form.)

The table below summarizes the interaction of the values of the C ZCS field on this NAILUP form and the SUP MTHD field on the EQIFAC form.

IDCU PUB PORT		
SUP MTHD FIELD ON EQIFAC FORM	C ZCS FIELD ON NAILUP FORM	IS ZERO CODE SUPPRESSION USED FOR THE C DS1 TIME SLOT ON NAILUP?
D4, FEB7, TR8ZC, 303ZC	Y or blank	Yes
D4, FEB7, TR8ZC, 303ZC	N	No
64K, FE8Z, TR8B8, 303B8	Y, N or blank	No

Valid Entries: Y, N

Data Rules:

ZCS can only be disabled for IDCU hardware. This field must be blank for all other hardware types.

When C OE is "A", C ZCS must not be entered.

2.9 C PATH DS1

Description: This field is only used for OE types "G" or "M". It specifies the controlling port's DS1 IFAC (IDCU Facility) for nailup or hairpin path 1. It identifies the facility used by the controlling port to connect the IDCU to the remote terminal.

The C PATH DS1, C PATH1 DS0, and C PATH2 DS0 fields can be entered or, if left blank, the system will choose the values for these fields depending upon whether PATH NUM is 1 or 2. For example, if PATH NUM is 1, either enter values in both C PATH DS1 and C PATH1 DS0, or leave both blank and the system will choose the values for these fields. (Note also that when PATH NUM is 1, the C PATH2 DS0 and NC PATH2 DS0 fields must be blank.) Similarly, if PATH NUM is 2, either enter values in C PATH DS1, C PATH1 DS0, and C PATH2 DS0, or leave all three blank and the system will choose the values for these fields.

Valid Entries: 0 - 39

The DS1 entered on the NAILUP form must correspond to an IFAC entered in the RT IFAC TERMINATION list on the appropriate RTERM form.

The DS1 entered on the NAILUP form must correspond to an FAC entered in the RT FAC TERMINATION list on the appropriate RTERM form.

The DS1 entered cannot be the PROT LINE on the same RTERM form.

2.10 C PATH1 DS0

Description: This field is only used for OE types "G" or "M". It identifies the timeslot (DS0) on the IDCU facility (DS1) that will be used by the controlling port for path 1.

Valid Entries: 0 - 23

2.11 C PATH2 DS0

Description: This field is only used for OE type "G" and is only entered when PATH NUM is 2. It specifies the controlling port's DS0 for dual-DDS (Digital Data Service) hairpin path 2. It identifies the timeslot (DS0) on the IDCU facility (DS1) used by the controlling port for path 2.

Valid Entries:

5E8 and earlier: 0 - 23

5E9(1) and later: 0 - 18

NON-CONTROLLING PORT DATA

2.12 #NC OE (Type/Number)

■ **NOTE:** See C OE for CONTROLLING PORT DATA - identical usage.

2.13 NC LOSS

■ **NOTE:** See C LOSS for CONTROLLING PORT DATA - identical usage.

2.14 NC INIT SIG

■ **NOTE:** See C INIT SIG for CONTROLLING PORT DATA - identical usage.

2.15 NC FINAL SIG

■ **NOTE:** See C FINAL SIG for CONTROLLING PORT DATA - identical usage.

2.16 NC TRWRD

■ **NOTE:** See C TRWRD for CONTROLLING PORT DATA - identical usage.

2.17 NC ZCS

■ **NOTE:** See C ZCS for CONTROLLING PORT DATA - identical usage.

2.18 NC PATH DS1

■ **NOTE:** See C PATH DS1 for CONTROLLING PORT DATA - identical usage.

2.19 NC PATH1 DS0

■ **NOTE:** See C PATH1 DS0 for CONTROLLING PORT DATA - identical usage.

2.20 NC PATH2 DS0

■ **NOTE:** See C PATH2 DS0 for CONTROLLING PORT DATA - identical usage.

FOR BOTH PORTS

2.21 #SIGMODE

Description: Signalling Mode indicates if any signalling is to be passed and the amount. For data circuits, no signalling is passed. When signalling must pass through, three types of signals are possible: 2-state (A),

4-state (AB), and 16-state (ABCD).

- **NOTE:** If both the Controlling and Non-Controlling Port has an OE of "N", then SIGMODE is "don't care", i.e. any signaling mode may be entered.

Required Field.

Valid SIGMODE Entries	
Entry	Description
A	2-state.
AB	4-state.
ABCD	16-state.
NOSIG	No signaling mode.

Data Rules:

If either the Controlling or Non-Controlling Port has an OE type of "T", the SIGMODE must be "A" or "NOSIG".

A SIGMODE value of "ABCD", used for an OE type of "D", requires that both the Controlling and Non-Controlling Ports have a corresponding DFI MODE of "FE" or "FE8Z" on the EQDUP form (5730 Record).

If SIGMODE is "NOSIG", "A" or "AB", the corresponding DFI mode on the EQDUP form must be "D4", "64K", "FE", "FE8Z", or "FEB7" which is required for DEN's only.

The 5ESS Switch is designed to accommodate ABCD signalling or 64KB clear transmission through inter RSM, RSM to HOST and inter Switching Module connections.

For SLEN's defined on an SLCRT form, the SIGMODE must not be "ABCD". Therefore, if C OE or NC OE equipment type is "S", SIGMODE must be "A", "AB", or "NOSIG".

If the RT INTERFACE on the RTERM form is "TR008" and C OE or NC OE on the NAILUP form is "M" or "G" (indicating IDCU equipment), SIGMODE must be "A", "AB" or "NOSIG".

If SIGMODE is "NOSIG", C INT SIG and NC INT SIG must be 00, and C FINAL SIG and NC FINAL SIG must be 11.

If SIGMOD is "ABCD", C INIT SIG, NC INIT SIG, C FINAL, and NC FINAL SIG must be either 0000, 0010, 0101, 1010, or 1111.

If SIGMOD is "A", C INIT SIG, NC INIT SIG, C FINAL, and NC FINAL SIG must be either 00 or 11.

If SIGMOD is "AB", C INIT SIG, NC INIT SIG, C FINAL, and NC FINAL SIG must be either 00, 01, 10, or 11.

For 5E10 and later, when NAILUP forms have a C OE or NC OE of "G" indicating an IDCU OE, and the corresponding RTERM form has RT INTERFACE set to TR008, the SIGMODE on the NAILUP forms must be "A", "AB" or "NOSIG".

2.22 HAIRPIN

Description: Is this connection a hairpin?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "N" for all non-IDCU equipment types.

When HAIRPIN is "Y", C LOSS and NC LOSS must be 0.0.

When HAIRPIN is "Y", the C OE and NC OE must be on the same SM and IDCU.

When HAIRPIN is "Y", C PATH2 DS0 must be 0-18.

2.23 DDS

Description: Is Digital Data Service used?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If DDS is "N", PATH NUM must be 1.

If DDS is "Y", SIGMODE must be NOSIG.

If DDS is "Y" and HAIRPIN is "N" and OE is not "A", PATH NUM must be 1.

2.24 PATH NUM

Description: Enter the number of channels (paths) used in the hairpin or nailup.

Required Field.

Default: 1

Valid Entries: 1 or 2

Data Rules:

PATH NUM must be 1 for all nailup ports.

When PATH NUM is 1, C PATH2 DS0 and NC PATH2 DS0 must not be entered.

When PATH NUM is 2 and C OE is "A", C LOSS must be 0.0.

When PATH NUM is 2 and HAIRPIN is "N", C OE and NC OE must both have an OE type of "A" and must both be on the same SM.

For 5E13 and later, when PATH NUM is 2 and HAIRPIN is "N":

- C OE and NC OE must both have an OE type of "A", "D", or "N".
- and C OE or NC OE is either "D" or "N", then C OE and NC OE must have an equipment type of "A".
- and C OE or NC OE is "D", the DCHAN portion of the DEN must not be 24 or 48.
- and C OE or NC OE is "N", the DS0 portion of the NEN must not be 24.

The value of 2 is only valid for Dual Path DDS terminating on TR008 RTs or on PUB43801 facilities.

If PATH NUM is 2, and C OE or NC OE is either a PUB43801 or on a TR008 RT, the port subsequent to C OE or NC OE must exist and must not be used on any of the LINE or MLHLN forms.

For 5E9(1) and later, if PATH NUM is set to 2 and the CONTROLLING or NON-CONTROLLING OE-types/numbers have RT INTERFACE set to "TR008", this combination indicates a dual path digital data service. Dual path digital data services require consecutive equipment numbers. Therefore, the corresponding ILENs are defined on a RTERM form cannot have CU XX/YY set to

- "COIN"
- "FXS"
- "FXSLS"
- "DIDDPT"

because these are single-channel Channel Units, which have only one equipment number defined and are therefore invalid for dual path digital data services. The corresponding ILEN on a RTERM form is found by matching the first three digits of C OE, the fourth digit of C OE, and the fifth and sixth digits of C OE from the NAILUP form to SM, UNIT NUMBER, and RT EX on the RTERM form, respectively. The matching channel unit (CU XX/YY) is found by matching the seventh and eighth digits of C OE, when C OE TYPE is "M", or the ninth and tenth digits of C OE, when C OE TYPE is "G", to XX in CU XX/YY where the value of YY is XX + 1.

For 5E9(1) and later, when the NAILUP form PATH NUM is set to 2, the last two digits of the OE (used to assign time slots) for a TR008 (Mode-I) are restricted from using time slots 19, 22 or 23. The following list of last two digits will result in the use of one of these time slots and is therefore invalid: 11, 21, 23, 35, 45, 47, 59, 69, 71, 83, 93, or 95.

For 5E9(2) and earlier, if PATH NUM is 2, and C OE or NC OE is on a TR008 RT, the C OE or NC OE must be an odd line number (e.g., C OE {7,8} must be an odd number when C OE or NC OE is "M" or C OE or NC OE {7,10} must be an odd number when C OE or NC OE type is "G").

For 5E10 and later, when the NAILUP form has PATH NUM set to 2 (indicating dual-DDS Hairpin) and C OE is on a TR008 Remote Terminal, this requires C OE to be an odd line number, i.e. C OE[8,11] must be an odd number when C OE type is "G".

For 5E10 and later, when the NAILUP form PATH NUM is set to "2" (indicating dual-DDS Hairpin) and NC OE is on a TR008 Remote Terminal, this requires NC OE to be an odd line number. i.e. NC OE[8,11] must be an odd number when NC OE type is "G".

If PATH NUM is 2 for CONTROLLING OE entries on a NAILUP form, then the associated C PATH DS1 value cannot match the PROT LINE field on the corresponding RTERM form. The RTERM form corresponds if the first 3 digits of the C OE on this form matches the entry in the SM field on the RTERM form. In addition for the NON-CONTROLLING OE entries on a NAILUP form, if PATH NUM is 2, the associated NC PATH DS1 value cannot match the PROT LINE field on the corresponding RTERM form.

2.25 DSC NUM

Description: When the 5ESS Switch serves as a DCS (Digital Cellular Switch), the DSC NUM field is used to assign a number to a Dedicated Switch Connection between a cell site and an ECP (Executive Cellular Processor) complex. Its value must be entered when the nailup is a dedicated switch connection.

Software Release: 5E9(1) and later

Valid Entries:

5E12 and earlier: 1 - 444

5E13 and later: 1 - 9999

Data Rules:

The DSC NBR must be unique or blank.

When DSC NUM is entered, the controlling and non-controlling OEs must both be DENs and DSC trunks. For the controlling OE, the DEN on the TRUNK form must match the C OE on the NAILUP form; the TRKCLS on the corresponding TKGRP form (TGN on the TKGRP form matches the TGN on the TRUNK form) must be "DSC". Likewise, for the non-controlling OE, the DEN on the TRUNK form must match the NC OE on the NAILUP form; the TRKCLS on the corresponding TKGRP form must be "DSC".

2.26 WIDEBAND

Description: This field indicate whether or not double buffering for N*DS0 links are used.

Required field.

Software Release: 5E17(1) and later

Default: N

Valid Entries: Y, N

Data Rules:

When WIDE BAND is "Y", DSC NBR must be entered. This field supports the Multi-channel Signaling Link Nailup Connection in 5ESS DCS feature. For more information, see Division 2, Section 1DB.

5ESS Switch			—
nailup OFFICE DATA ADMINISTRATION			
(5207) NAIL-UP AND HAIRPIN SPECIFICATION			
CONTROLLING PORT		NON-CONTROLLING PORT	FOR BOTH PORTS
*1. C OE	—	#12. NC OE	—
4. C LOSS	0.0	15. NC LOSS	0.0
5. C INIT SIG	00	16. NC INIT SIG	00
6. C FINAL SIG	11	17. NC FINAL SIG	11
7. C TRWRD	UAC	18. NC TRWRD	UAC
8. C ZCS	—	19. NC ZCS	—
9. C PATH DS1	—	20. NC PATH DS1	—
10. C PATH1 DS0	—	21. NC PATH1 DS0	—
11. C PATH2 DS0	—	22. NC PATH2 DS0	—
		#23. SIGMODE	—
		24. HAIRPIN	N
		25. DDS	N
		26. PATH NUM	1
		27. DSC NBR	—

Figure 1 SAMPLE NAILUP FORM 5E10 AND EARLIER SOFTWARE RELEASES

5ESS Switch	
nailup OFFICE DATA ADMINISTRATION	
SCREEN 1 OF 2 NAIL-UP AND HAIRPIN SPECIFICATION	
(5207)	
CONTROLLING PORT	NON-CONTROLLING PORT

*1. C OE	—	#12. NC OE	—
4. C LOSS	0.0	15. NC LOSS	0.0
5. C INIT SIG	00	16. NC INIT SIG	00
6. C FINAL SIG	11	17. NC FINAL SIG	11
7. C TRWRD	UAC	18. NC TRWRD	UAC
8. C ZCS	—	19. NC ZCS	—
9. C PATH DS1	—	20. NC PATH DS1	—
10. C PATH1 DS0	—	21. NC PATH1 DS0	—
11. C PATH2 DS0	—	22. NC PATH2 DS0	—

nailup	5ESS Switch	—
SCREEN 2 OF 2	OFFICE DATA ADMINISTRATION	
(5207)	NAIL-UP AND HAIRPIN SPECIFICATION	

FOR BOTH PORTS

#23. SIGMODE	—
24. HAIRPIN	N
25. DDS	N
26. PATH NUM	1
27. DSC NBR	—
28. WIDEBAND	N

Figure 2 SAMPLE NAILUP FORM 5E18(1) AND LATER SOFTWARE RELEASES

SEC. 2G: 5271-1 RECORD

TRUNK EQUIPMENT NUMBER RECORD

1. GENERAL

The 5271-1 Record is an output-only record and is used to identify the location of analog trunk equipment.

Digital Trunks use digital equipment which is identified on the Digital Equipment Record (5271-2 Record). Analog and Digital trunks may be combined in the same Trunk Group. Logical Test Port trunks use a Logical Test Port location and are identified on the Logical Test Port Record (5271-3 Record).

1.1 Restrictions

Any SM that is fully loaded with trunks, is required to allow one time slot for idle code and one for audible ring. This means that 510 trunks are the maximum number of trunks available for assignment rather than 512, which is the total number of time slots in an SM. 8 Trunk Units per SM or 1 DLTU with 8 DFIs, plus 5 trunk units per SM, are examples of an SM fully loaded with trunks.

An Analog Trunk equipment location consists of:

TRUNK EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 48 (CM1)
			1 - 192 (CM2)
Trunk Unit	TU	X	0 - 7
Service Group	SG	X	0 - 1
Pack	PACK	X	0 - 7
Circuit	CKT	X	0 - 3

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

The Base and Control Number and Office Name appear on each page of the record.

2.2 SM

Description: This field contains the Switching Module Number. For offices equipped with CM1 (Communication Module 1), the valid values are 1 - 48. For offices equipped with CM2 (Communication Module 2), the valid values are 1 - 192.

Valid Entries: 1 - 192

2.3 TRUNK UNIT

Description: This field contains the Trunk Unit Number.

Valid Entries: 0 - 7

2.4 SWITCH GROUP

Description: This field contains the Switch Group Number.

Valid Entries: 0 - 1

2.5 PACK

Description: This field contains the pack numbers 0 - 7, which are preprinted on the 5271-1 Record.

2.6 CKT

Description: This field contains the circuit numbers 0 - 3, which are preprinted on the 5271-1 Record.

2.7 FORM

Description: This field indicates the form where the TEN (Trunk Equipment Number) is defined.

Valid FORM Entries	
Entry	Definition
ACQS form	5425 Record
LINE form	5109 Record
MLHLN form	5111 Record
TRUNK form	5204 Record

2.8 KEY 1

Description: This field indicates the value entered in the first key field of the form listed in the FORM field.

Valid KEY 1 Entries	
Entry	Definition
QUOTE TN [5E5 and later]	ACQS form
TN	LINE form
MLHG	MLHLN form
TGN	TRUNK form

2.9 KEY 2

Description: This field indicates the value entered in the second key field of the form listed in the FORM field if applicable.

Valid KEY 2 Entries	
Entry	Definition
TERM	MLHLN Form
MEMB	TRUNK Form

2.10 QTY

Description: The QTY field applies only to the TRUNK form and is a method of defining up to 24 trunks, with consecutive physical locations, at a time. QTY specifies the number of trunk member defined.

Valid Entries: 1 - 24

2.11 REMARKS

Description: This field contains any comments deemed locally necessary.

SEC. 2H: 5271-2 RECORD DIGITAL EQUIPMENT NUMBER RECORD

1. GENERAL

The 5271-2 Record is an output-only record and is used to identify the location of digital trunk equipment.

Analog Trunks use analog equipment which is identified on the Trunk Equipment Record (5271-1 Record). Analog and Digital trunks may be combined in the same Trunk Group. Logical Test Port trunks use a Logical Test Port location and are identified on the Logical Test Port Record (5271-3 Record).

1.1 Restrictions

Any SM that is fully loaded with trunks, is required to allow one time slot for idle code and one for audible ring. This means that 510 trunks are the maximum number of trunks available for assignment rather than 512, which is the total number of time slots in an SM. An SM with 1 DLTU which has 8 DFIs, plus 5 TUs, is an example of a SM that is fully loaded with trunks.

Care should also be taken when assigning digital channels. The sequence in which the channels are transmitted depends on the type of carrier system. Refer to Figure 1 for the sequences.

A Digital Equipment Location consists of an 8-digit number in the following format.

DLTU (Digital Line Trunk Unit)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Line Trunk Unit	DLTU	X	0 - 5
Digital Facility Interface	DFI	XX	01 - 10
Digital Channel	CHAN	XX	01 - 48

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

The Base and Control Number and Office Name appear on each page of the record.

2.2 SM

Description: This field contains the Switching Module Number. In an office equipped with CM1 (Communication Module 1), the valid values are 1 - 48. In an office equipped with CM2 (Communication Module 2), the valid values are 1 - 192.

Valid Entries: 1 - 192

2.3 DLTU

Description: This field contains the Digital Line Trunk Unit Number.

Valid Entries: 0 - 5

2.4 DFI

Description: This field contains the Digital Facility Interface Number.

Valid Entries: 1 - 10

2.5 DIGITAL CHANNEL

Description: The Digital Channel Number assignments depend on the type of carrier system being used for that Trunk Group. The difference in the sequence in which the digital channels are transmitted for D4, D2 and D1D are illustrated in Figure 1 .

Valid Entries: 1 - 48

2.6 FORM

Description: This field indicates the form where the DEN (Digital Equipment Number) is defined.

Valid Form Entries	
Entry	Definition
LINE	5109 Record
MLHLN	5111 Record
TRUNK	5204 Record

2.7 KEY 1

Description: This field indicates the value entered in the first key field of the form listed in the FORM field.

Valid KEY 1 Entries	
Entry	Definition
TN	LINE form
MLHG	MLHLN form
TGN	TRUNK form

2.8 KEY 2

Description: This field indicates the value entered in the second key field of the form listed in the FORM field, if applicable.

Valid KEY2 Entries	
Entry	Definition
n/a	LINE form
TERM	MLHLN form
MEMB	TRUNK form

2.9 QTY

Description: The QTY field applies only to the TRUNK form and is a method of defining up to 24 trunks with consecutive physical locations, at a time. QTY specifies the number of trunk members defined.

Valid Entries: 1 - 24

2.10 REMARKS

Description: This field may contain any comments deemed locally necessary.

D4 CARRIER CHANNEL ASSIGNMENTS	D2 CARRIER CHANNEL ASSIGNMENTS	D1D CARRIER CHANNEL ASSIGNMENTS
1	12	1
2	13	13
3	1	2
4	17	14
5	5	3
6	21	15
7	9	4
8	15	16
9	3	5

10	19	17
11	7	6
12	23	18
13	11	7
14	14	19
15	2	8
16	18	20
17	6	9
18	22	21
19	10	10
20	16	22
21	4	11
22	20	23
23	8	12
24	24	24

Figure 1 SEQUENCE IN WHICH THE DIGITAL CHANNELS ARE TRANSMITTED FOR D4, D2, AND D1D CARRIER SYSTEMS

SEC. 2I: 5271-3 RECORD LOGICAL TEST PORT RECORD

1. GENERAL

The 5271-3 Record is an output-only record and is used to identify the Logical Test Port locations. Software-only trunks require an LTP assignment.

Digital and Analog equipment assignments are identified on the 5271-1 and 5271-2 Records, respectively.

The following trunk classes require a Logical Test Port Assignment: "LTPMSU", "LTPALIT", "LTPROTL", "LTPICTC", "LTPWSTTF", "LTPOGTC", "LTPCLBCK", "LTPDCJCK", "LTPOTOTF", "LTPESTF", "LTPDGTTF", "LTPDCTU", "LTPS96TF", "LTPISTFL", "LTPISTFX" and "LTPDFTAC".

A Logical Test Port location consists of the following components.

LOGICAL TEST PORT			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Logical Test Port	LTP	XXX	0-255

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

The Base and Control number and Office Name appear on each page of the record.

2.2 SM

Description: This field contains the Switching Module Number. In an office equipped with CM1 (Communication Module 1), the valid values are 1 - 48. In an office equipped with CM2 (Communication Module 2), the valid values are 1 - 192.

Valid Entries: 1 - 192

2.3 LTP

Description: This field contains the Logical Test Port Number.

Valid Entries: 0 - 255

2.4 TRK GRP NUM

Description: This field contains the Trunk Group Number assigned to each LTP location. Trunk Group Numbers exceeding 999 are allowed only if the range from 1 - 999 has been exhausted.

Valid Entries: 1 - 2000

2.5 TRK MEM NUM

Description: This is the Trunk Member Number assigned to each LTP location. Trunk members exceeding 999 are allowed only if the range from 0 - 999 has been exhausted.

Valid Entries: 0 - 2047

2.6 REMARKS

Description: This field may contain any comments deemed locally necessary.

SEC. 2K: 5209 RECORD

EDSL CALL-BY-CALL FEATURES FORM - TKEDSLD

1. GENERAL

The 5209 Record is available with 5E4(2) and later Software Releases, defines EDSL (Extended Digital Subscriber Line) Call-by-Call features assigned to a B-channel trunk group.

Call-by-Call feature allows a trunk group to be assigned multiple features. Any trunk in a Call-by-Call group can be used for any Call-by-Call feature subscribed to by the group.

In order to have these Call-by-Call SFGs assigned to a trunk group, the TGN must be defined on a TKGRP form (5202 Record) with a TRKCLS of "EDSL" or "EDSLHM", and "Y" entered in the CBC field.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.34.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * TGN

Description: Enter the Trunk Group number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The value entered here must be defined on a TKGRP form where, for 5E9(1) and later, CBC must be set to "Y".

When TGN(s), NET SPEC FAC TYPE(s), BAND(s), and CARRIER ID(s) are assigned on the TKEDSLD form, the corresponding CARRIER ID(s) on the ICF form with FEAT GRP set to "D" must be defined.

2.3 * NET SPEC FAC TYPE

Description: Enter the EDSL Call-by-Call service type.

Valid NET SPEC FAC TYPE Entries	
Entry	Definition
M800 or M8	Software Release: 5E6 and later. Megacom 800 Service.
MAXOWATS or MA	Maximal band OUTWATS uses the maximum band that's subscribed to the trunk group.
OPOTS or OP	Originating POTS.
ORIGFX or ORIGF	Software Release: 5E9(1) and later. Originating from PRI to FX.
ORIGTIE or ORIGT	Software Release: 5E9(1) and later. Originating from PRI to Tie.
OWBAND or OW	OUTWATS with a specific band number.

SDN or S	Software Release: 5E6 and later. Software Defined Network Service.
TERMFx or TERMF	Software Release: 5E9(1) and later. Terminating from FX to PRI.
TERMTIE or TERMT	Software Release: 5E9(1) and later. Terminating from Tie to PRI.
TPOTS or TP	Terminating POTS including DID.
HM	Software Release: 5E11 and later. Hotel Motel This entry supports the ISDN PRI Hotel/Motel and Selected Class of Call Screening secured feature, see Division 2, Section 4A219.
SCOCS	Software Release: 5E11 and later. Selected Class of Call Screening This entry supports the ISDN PRI Hotel/Motel and Selected Class of Call Screening secured feature, see Division 2, Section 4A219.

Data Rules:

For 5E11 and later, the number of unique combinations of NET SPEC FAC TYPE, BAND, CARRIER ID, FACILITY NBR, BEARER CAP and SCOCS SERVICE cannot exceed 1023 for all the TKEDSLD forms.

If NET SPEC FAC TYPE is "OWBAND", then BAND must be entered. Otherwise, BAND must not be entered.

For 5E11 and later, when NET SPEC FAC TYPE is "HM" or "SCOCS", BEARER CAP must be entered.

For 5E11 and later, when NET FAC TYPE is "SCOCS", SCOCS SERVICE must be entered.

If "TERMFx", "TERMTIE", or "TPOTS" is entered, TRK DIR on the TKGRP form must be "2W" or "OUT".

If "OPOTS", "ORIGFX", "ORIGTIE", "OWBAND", "MAXOWATS", "SDN", or "M800" is entered, TRK DIR on the TKGRP form must be "2W" or "INC".

If "OPOTS", "OWBAND", "MAXOWATS", "SDN", or "M800" is entered, the MC RTI value on this form must be defined on an MCRTIDX form (5304 Record). The SFG NUMBER on the MCRTIDX form must be defined on a PFASFG form (5609-3 Record) where the SCR N IDX is entered.

For 5E9(1) and later, if NET SPEC FAC TYPE is "ORIGFX", "ORIGTIE", "TERMFx", or "TERMTIE", FACILITY NBR must be entered.

When the TKEDSLD forms have a NET SPEC FAC TYPE of "ORIGFX", "ORIGTIE", "TERMFx" or "TERMTIE", and the MC RTI has been defined on a MCRTIDX form with a MC ROUTE TYPE of "SFG", the SFG NUMBER on the MCRTIDX form must be defined on a PFASFG form whose SFG TYPE must be one of the following values based on NET SPEC FAC TYPE on the TKEDSLD form:

Valid NET SPEC FAC TYPE and SFG TYPE Combinations	
NET SPEC FAC Type	SFG Type
ORIGFX	OUTFX or 2WFX
TERMFx	INFX or 2WFX
ORIGTIE	OUTTIE or 2WTIE
TERMTIE	INTIE or 2WTIE

NOTE: In all cases, BAND and CARRIER ID will not have been entered on the TKEDSLD form.

For 5E11 and Later:

ISDN PRI Hotel/Motel and Selected Class of Call Screening are secured features. They must be purchased before "HM" or "SCOCS" can be entered in the NET SPEC FAC TYPE field on the TKEDSLD form. A SFSYS form must exist with SFID 219 ACT set to "Y".

When the TKEDSLD forms have a NET SPEC FAC TYPE of "TERMF", "TERMTIE" or "TPOTS", the associated TKGRP form TRK DIRs must be "2W" or "OUT".

When the NET SPEC FAC TYPE field on the TKEDSLD input form is equal to "OPOTS", "OWBAND", "MAXOWATS", "SDN" or "M800", the SCRN IDX field on the PFASFG input form must be entered. The MC RTI field on the TKEDSLD must match the MC ROUTE INDEX field on the MCRTIDX input form. In turn, the corresponding SFG NUMBER field on the MCRTIDX form must match the SFG NBR field on the PFASFG input form.

When the TKEDSLD forms TGN(s), BAND(s), CARRIER ID(s), MC RTI(s) are assigned and NET SPEC FAC TYPE is equal to :

- "OPOTS" or "TPOTS" and on the corresponding MCRTIDX form and MC ROUTE TYPE equals "SFG", the SFG NUMBER(s) on the MCRTIDX form must have a corresponding SFG NBR defined on the PFASFG form, where SFG TYPE equals "EDSL".
- "SDN", and on the corresponding MCRTIDX form and MC ROUTE TYPE equals "SFG", the SFG NUMBER(s) on the MCRTIDX form must have a corresponding SFG NBR defined on the PFASFG form, where SFG TYPE equals "SDN".
- "M800", and on the corresponding MCRTIDX form and MC ROUTE TYPE equals "SFG", the SFG NUMBER(s) on the MCRTIDX form must have a corresponding SFG NBR defined on the PFASFG form, where SFG TYPE equals "M800".
- "MAXOWATS" or "OWBAND" and on the corresponding MCRTIDX form and MC ROUTE TYPE equals "SFG", the SFG NUMBER(s) on the MCRTIDX form must have a corresponding SFG NBR defined on the PFASFG form, where SFG TYPE equals "OUTWATS".

When the TKEDSLD form has NET SPEC FAC TYPE set to "HM" or "SCOCS" and BEARER CAP is set to "56CLR", the corresponding TKGRP form where TGN matches the TGN on the TKEDSLD form, the value of DATA RATE must be entered.

When the TKEDSLD form has a NET SPEC FAC TYPE of "HM" or "SCOCS", and the MC RTI has been defined on a MCRTIDX form with a MC ROUTE TYPE of "SFG", the SFG NUMBER on the MCRTIDX form must be defined on a PFASFG form where SFG TYPE matches NET SPEC FAC TYPE on the TKEDSLD form.

2.4 (*) BAND

Description: Enter the OUTWATS band number.

Valid Entries: 0 - 255

Data Rules:

If NET SPEC FAC TYPE is "OWBAND", then BAND must be entered. Otherwise, BAND must not be entered.

2.5 (*) CARRIER ID

Description: Enter the InterLATA Carrier ID.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

When CARRIER ID is entered, it must be defined on an ICF form (5305-1 Record); for 5E8 and later, FEAT GRP on the ICF form must be "D". CARRIER ID must also be entered on an MCRTIDX form (5304 Record) where the MC ROUTE TYPE is "SFG".

2.6 (*) FACILITY NBR

Description: Enter the Facility number for the FX or Tie trunk group.

Software Release: 5E9(1) and later

Valid Entries: 1 - 99999

Data Rules:

When FACILITY NBR is entered, NET SPEC FAC TYPE must be "ORIGFX", "ORIGTIE", "TERMFx", or "TERMTIE".

2.7 (*) BEARER CAP

Description: The BEARER CAP field is used to specify the bearer capability being used during the call to determine voice or data and the speed at which data is sent.

Software Release: 5E11 and later

Valid Entries:

Valid BEARER CAP Entries	
Entry	Definition
SPEECH	Speech bearer capability
3PT1KHZ	3.1 kHz Audio bearer capability
56CLR	56-kbps clear bearer capability
64CLR	64-kbps clear bearer capability

Data Rules:

When BEARER CAP is entered, NET SPEC FAC TYPE must be "HM" or "SCOCS".

When the TKEDSLD forms have BEARER CAP set to "64CLR", the corresponding (TGN on the TKEDSLD matches TGN on the TKGRP) TKGRP forms DATA RATE field must be "64K".

2.8 (*)SCOCS SERVICE

Description: The SCOCS SERVICE field is used to specify the service identification level associated with the SCOCS (Selected Class Of Call Screening) service.

Software Release: 5E11 and later

Valid Entries: 1 to 99999, or leave blank

Data Rules:

When SCOCS SERVICE is entered, NET SPEC FAC TYPE must be "SCOCS".

2.9 # MC RTI

Description: Enter the route index for the NET SPEC FAC TYPE.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

MC RTI must be defined as the MC ROUTE INDEX on an MCRTIDX form where the TRUNK GROUP NUMBER is not entered and "SFG" or "REORD" is entered in the MC ROUTE TYPE field.

For valid NET SPEC FAC TYPE and SFG TYPE combinations, see table in Section 2.3 .

When the CARRIER IDs and MC RTIs are assigned on the TKEDSLD form, the MC RTI should be defined on a MCRTIDX form, with the same CARRIER ID assigned and MC ROUTE TYPE equal to "SFG".

tkedsld	5ESS Switch	—
(5209)	OFFICE DATA ADMINISTRATION	
	EDSL CALL BY CALL FEATURES	
*1. TGN	_____	
*2. NET SPEC FAC TYPE	_____	
(*) 3. BAND	_____	
(*) 4. CARRIER ID	_____	
(*) 5. FACILITY NBR	_____	
(*) 6. BEARER CAP	_____	
(*) 7. SCOCS SERVICE	_____	
#8. MC RTI	_____	

Figure 1 SAMPLE TKEDSLD FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 2L: 5210 RECORD INTER SM TRUNKING - IMTRK

1. GENERAL

The 5210 Record is available with 5E5 and later Software Releases.

This form is used to define each terminating end for inter-module trunk group members. The inter-module trunk groups entered on this form must be defined on a TKGRP form (5202 Record) with "Y" in the INTER SM TRK field.

For the TGN and MATE TGN to exist simultaneously, the following must be true: one must be an incoming trunk and the other an outgoing trunk, or both must be 2-way trunks.

For more information on Inter-module Trunking, please refer to Division 2, Section 1n.

1.1 Recent Change View

The Recent Change View corresponding to this form is 5.46.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * SM

Description: Enter the Switching Module associated with the inter-module trunk.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM must be defined on an EQIM form (5700-1/2 Record). The SM entered in this field cannot be the same as the SM entered in the MATE SM field.

2.3 * TGN

Description: Enter the Trunk Group Number associated with the inter-module trunk.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The TGN entered cannot be the same as the TGN entered in the MATE TGN field. The TGN/MEMB must not be duplicated on another IMTRK form.

For 5E7 and later, if SM/TGN/MEMBs and MATE SM/TGN/MEMBs are assigned on the IMTRK form, then the SM value must match the first three digits of a TEN, DEN, or (for 5E9(2) and later) NEN and TGN/MEMBs must match TGN/MEMB entry on a TRUNK form.

2.4 * MEMB

Description: Enter the Trunk Group Member associated with the inter-module trunk.

Required Field.

Valid Entries: 0 - 1951

2.5 # MATE SM

Description: Enter the Switching Module associated with the other end of the inter-module trunk group. MATE SM indicates where the other end of this inter-module trunk group member physically terminates.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM must be defined on an EQIM form (5700-1/2 Record).

For 5E7 and later, if SM/TGN/MEMBs and MATE SM/TGN/MEMBs are assigned on the IMTRK form, then the SM value must match the first three digits of a TEN, DEN, or (for 5E9(2) and later) NEN and TGN/MEMBs must match TGN/MEMB entry on a TRUNK form.

2.6 # MATE TGN

Description: Enter the Trunk Group Number associated with the other end of the inter-module trunk group.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The MATE TGN/MEMB must not be duplicated on another IMTRK form.

2.7 # MATE MEMB

Description: Enter the Trunk Group member associated with the other end of the inter-module trunk group.

Required Field.

Valid Entries: 0 - 1951

imtrk
(5210)

5ESS Switch
OFFICE DATA ADMINISTRATION
INTER SM TRUNKING

—

*1. SM ____
*2. TGN ____
*3. MEMB ____

#4. MATE SM ____
#5. MATE TGN ____
#6. MATE MEMB ____

Figure 1 SAMPLE IMTRK FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2M: 5211 RECORD PRIMARY RATE INTERFACE GROUP ASSIGNMENT - PRIGRP

1. GENERAL

This record is available for the 5E9(1) and later Software Releases. Prior to 5E9(1), the D-channel signaling entity only assigns calls to channels on the DS1 facility containing that D-channel. This is called FAS (Facility Associated Signaling) which supports the following configuration:

- 1 D-channel and up to 23 B-channels.

The 5E9(1) and later Software Release continues to support this configuration (referred to as "Custom") which is CCITT and ANSI compatible but not compatible with Bellcore's expansion of these standards.

For 5E9(1) and later, National ISDN PRI is available which is compatible with Bellcore's current technical requirements (i.e., TR1268).

1.1 NFAS (Non-Facility Associated Signaling)

The National ISDN PRI feature allows the D-channel signaling entity to assign calls to B-channels on more than one facility (including the one containing the D-channel). This is referred to as NFAS. Specifically, National ISDN PRI supports the following PRI configurations:

- 1 D-channel and up to 23 B-channels (supports Bellcore requirements); without NFAS.
- 1 D-channel and up to 479 B-channels; with NFAS.
- 2 D-channels and up to 478 B-channels; with NFAS and D-Channel Backup.

1.2 D-Channel Backup Option

When NFAS is employed, the reliability of the signaling performance for the PRIs controlled by the D-channel may be unacceptable. The DCBU capability is suggested to improve the reliability of the D-channel control signaling.

DCBU permits continued access to the network, even if one of the D-channels fails, by transferring the signaling information to a back-up D-channel. DCBU allows a customer to designate a pair of D-channels in separate DS1 facilities as a mated pair. Both D-channels must terminate on the same SM.

1.3 Recent Change View

The corresponding Recent Change view for this form is 5.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 *PRI GROUP

Description: Enter the PRI GROUP number.

Required Field.

Valid Entries:

For 5E9(2) and earlier: 1 - 4096

For 5E10 and later: 1 - 4095

2.3 #PRI TYPE

Description: Enter the PRI TYPE.

Required Field.

Valid PRI TYPE Entries	
Entry	Definition
CUSTOM or C	Custom (AT&T/ LUCENT). Compatible with CCITT and ANSI standards; not compatible with Bellcore expansion on these standards.
STD or S	National ISDN PRI (standard Bellcore compatible).

Data Rules:

For 5E10 and later, when the TGN/MEMBs on the TRUNK form have an entry for DEN, PRI GROUP entered and DCHN DESG is left blank (This defines an EDSL B-channel trunk), and the two right-most digits of DEN, entered on the TRUNK form, are set to 24 or 48, the PRI GROUP, entered on the TRUNK form, must be defined on a PRIGRP form. Therefore, the PRI TYPE on the PRIGRP form must be set to "STD".

➤ **NOTE:** An asterisk (*) preceding a DEN specifies that it was generated automatically from the TRUNK form because QTY was greater than 1.

If PRI TYPE is "CUSTOM", exactly one facility in FACILITY LIST must be entered. If PRI TYPE is "STD", at least one facility in FACILITY LIST must be entered.

When PRI TYPE is "CUSTOM", B CHAN SERV must be blank.

For 5E12, when PRI TYPE is "CUSTOM", STD NSF IE must be "N".

For 5E13 and later, when PRI TYPE is "CUSTOM", STD NSF IE must be "N" or not entered.

2.4 B CHAN SERV

Description: Can B-Channel Service messages be sent to a STD PRI? This field supports the B-Channel Availability Signaling Procedures feature and is valid only with a "STD" PRI TYPE. This field interacts with the RETRY SERV field on the ISDNOPT form (5941 Record).

For more information on the B-Channel Signaling Availability Procedures feature, see Division 2, Section 6I.

Software Release: 5E12 and later

Valid Entries: Blank, Y, N

Data Rules:

When B CHAN SERV is entered, PRI TYPE must be "STD".

When this field is blank, B CHAN SERV is not activated.

When "Y" is entered, PRI TYPE must be "STD". When "N" (or blank) is entered, PRI TYPE must be "STD".

2.5 STD NSF IE

Description: This field is used to specify whether a PRI (Primary Rate Interface) group will use Bellcore Standard NSF IE Interpretation. This field option is only available for National or Standard ISDN (Integrated Services Digital Network) PRIs.

Software Release: 5E12 and later

Default: N (5E12), or Blank (5E13)

Valid Entries: Y, N (5E12) or Blank, Y, N (5E13)

Data Rules:

For 5E12 and later, when STD NSF IE is "Y", PRI TYPE must be "STD".

D-CHANNEL INFORMATION

The DCHN DESG, TGN and MEMB NBR fields are accessed via the Recent Change view; they are shown here for display only.

TBCT SERVICE PARAMETERS

The following fields (Section 2.6 - Section 2.9) define the Two B-Channel Transfer calls allowed over an ISDN (Integrated Services Digital Network) PRI (Primary Rate Interface).

2.6 TBCT ACTIVE

Description: The TBCT ACTIVE field indicates if TBCT is active on this PRI group.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y,N

Data Rules:

The ACT field for SFID 214 must be set to "Y" on the SFSYS form before the TBCT ACTIVE can be set to "Y" on the PRIGRP form.

2.7 MAX ACT TBCT

Description: The MAX ACT TBCT field indicates the maximum number of active transfers allowed.

Software Release: 5E13 and later

Default: 0

Valid Entries: Blank (for no limit), 0 - 60000

2.8 MAX TBCT REQS

Description: The MAX TBCT REQS field indicates the maximum valid transfer requests accepted per 10 second intervals.

Software Release: 5E13 and later
Default: 0
Valid Entries: Blank (for no limit), 0 - 500

2.9 TBCT SERV GRP

Description: The TBCTSERVGRP field indicates the TBCT service group number to which this PRI group is assigned.

Software Release: 5E13 and later
Valid Entries: Blank, 1 - 99999

Data Rules:

A maximum of 100 PRIGRP forms are allowed in a TBCT SERV GRP.

In order to be in the same TBCT SERV GRP, SM in ROW 1 of the FACILITY LIST must be the same for all PRIGRP forms.

2.10 NOTIFY CTRL

Description: Should the controller be notified of the clearing of a transferred call?

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When NOTIFY CTRL is "Y", TBCT ACTIVE must be "Y".

The ACT field for SFID 214 must be set to "Y" on the SFSYS form before the NOTIFY CTRL can be set to "Y" on the PRIGRP form.

FACILITY LIST (FACLIST)

The following fields (Section 2.11 - Section 2.16) define the facilities (T1s) that may be assigned to a PRI Group. If any D-channel or B-channel trunk member is added to the PRI, the corresponding equipment number (the combination of SM, DLTU, DFI and FAC) must exist on this list. When a facility list row is entered, all facility list items must be entered for that row. SM, DLTU, DFI and FAC combinations must also be unique. The SM, DLTU, DFI and FAC combination must be defined on a EQDUP form (5730 Record) as SM, DLTU and DFI PACK NBR, and FAC IND, respectively.

For 5E10 and later, the DLTU, DFI and FAC fields have been replaced with the EQUIPMENT field. This modification allows the assignment of DNU-S facilities to a PRI group.

2.11 SM

Description: Enter the Switching Module number.
Valid Entries: 1 - 192

Data Rules:

The SM value must be the same for all facilities in the list.

For 5E9 and later, each value of SM entered on the FACILITY LIST must have a corresponding EQIM form with the same SM value where the value entered for EQSTATUS is "O" and the value entered for CONFIGURATION supports Primary Rate Interface groups.

2.12 DLTU

Description: Enter the Digital Line/Trunk Unit number.

Software Release: 5E9(2) and earlier

Valid Entries:

5E14 and earlier: 0 - 5

5E15 and later: 0 - 11

Data Rules:

The DLTU, DFI and FAC combination must be unique for each row within that PRI group.

2.13 DFI

Description: Enter the Digital Facility Interface pack number.

Software Release: 5E9(2) and earlier

Valid Entries: 1 - 10.

Data Rules:

The DLTU, DFI and FAC combination must be unique for each row within that PRI group.

2.14 FAC

Description: Enter the Facility number. FAC 0 is for channels 1-24 and FAC 1 is for channels 25-48.

Software Release: 5E9(2) and earlier

Valid Entries: 0 - 1

Data Rules:

If a PRI group is assigned, at least one facility must be assigned. The DLTU, DFI and FAC combination must be unique for each row within that PRI group.

When FAC is 0, DFI USAGE on the EQDUP form (5730 Record) for FAC 0 must be "TRUNK" and EQUIPMENT STATUS must be "O".

When FAC is 1, DFI USAGE on the EQDUP form for FAC 1 must be "TRUNK" and EQUIPMENT STATUS must be "O".

2.15 EQUIPMENT

Description: Enter the Equipment Number. The EQUIPMENT field is used to specify the equipment number (composite equipment number consisting of Equipment Type and Equipment Number). Enter EQUIPMENT in

the following format:

Software Release: 5E10 and later

Valid Entries:

Valid Equipment Type Entries	
Entry	Definition
DLTU	Digital Trunk Equipment Number for PRI
DNUS	Networking Equipment Number
OIU	Optical Interface Unit
PLTU	PCT Line/Trunk Unit Equipment
VIRT	Virtual Equipment.

If Equipment Type is set to "DLTU", this Equipment Number consists of:

Equipment Number, Type DLTU			
Equipment		Format	Valid Entries
Digital Line Trunk Unit	DLTU	X	0 - 5 (5E14 and earlier)
		XX	0 - 11 (5E15 and later)
Digital Facility Interface	DFI	XX	01 - 10
Facility	FAC	X	0 - 1

If Equipment Type is set to "DNUS", this Equipment Number consists of:

Equipment Number, Type DNUS - 5E12 and earlier			
Equipment		Format	Valid Entries
Digital Networking Unit - SONET	DNUS	X	0 - 7
Data Group	DG	X	0 - 1
Synchronous Transport Signal number	STS	X	0 - 5
Virtual Tributary	VT	XX	01 - 28

Equipment Number, Type DNUS - 5E13 and later			
Equipment		Format	Valid Entries
Digital Networking Unit - SONET	DNUS	X	0 - 7
Data Group	DG	X	0 - 1
Synchronous Termination Equipment number	STE	X	1 - 6
Synchronous Transport Signal number	STS	X	1
Virtual Tributary Group	VTG	X	1 - 7
Virtual Tributary Member	VTM	X	1 - 4

When OE TYPE is "O", the OIU Equipment Number consists of:

OE NUMBER, TYPE "O" - (5E16(2) and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	OIU	X	0 - 7
ProtectionGroup	PG	X	0 - 9
SONET Terminating Equipment	STE	X	1
High Level Virtual Container	HVC	X	1 - 3
Low Level Virtual Container Group	LVC GRP	X	1 - 7
Low Level Virtual Container Member	LVC MEM	X	1 - 4
Channel	CH	XX	01 - 24

Data Rules:

SM and EQUIPMENT combinations in FACILITY LIST must be unique.

When EQUIPMENT Type or EQUIPMENT Number is entered, both must be entered.

For 5E10 and later, when the PRIGRP forms have FACILITY LIST entries assigned, with EQUIPMENT

Type of "DLTU". The SM/EQUIPMENT NUMBER[1,1] / EQUIPMENT NUMBER[2,3] entered on the PRIGRP form, must be defined on an EQDUP form as SM/DLTU/DFI PACK NBR.

When EQUIPMENT NUMBER[4,4] on the PRIGRP form is 0, then under the FAC 0 header on the EQDUP form DFI USAGE must be "TRUNK" and EQUIPMENT STATUS must be "O".

When EQUIPMENT NUMBER[4,4] on the PRIGRP form is 1, then under the FAC 1 header on the EQDUP form DFI USAGE must be "TRUNK" and EQUIPMENT STATUS must be "O".

For 5E10 and later, PRI GROUPs assigned on TRUNK forms must be defined on a PRIGRP form. When EQUIPMENT TYPE is "DLTU", the corresponding six left most digits of DEN on the TRUNK form must be entered in the PRIGRP form FACILITY LIST as SM | EQUIPMENT NUMBER[1,1] | EQUIPMENT NUMBER[2,3] respectively.

When the two right-most digits of DEN, entered on the TRUNK form, are 1-24 then the corresponding EQUIPMENT NUMBER[4,4] entry on the PRIGRP form must be 0.

When the two right-most digits of DEN, entered on the TRUNK form, are 25-48 then the corresponding EQUIPMENT NUMBER[4,4] entry on the PRIGRP form must be 1.

NOTE: An asterisk (*) preceding a DEN specifies that it was generated automatically from the TRUNK form because QTY was greater than 1.

For 5E13 and later, for EQUIPMENT TYPE of "DNUS", the SM, EQUIPMENT NUMBER[1,1], EQUIPMENT NUMBER[2,2], EQUIPMENT NUMBER[3,3], EQUIPMENT NUMBER[4,4], EQUIPMENT NUMBER[5,5], EQUIPMENT NUMBER[6,6], entered on the the PRIGRP form must be defined on an EQVT form as SM, DNUS, DATA GROUP, STE, STS, VT GROUP AND VT MEMBER, respectively and VT EQSTAT and DS1S EQSTAT must both be "O".

For 5E16 and later, when EQUIPMENT is "VIRT", SERV TYPE must be "CFS" on the ENETLINK form (5827 Record) for SM of the EQUIPMENT number.

For 5E16 and later, EQUIPMENT number with type "OIU" must be unique.

For 5E16 and later, when EQUIPMENT is "OIU", the SM number must have a matching OIU SM, OIU, PROTECTION GRP, HVC, VT GROUP, and VT MEMBER defined on the EQLVC form (5764 Record).

2.16 INTERFACE ID

Description: Enter the Interface Identifier. INTERFACE ID is not used for Custom PRI message exchange but is provided on this form for data consistency with National ISDN PRIs. It is recommended that 0 be entered for Custom PRIs.

For Standard PRIs, INTERFACE ID is used in message exchange and the assignment of interface IDs per facility must be exactly the same at the switch at the other end of the PRI.

Valid Entries: 0 - 127.

Data Rules:

The INTERFACE ID must be unique for each row within that PRI group.

```

prigrp                                OFFICE DATA ADMINISTRATION
(5211)                                PRI GROUP ASSIGNMENT

*1. PRI GROUP      _____      TBCT SERVICE PARAMETERS
#2. PRI TYPE       _____      5. TBCT ACTIVE        N
                                   6. MAX ACT TBCT        0
STD PRI PARAMETERS      7. MAX TBCT REQS        0
  3. B CHAN SERV  _      8. TBCT SERV GRP      _____
  4. STD NSF IE   _      9. NOTIFY CTRL        N

D-CHANNEL INFORMATION
DCHN DESG   TGN   MEMB NBR

```

```

SCREEN 2 OF 2                        5ESS Switch
prigrp                                OFFICE DATA ADMINISTRATION
(5211)                                PRI GROUP ASSIGNMENT

                                10. FACILITY LIST (FACLIST)
ROW  SM      EQUIPMENT  INTERFACE ID  ROW  SM      EQUIPMENT  INTERFACE ID
 1  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  11  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 2  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  12  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 3  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  13  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 4  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  14  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 5  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  15  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 6  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  16  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 7  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  17  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 8  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  18  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
 9  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  19  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
10  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _  20  _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

```

Figure 1 SAMPLE PRIGRP FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 2N: 5212 RECORD CALLING PARTY NUMBER SCREENING RANGES FORM - SCRNRNG

1. GENERAL

The 5212 Record is available in 5E6 and later Software Releases. It is used to define ranges of valid telephone numbers which are used to screen CPNs (Calling Party Numbers) delivered over PRIs (Primary Rate Interfaces).

A CO (Central Office) may receive CPNs over a PRI interface from a PBX or other CPE (Customer Premise Equipment). These CPNs are screened to determine if a valid CPN was sent by the PBX or CPE. A CPN must fall within one of the defined SCREENING RANGES to pass screening. A CPN not in one of the defined SCREENING RANGES will fail screening.

To indicate that CPNs received from a PBX or CPE should be screened, the CPN SCRNRNG field should be set to "Y" on the TKGRP form (5202 Record) for the PRI. The PBX/CPE ID value on the TKGRP form above is used as the key to this SCRNRNG form.

It should be noted that the far-end office may not send the CPN in the full 10-digit NPANXXXXXX form (i.e., NPA or NXX may not be included). For administrative purposes, the NPA CODE and OFFICE CODE fields of the NOC (Normalized Office Code) form (5501 Record) should be entered to prevent unintended screening failures.

For a further discussion of the CPN screening feature and its options, consult the CPN SCRNRNG, CPN DISC and MAIN DN fields on the TKGRP form (5202 Record). Additionally, a list of PBX/CPE IDs, the trunk groups that use them, and an indicator identifying whether or not screening has been selected can be obtained from the PBXID form (5213 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 7.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * PBX/CPE ID

Description: This field contains the numerical identifier for a PBX or other CPE (Customer Premise Equipment) for which CPN (Calling Party Number)/RN (Redirect Number)/OCN (Original Called Number) screening is to be done.

Valid Entries: 1 - 4095

SCREENING RANGES

This 20-element list contains four fields, NPA, NXX, LOW and HIGH. These fields are used to define up to 20 valid phone number ranges. Each SCREENING RANGE spans on one NPA-NXX, and is delimited by the LOW and HIGH boundary fields (inclusive). A range defined as:

NPA	NXX	LOW	HIGH
312	555	4123	7568

will define the telephone numbers (312) 555-4123 through and including (312) 555-7568 as CPNs that will pass screening.

Two SCREENING RANGES list elements cannot overlap. At least one SCREENING RANGES list element must be entered. Each SCREENING RANGES list element must have all or none of its component fields entered. Within a SCREENING RANGE list element, LOW must be less than or equal to HIGH.

2.3 NPA

Description: Enter the Number Planning Area code for the range. Valid NPAs consist of three digits in the format [2-9] [0-1] [0-9].

Valid Entries: 3 digits

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 and later: 200 - 999

2.4 NXX

Description: Enter the office code for the range. Valid NXXs consist of three digits in the format [2-9] [0-9] [0-9].

Valid Entries: 3 digits

2.5 LOW

Description: Enter the last four digits of the lower boundary TN (inclusive). Values entered for LOW must be less than or equal to values entered for HIGH.

Valid Entries: 4 digits

2.6 HIGH

Description: Enter the last four digits of the higher boundary TN (inclusive).

Valid Entries: 4 digits

SCREEN 1 OF 2

5ESS Switch

scrnrng

OFFICE DATA ADMINISTRATION

(5212)

CALLING PARTY NUMBER SCREENING RANGES

*1. PBX ID _____

2. SCREENING RANGES

NPA	NXX	LOW	HIGH	NPA	NXX	LOW	HIGH
1. _____	_____	_____	_____	6. _____	_____	_____	_____
2. _____	_____	_____	_____	7. _____	_____	_____	_____
3. _____	_____	_____	_____	8. _____	_____	_____	_____
4. _____	_____	_____	_____	9. _____	_____	_____	_____
5. _____	_____	_____	_____	10. _____	_____	_____	_____

```

SCREEN 2 OF 2                                5ESS Switch      _
scrnrng                                OFFICE DATA ADMINISTRATION
(5212)                                CALLING PARTY NUMBER SCREENING RANGES

```

2. SCREENING RANGES

	NPA	NXX	LOW	HIGH		NPA	NXX	LOW	HIGH
11.	___	___	___	___	16.	___	___	___	___
12.	___	___	___	___	17.	___	___	___	___
13.	___	___	___	___	18.	___	___	___	___
14.	___	___	___	___	19.	___	___	___	___
15.	___	___	___	___	20.	___	___	___	___

Figure 1 SAMPLE SCRNRNG FORM 5E6 - 5E11 SOFTWARE RELEASES

```

scrnrng                                5ESS Switch
SCREEN 1 OF 2                            OFFICE DATA ADMINISTRATION
(5212)                                CALLING PARTY NUMBER SCREENING RANGES

```

*1. PBX ID _____

2. SCREENING RANGES (SCREENINGRANGES)

ROW	NPA	NXX	LOW	HIGH	ROW	NPA	NXX	LOW	HIGH	ROW	NPA	NXX	LOW	HIGH
1	___	___	___	___	6	___	___	___	___	11	___	___	___	___
2	___	___	___	___	7	___	___	___	___	12	___	___	___	___
3	___	___	___	___	8	___	___	___	___	13	___	___	___	___
4	___	___	___	___	9	___	___	___	___	14	___	___	___	___
5	___	___	___	___	10	___	___	___	___	15	___	___	___	___

```

scrnrng                                5ESS Switch      _
SCREEN 2 OF 2                            OFFICE DATA ADMINISTRATION
(5212)                                CALLING PARTY NUMBER SCREENING RANGES

```

2. SCREENING RANGES (SCREENINGRANGES)

ROW	NPA	NXX	LOW	HIGH
16	___	___	___	___
17	___	___	___	___
18	___	___	___	___
19	___	___	___	___
20	___	___	___	___

Figure 2 SAMPLE SCRNRNG FORM 5E12 SOFTWARE RELEASE

```

scrnrng                      5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5212)                      CALLING PARTY NUMBER SCREENING RANGES

```

```
*1. PBX/CPE ID _____
```

```
2. SCREENING RANGES (SCREENINGRANGES)
```

ROW	NPA	NXX	LOW	HIGH	ROW	NPA	NXX	LOW	HIGH	ROW	NPA	NXX	LOW	HIGH
1	___	___	___	___	6	___	___	___	___	11	___	___	___	___
2	___	___	___	___	7	___	___	___	___	12	___	___	___	___
3	___	___	___	___	8	___	___	___	___	13	___	___	___	___
4	___	___	___	___	9	___	___	___	___	14	___	___	___	___
5	___	___	___	___	10	___	___	___	___	15	___	___	___	___

```

scrnrng                      5ESS Switch
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5212)                      CALLING PARTY NUMBER SCREENING RANGES

```

```
2. SCREENING RANGES (SCREENINGRANGES)
```

ROW	NPA	NXX	LOW	HIGH
16	___	___	___	___
17	___	___	___	___
18	___	___	___	___
19	___	___	___	___
20	___	___	___	___

Figure 3 SAMPLE SCRNRNG FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 20: 5213 RECORD PBX ID ASSIGNMENT RECORD

1. GENERAL

The 5213 Record is an output-only record available with 5E6 and later Software Releases. It is used to display which PBX IDs (Identifiers) have been used, the Trunk Groups that have been assigned these PBX IDs and whether or not CPN screening is being done on the assigned Trunk Groups.

All data for the 5213 Record is entered on the TKGRP form (5202 Record). Further information on the fields used in this record is contained in the TKGRP form.

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

The Base and Control Number and Office Name are specified on each record.

2.2 PBX ID

Description: This field contains the numerical identifier for a PBX or other CPE (Customer Premise Equipment) for which CPN (Calling Party Number) screening is to be done.

Valid Entries: 1 - 4095

2.3 TGN

Description: This field contains the Trunk Group Number which was assigned the PBX ID.

Valid Entries: 1 - 2000

2.4 CPN SCRNM

Description: This field indicates whether or not CPNs will be screened for PRIs.

Valid Entries: Y, N

SEC. 2P: 5214 RECORD LEASED NETWORK ARS GROUP DEFINITION RECORD - LNARSGD

1. GENERAL

The 5214 Leased Network ARS Group Definition Record is available with 5E6 and later Software Releases. It defines a Leased Network Group, listing all ARS customers that belong to the Leased Network.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.27.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * LN GROUP

Description: The LN GROUP name defines a set of ARS Groups that share a Trunk Group, in particular, an LN CCS7 interoffice trunk group.

Required Field.

Valid Entries: 1 - 8 characters.

2.3 ARGPNAME

Description: The ARS Group ID list consists of up to 100 internal ARS Group IDs. The internal ARS Group ID list must contain at least one but no more than one hundred entries. Each entry must be unique.

Valid Entries: 1 - 8 characters

Data Rules:

An ARGPNAME entered on the LNARSGD form must be defined on the ARSGPA form (5608-2 Record) with the LN CUST ID entered.

SCREEN 1 OF 2

5ESS Switch

lnarsgd

OFFICE DATA ADMINISTRATION

(5214)

LEASED NETWORK ARS GROUP DEFINITION

*1. LN GROUP BUSNET

2. ARGPNAME

1. ACME	11. _____	21. _____	31. _____	41. _____
2. FIDELITY	12. _____	22. _____	32. _____	42. _____
3. MICROENG	13. _____	23. _____	33. _____	43. _____
4. _____	14. _____	24. _____	34. _____	44. _____
5. _____	15. _____	25. _____	35. _____	45. _____
6. _____	16. _____	26. _____	36. _____	46. _____

7. _____	17. _____	27. _____	37. _____	47. _____
8. _____	18. _____	28. _____	38. _____	48. _____
9. _____	19. _____	29. _____	39. _____	49. _____
10. _____	20. _____	30. _____	40. _____	50. _____

SCREEN 2 OF 2

5ESS SWITCH

—

lnarsgd

OFFICE DATA ADMINISTRATION

(5214)

LEASED NETWORK ARS GROUP DEFINITION

2. ARGPNAME

51. _____	61. _____	71. _____	81. _____	91. _____
52. _____	62. _____	72. _____	82. _____	92. _____
53. _____	63. _____	73. _____	83. _____	93. _____
54. _____	64. _____	74. _____	84. _____	94. _____
55. _____	65. _____	75. _____	85. _____	95. _____
56. _____	66. _____	76. _____	86. _____	96. _____
57. _____	67. _____	77. _____	87. _____	97. _____
58. _____	68. _____	78. _____	88. _____	98. _____
59. _____	69. _____	79. _____	89. _____	99. _____
60. _____	70. _____	80. _____	90. _____	100. _____

Figure 1 SAMPLE LNARSGD FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 2Q: 5271-4 RECORD RECORDED ANNOUNCEMENT FUNCTION - RAF

1. GENERAL

The 5271-4 Record is an output-only record and is available with the 5E4(2) and later Software Releases. It shows the RAF (Recorded Announcement Function) equipment location for each member of an announcement trunk group. This record must be referred to when assigning trunks to RAF circuits on the TRUNK form (5204 Record). The Trunk Classes (TRKCLS field on the TKGRP form) for announcement trunks connecting to RAF circuits are "RAFANNC", "RAFCTR" or "RAFDTA".

A RAF equipment location consists of:

RAF			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
RAF Unit Number	—	X	0 - 7
RAF Circuit Number	—	XX	00 - 31

2. RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field contains the Base and Control Number and Office Name on each record.

2.2 SM

Description: This field contains the Switching Module number, which is defined on an EQIM form (5700 Record).

Valid Entries: 1 - 192

2.3 RAF UN

Description: This field contains the Recorded Announcement Function Unit number.

Valid Entries: 0 - 7

2.4 DATA GROUP

Description: This field contains the Data Group Number.

Valid Entries: 0 or 1

2.5 PATTERN

Description: This field contains the stuffing pattern assigned. A value is designated in this field if the RAF TYPE is "CTR" or "DTA". When the RAF TYPE is "ANN", this field is blank.

A stuffing pattern is a mechanism to economize on time slots since not all 32 time slots associated with a PIDB are utilized. DTA/CTR RAFs use less than two-thirds of the time slots associated with their PIDBs and can, therefore, take advantage of stuffing. When three DTA/CTR RAFs exist on the same SM and Data Group, and each RAF uses a different stuffing pattern, two PIDBs worth of time slots are used instead of three.

Channel Assignments for DSU2-RAF DTA Announcement Ports:

CHANNELS

```

0          1          2          3
SP 01234567890123456789012345678901

```

A 00110110110110110110110110110110
B 01011011011011011011011011011010
C 01101101101101101101101101101100

The 1 represents a channel assignment that is allowed and a 0 represents a channel assignment that is not allowed.

Valid Entries: A, B, C

2.6 CHANNEL NUMBER

Description: This field contains the RAF Channel Number.

Valid Entries: 0 - 31

2.7 RAF TYPE

Description: This field contains the RAF Service Type.

Valid RAF TYPE Entries	
Entry	Definition
ANN	Announcement Service using 32 channels.
CTR	Coin Tone Receiver using 20 channels.
DTA	Dial Through Announcement Service using 20 channels.

2.8 TRUNK GROUP

Description: This field contains the Trunk Group number.

Valid Entries: 1 - 2000

2.9 TRUNK MEMBER

Description: This field contains the Trunk Group Member number.

Valid Entries: 0 - 1951

SEC. 2R: 5215 RECORD UTILITY TELEMETRY TRUNK GROUP FORM - UTTKGRP

1. GENERAL

The 5215 Record is available with the 5E9(2) and later Software Releases. This record is used to define the parameters for a Utility Telemetry Trunk Group.

This form is used for the Suppressed Ringing secured feature. For more information on this feature, see Division 2, Section 4A186.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.16.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 (*) TGN

Description: Enter the Trunk Group Number.

Software Release: 5E9(2) and later
Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

When TGN is defined on this form, a TKGRP form must be defined with the same TGN and UTT must be "Y" on the TKGRP form.

Before using this form, the Suppressed Ringing secured feature must be purchased and the SFID 186 ACT field set to "Y" on the SFSYS form (5713-1 Record).

2.3 CTI DIG

Description: Enter the call type information digit off-hook TIU (Telemetry Interface Unit) type.

Software Release: 5E9(2) and later
Required Field.

Default: 70

Valid Entries: 00 - 99

2.4 ST

Description: Enter the ringing duration in milliseconds for a start pulse digit.

Software Release: 5E9(2) and later
Required Field.
Default: 0
Valid Entries: 0 - 999

2.5 STP

Description: Enter the ringing duration in milliseconds for a start pulse prime digit.

Software Release: 5E9(2) and later
Required Field.
Default: 50
Valid Entries: 0 - 999

2.6 ST2P

Description: Enter the ringing duration in milliseconds for a start pulse prime 2 digit.

Software Release: 5E9(2) and later
Required Field.
Default: 100
Valid Entries: 0 - 999

2.7 MAX CALL TIME

Description: Enter the maximum call time duration in seconds.

Software Release: 5E9(2) and later
Required Field.
Default: 20
Valid Entries: 1 - 999 seconds

uttkgrp	5ESS Switch	—
(5215)	OFFICE DATA ADMINISTRATION	
	UTILITY TELEMETRY TRUNK GROUP	
*1. TGN		
2. CTI DIG	70	
3. ST	0	
4. STP	50	
5. ST2P	100	
6. MAX CALL TIME	20	

Figure 1 SAMPLE UTTKGRP FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 2T: 5217 RECORD CALL INSTANCE CODE DISTRIBUTION FORM - CICDIST

1. GENERAL

The 5217 Record is available with the 5E15 and later Software Releases. The CICDIST (Call Instance Code Distribution) form specifies SM2000 (Switching Module 2000) modules in an office for CIC block distribution.

This form is used for the ATM Global Routing and Signaling secured feature which is available with 5E15 Feature Release 1. For more information on this feature, see Division 2, Section 4A567.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.70.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * KEY

Description: Key for the form.

Software Release: 5E15 and later

Required Field.

Default: 1

Valid Entries: 1

Data Rules:

Key must be 1 for this form.

CIC DISTRIBUTION (CICDIST)

These fields are used to specify SM-2000 modules in an office for CIC (Call Instance Code) block distribution.

2.3 SM2K MODULE

Description: CICDIST is a list of up to 23 SM2000s in the office. The service provider must specify the SM2000 modules over which CICs are to be distributed.

Software Release: 5E15 and later

Required Field.

Valid Entries: Blank, or 1 - 192

Data Rules:

At least 1 SM2000 MODULE number in the CIC DISTRIBUTION list must be entered.

SM2000 MODULES in CIC DISTRIBUTION list must be unique.

The CICDIST form can only be entered when the ACT field for SFID 567 is set to "Y" on the SFSYS form (5713 Record).

Each SM2000 MODULE entered on the CICDIST form must also be defined on the EQIM form (5700 Record) with UNIT TYPE set to "SM2000", "SM2005", or "SMU6".

When the CICDEF form is entered, at least one SM2000 MODULE must be provisioned for CIC distribution on the CICDIST form.

2.4 INH DIST

Description: This field indicates whether or not an SM-2000 should use the CIC (Call Instance Code) Redistribution process. This field was added to support the BICC (Bearer Independent Call Control) Static CIC Allocation feature. For more information on this feature, see Division 2, Section 7BF.

Software Release: 5E16 and later

Valid Entries: Y, N

When INH DIST is entered, SM2K MODULE must also be entered.

INH DIST must be "N" for at least one SM2K MODULE.

LTG CIC DISTRIBUTION (LTGCICDIST)

The LTG (Large Terminal Growth) CIC (Call Instance Code) DISTRIBUTION section is a list of up to 23 SM-2000 switching modules in the office over which CICs are distributed. This list is no display and is used only during Large Terminal Growth.

2.5 SM2K MODULE

Description: The SM2K MODULE is a no change field which specifies the SM-2000 modules over which CICs are to be distributed. This field was added to support the Large Terminal Growth for IVTOA (Integrated Voice Telephony Over ATM (Asynchronous Transfer Mode) feature. (For more detailed information on this feature, see Division 2, Section 1CO.

Software Release: 5E15 and later

```

cicdist                      5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5217)                       CALL INSTANCE CODE (CIC) DISTRIBUTION

```

```

*1. KEY 1                    2. CIC DISTRIBUTION (CICDIST)
                               SM2K      SM2K      SM2K      SM2K
                               ROW  MODULE ROW  MODULE ROW  MODULE ROW  MODULE
1      _____  7      _____  13      _____  19      _____
2      _____  8      _____  14      _____  20      _____
3      _____  9      _____  15      _____  21      _____
4      _____  10     _____  16      _____  22      _____
5      _____  11     _____  17      _____  23      _____
6      _____  12     _____  18      _____

```

```

cicdist                                5ESS Switch      _
SCREEN 2 OF 2                          OFFICE DATA ADMINISTRATION
(5217)                                CALL INSTANCE CODE (CIC) DISTRIBUTION

```

LTG CIC DISTRIBUTION (LTGCICDIST)

SM2K	SM2K	SM2K	SM2K
MODULE	MODULE	MODULE	MODULE
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Figure 1 SAMPLE CICDIST FORM 5E15 SOFTWARE RELEASE

```

cicdist                                5ESS Switch
SCREEN 1 OF 2                          OFFICE DATA ADMINISTRATION
(5217)                                CALL INSTANCE CODE (CIC) DISTRIBUTION

```

*1. KEY 1

2. CIC DISTRIBUTION (CICDIST)

SM2K	INH	SM2K	INH	SM2K	INH	SM2K	INH	
ROW	MODULE	DIST	ROW	MODULE	DIST	ROW	MODULE	DIST
1	—	—	7	—	—	13	—	—
2	—	—	8	—	—	14	—	—
3	—	—	9	—	—	15	—	—
4	—	—	10	—	—	16	—	—
5	—	—	11	—	—	17	—	—
6	—	—	12	—	—	18	—	—
						19	—	—
						20	—	—
						21	—	—
						22	—	—
						23	—	—

```
cicdist          5ESS Switch          _
SCREEN 2 OF 2    OFFICE DATA ADMINISTRATION
(5217)          CALL INSTANCE CODE (CIC) DISTRIBUTION
```

LTG CIC DISTRIBUTION (LTGCICDIST)

SM2K	SM2K	SM2K	SM2K
MODULE	MODULE	MODULE	MODULE

Figure 2 SAMPLE CICDIST FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 2U: 5218 RECORD BICC GRP CIC DEFINITION FORM - CICDEF

1. GENERAL

The 5218 Record is available with the 5E15 and later Software Releases. The BICC (Bearer Independent Connection Control) Group CIC (Call Instance Code) Definition form is used to populate ATM packet CICs for a BICC group.

This form is used for the ATM Global Routing and Signaling secured feature which is available with 5E15 Feature Release 1. For more information on this feature, see Division 2, Section 4A567.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.72.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * BICC GRP

Description: The BICC GRP field is used to designate the bearer channel which carries voice calls over the packet switched network to a given destination.

Software Release: 5E15 and later

Required Field.

Valid Entries: 7000 - 7999

Data Rules:

Each BICC GRP entered has to be defined as a TGN on the TKGRP form (5202 Record)

2.3 # BASE CIC

Description: The BASE CIC field is used to indicate the base call instance code.

Software Release: 5E15 and later

Required Field.

Valid Entries: 1 - 4294967039 (up to 10 digits)

2.4 # TOTAL CICS

Description: The TOTAL CICS field is used to indicate the number of CICs to be allocated for the BICC GRP.

Software Release: 5E15 and later

Required Field.

Valid Entries: 256 - 65536, in multiples of 128

Data Rules:

TOTAL CICS entered cannot exceed the maximum number of CIC blocks for an office (131072).

- ▲ **WARNING:** The maximum number of CIC blocks per SM-2000 module cannot exceed 6000. CIC blocks are displayed on the CICDEF form, where the number of blocks is TOTAL CICS/128. The SM- 2000 modules are defined on the CICDIST form (5217 Record).

```
cicdef                                5ESS Switch
                                     OFFICE DATA ADMINISTRATION
(5218)                               BICC GRP CIC DEFINITION

*1. BICC GRP      _____
#2. BASE CIC      _____
#3. TOTAL CICS    _____
    TOT CIC BLKS  _____
```

Figure 1 SAMPLE CICDEF FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 2X: 5275 RECORD BLOCKED TRUNK GROUP ASP FCD CODES - TKBLKCD

1. GENERAL

The 5275 Record is available with 5E15 and later Software Releases, and provides private facility trunk groups the capability of blocking selected (unrestricted FCD) triggers by those users who show no interest in using specific services and do not want to access them by inadvertently dialing the trigger code. This form was added to support the ASP Unrestricted FCD Trigger feature. See Division 2, Section 4A572 for more information.

The TKBLKCD form is used by the secured feature ASP Unrestricted FCD Trigger (SFID 572). Therefore, when the TKBLKCD form is used, the ACT field for SFID 572 on SFSYS form must be set to "Y".

1.1 Recent Change View

The corresponding Recent Change Views for this form is 5.65.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * TGN

Description: Enter the Trunk Group Number for which certain ASP FCD codes will be blocked.

Valid Entries: Enter 1 - 4000

Data Rules:

When TGN is entered, at least one FCD CODE must be entered.

When URT FCD BLK is "Y" on the TKGRP form, then the corresponding TGN cannot be used on the TKBLKCD form.

When TGN field is entered on the TKBLKCD form, the same TGN must be entered on the TKGRP form and have TRKCLS of "PF", "PFITT" or "PFLASH".

BLOCKED CODES LIST

Field Section 2.3 refers to the BLOCKED CODES LIST, consisting of up to 32 FCD triggers.

2.3 FCD CODE

Description: Enter the ASP unrestricted FCD code to be blocked.

Valid Entries: Enter Blank, or 1 to 7 dialable digits (0 - 9,* or #). If # or * are entered as single characters, they must be preceded by a space.

Data Rules:

At least one FCD CODE must be entered.

FCD CODE must be unique in BLOCKED CODES LIST.

tkblkcd	5ESS Switch						—
	OFFICE DATA ADMINISTRATION						
(5275)	BLOCKED TRUNK GROUP ASP FCD CODES						
*1. TGN _____							
2. BLOCKED CODES LIST (BLKCODESLIST)							
FCD	FCD	FCD	FCD	FCD	FCD	FCD	
ROW CODE	ROW CODE	ROW CODE	ROW CODE	ROW CODE	ROW CODE	ROW CODE	
1 _____	7 _____	13 _____	19 _____	25 _____	31 _____		
2 _____	8 _____	14 _____	20 _____	26 _____	32 _____		
3 _____	9 _____	15 _____	21 _____	27 _____			
4 _____	10 _____	16 _____	22 _____	28 _____			
5 _____	11 _____	17 _____	23 _____	29 _____			
6 _____	12 _____	18 _____	24 _____	30 _____			

Figure 1 SAMPLE TKBLKCD FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 2Y: 5221 RECORD

LTG TO PRESERVE SM2K AND CADN FOR BICC - LTGPCI

1. GENERAL

The 5221 Record is available with the 5E15 and later Software Releases. The LTGPCI (Large Terminal Growth to Preserve SM2K and CADN (Call Instance Block Circuit Administration) for BICC (Bearer Independent Call Control Group)) form preserves the SM2K and CADN values during the LTG (Large Terminal Growth) for IVOTA (Integrated Voice and Telephony Over ATM (Asynchronous Transfer Mode)) data.

This form is used for the Large Terminal Growth for IVTOA feature which is available with 5E15 Feature Release 4. For more information on this feature, see Division 2, Section 1CO.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.75.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *BICC GRP

Description: As of the 5E16(2) release, the BICC GRP field is replaced with PKT GRP field. See the PKT GRP field on this form for usage information. The BICC (Bearer Independent Call Control Group) field specifies the bearer channel that carries traffic over the packet ATM network.

Software Release: 5E15 - 5E16(1)

Required Field.

Valid Entries: 7000 - 7999

2.3 *PKT GRP

Description: The PKT GRP field indicates the number of packet group that carries traffic over the packet ATM network. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (See Division 2, Section 7BX.)

Software Release: 5E16(2) and later

Required Field.

Valid Entries: 7000 - 7999

2.4 *BLK INDX

Description: The BLK INDX (Call Instance Code Block Index) field indicates the index number of the CIC (Call Instance Code) block. A CIC block contains 128 CICs.

Software Release: 5E15 and later

Required Field.

Valid Entries: 0 - 511

2.5 SM2K

Description: The SM2K (SM-2000 Switching Module) field indicates the SM-2000 Switching Module on which a given CIC (Call Instance Code) block is distributed. This is a no change field.

Software Release: 5E15 and later

Valid Entries: 1 - 192

2.6 CADN

Description: The CADN (Call Instance Block Circuit Administration) field indicates the status of the CIC (Call Instance Code) block after switch initialization. This is a no change field.

Software Release: 5E15 and later

Valid Entries:

Valid CADN Entries	
Entry	Definition
TMIS	Put port in-service following a full initialization.
TMIOCB	Put port in OOS/CADN/BLKD (Out of Service/Circuit Administration/Blocked) state after initialization.
TMIOCD	Put port in OOS/CADN/DSBLD (Out of Service/Circuit Administration/Disabled) state after initialization.
TMIOCL	Put port in OOS/CADN/LKDO (Out of Service/Circuit Administration/Locked Out) state after initialization.

```
ltgpci                      5ESS Switch          _
                           OFFICE DATA ADMINISTRATION
                           LTG TO PRESERVE SM2K AND CADN FOR BICC
```

```
*1. BICC GRP  _____
*2. BLK INDX  _____
    SM2K      _____
    CADN      _____
```

Figure 1 SAMPLE LTGPCI FORM 5E15 - 5E16(1)

```
ltgpci                      5ESS Switch          _
                           OFFICE DATA ADMINISTRATION
                           LTG TO PRESERVE SM2K AND CADN FOR IVTOA
```


*1. PKT GRP _____
*2. BLK INDX _____
SM2K _____
CADN _____

Figure 2 SAMPLE LTGPCI FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 2Z: 5222 RECORD LTG TO PRESERVE CADN FOR CIC - LTGCADN

1. GENERAL

The 5222 Record is available with 5E15 and later Software Releases. The LTG (Large Terminal Growth) to Preserve CADN (Call Instance Block Circuit Administration) for CIC (Call Instance Code) form preserves the CADN values during the LTG for IVOTA (Integrated Voice and Telephony Over ATM (Asynchronous Transfer Mode)) data.

This form is used for the Large Terminal Growth for IVTOA feature which is available with 5E15 Feature Release 4. For more information on this feature, see Division 2, Section 1CO.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.76.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *BICC GRP

Description: As of the 5E16(2) release, the BICC GRP field is replaced with the PKT GRP field. See the PKT GRP field on this form for usage information. BICC (Bearer Independent Call Control Group) field specifies the bearer channel that carries traffic over the packet ATM network.

Software Release: 5E15 - 5E16(1)

Required Field.

Valid Entries: 7000 - 7999

2.3 *PKT GRP

Description: The PKT GRP (Packet Group Number) field is used to specify the number of packet group that carries traffic over the packet ATM network. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (See Division 2, Section 7BX.)

Software Release: 5E15 - 5E16(1)

Required Field.

Valid Entries: 7000 - 7999

2.4 *NCIC

Description: The NCIC (Normalized Call Instance Code) field indicates the Bearer Independent Call Control NCIC.

Software Release: 5E15 and later

Required Field.

Valid Entries: 0 - 65535

2.5 CADN

Description: The CADN (Call Instance Code Circuit Administration) field indicates the status of the CIC (Call Instance Code) after switch initialization. This is a no change field.

Software Release: 5E15 and later

Valid Entries:

Valid CADN Entries	
Entry	Definition
TMIIS	Put port in-service following a full initialization.
TMIOCB	Put port in OOS/CADN/BLKD (Out of Service/Circuit Administration/Blocked) state after initialization.
TMIOCD	Put port in OOS/CADN/DSBLD (Out of Service/Circuit Administration/Disabled) state after initialization.
TMIOCL	Put port in OOS/CADN/LKDO (Out of Service/Circuit Administration/Locked Out) state after initialization.

```

ltgcadn                                5ESS Switch                —
                                     OFFICE DATA ADMINISTRATION
                                     LTG TO PRESERVE CADN FOR CIC

*1. BICC GRP _____
*2. NCIC      _____
    CADN      _____
  
```

Figure 1 SAMPLE LTGCADN FORM 5E15 - 5E16(1)

```

ltgcadn                                5ESS Switch                —
                                     OFFICE DATA ADMINISTRATION
                                     LTG TO PRESERVE CADN FOR CIC

*1. PKT GRP  _____
*2. NCIC      _____
    CADN      _____
  
```

Figure 2 SAMPLE LTGCADN FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3: ROUTING AND CHARGING FORMS

SEC. 3A: 5300-1 RECORD DIGIT ANALYSIS SELECTOR FORM - DAS

1. GENERAL

The 5300-1 Record is used to define each DAS (Digit Analysis Selector) in a 5ESS Switch. It is intended to be used as an office record and as a source document for data entry into the DAS form.

1.1 Digit Analysis

The DAS is the initial step in the analysis and routing of dialed digits. The DAS is indexed from either a Line Class Code on an LCC form (5306 Record) or a Trunk Group on a TKGRP form (5202-1 Record). The DAS provides one of two outputs: (1) a PDIT and an LDIT, or (2) an INDIT and an LDIT. A description of each follows.

- The PDIT (Prefix/Feature Digit Interpreter Table) is used to interpret Standard Prefixes (0+, 1+), Operator Codes (0- and 010) and Feature Access Codes (72, 73, etc.). For the complete list of codes, see the PDIT form (5300-2 Record).
- The INDIT (Incoming Trunk Preliminary Digit Interpreter Table) is used to interpret digits received from an incoming or two-way Trunk Group. The INDIT is defined on the INDIT form (5309 Record).
- The LDIT (Local Digit Interpreter Table) is used to interpret all codes dialable from local telephones or accessible by Incoming or two-way Trunks. The LDIT is defined on an LDIT form (5300-3 Record).

1.2 Digit Analysis Selector

The DAS (Digit Analysis Selector) may be numbered from 1 - 254. This provides flexibility in routing not only between Rate Centers but also, where tarified, within a Rate Center. The DAS number is selected based on inputs from a Line Class Code or a Trunk Group.

1.3 Trunk Groups

Certain Trunk Groups may be assigned a LINE Digit Analysis Selector. These Trunk Groups must have a Trunk Class of "PF", "PFLASH", "PFITT", "EDSL" or "EDSLHM". This assignment might be used if it is desired that the incoming trunks have the same digit analysis capabilities as an originating line in this office.

1.4 IDP Digit Analysis

The terminal's (line or trunk) Digit Analysis Selector might be used for subsequent digit analysis if the terminal belongs to an IDP (Individualized Dialing Plan) Group. This option is available as a BRCS feature.

1.5 CCS Trunks

Digit analysis is invoked for incoming CCS (Common Channel Signaling) trunks based on TCM (Traveling Class Mark) information contained in the IAM (Initial Address Message) of the incoming call. For CCIS6 or ISUP7 calls, TCM information is used to determine if the call is in either the Direct Egress or International Outbound routing categories. CCIS6 and ISUP7 calls are those calls originating on trunks with either "CCIS6" or "ISUP7" in the INPULSING field of a TKGRP form (5202 Record), i.e., trunks carrying CCIS6 and ISDN-UP calls.

1.6 Special DAS Values

Specific DAS values exist as of 5E4(2) and later Software Releases. These values must be defined if routing other than the routing specified by the incoming trunk is required. Specific DAS values will override the DAS value defined on the TKGRP form. The following lists services and features which require these DAS values:

DAS Value	Service/Feature
81	International outbound. Fully-coded addressing. Used to translate international data calls (CCIS6 and ISUP7).
82	CSDC (Circuit-Switched Data Capability). Dedicated/direct egress for international outbound calls (CCIS6 and ISUP7).
88	Software Release: 5E5 and later. ACP (Action Control Point) in an SDN (Software Defined Network). A 5ESS Switch that is an ACP will use this DAS to determine if a query should be sent to the NCP (Network Control Point) for routing information.
89	Dedicated egress - voice. Used to route SDN and direct connect calls throughout the PSN (Public Switched Network) to a terminating toll switch. At the terminating switch, Dedicated Egress Voice is used to translate SDN and direct connect voice calls and route them to a directly connected PBX, via direct egress, or to a local office, via switched egress (CCIS6 and ISUP7).
90	Dedicated egress - data. Used to route SDN calls through the PSN to a terminating toll switch. At the terminating switch, Dedicated Egress Data is used to translate the SDN data call and route it to a directly connected PBX, via direct egress, or to a local office, via switched egress (CCIS6 and ISUP7).
91	64 KB Clear - Single Circuit. Voice or data (ISUP only).
92	64 KB Restricted - Single Circuit. Restricted to data only (ISUP7 only).
97	Dedicated Egress - Voice - CCS7 Preferred. Required for Alliance Teleconferencing (ISUP7 only).
98	Dedicated Egress - Data - CCS7 Preferred, 56 kbps (ISUP7 only).

If any trunks are assigned an INPULSING or OUTPULSING of "ISUP7" on the TKGRP form, then DAS values 81, 82, 89, 90, 91, 92, 97 and 98 must be defined on this form.

If any trunks are assigned an INPULSING or OUTPULSING of "CCIS6" on the TKGRP form, then DAS values 81, 82, 89 and 90 must be defined on this form.

1.7 Foreign Area Translator

For 5E6 and later Software Releases, operating companies can make use of a FAT (Foreign Area Translator) LDIT during digit analysis. The FAT/LDIT performs further digit analysis on LDITs that are interpreting common dialed or impulsed digit strings.

The LINE DAS LOCAL DIT or TRUNK DAS LOCAL DIT values assigned on this DAS form cannot equal the LDIT value assigned on a SMLDIT form (5315 Record) where FAT = "Y". In other words, an LDIT defined as a FAT/LDIT cannot be assigned to a DAS. FAT/LDITs can only be pointed to by other LDITs. For more information concerning the implementation and use of the FAT/LDIT see Division 2, Section 1AO.

1.8 Recent Change View

The corresponding Recent Change View for this form is 9.1

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * DIGIT ANALYSIS SELECTOR

Description: Enter the Digit Analysis Selector number.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

LINE DAS

Complete this section (fields Section 2.3 - Section 2.4) if the Digit Analysis Selector is indexed from a Line Class Code. When the LINE DAS section is completed, the TRUNK DAS section must be blank.

2.3 PREFIX/FEATURE DIT

Description: The PDIT (Prefix/Feature Digit Interpreter Table) is used to define Standard Prefixes (0+, 1+), Operator Codes (0- and 010) and Feature Access Codes (72, 73, etc.). At least one PDIT is required in every 5ESS Switch which has lines. When a 1 is entered in these columns, the ODA system will provide standard Prefix/Feature Digit Interpreter Table data.

Valid Entries: 1 - 999

2.4 LOCAL DIT

Description: Enter the LDIT (Local Digit Interpreter Table) number. The LDIT defines all codes that are dialable by local lines or accessible by Incoming or two-way Trunks.

Valid Entries: 1 - 999

Data Rules:

The LDIT must be defined on an LDIT form (5300-3 Record) and/or on an IDDD form (5307 Record).

TRUNK DAS

Complete this section (fields Section 2.5 - Section 2.6) if the Digit Analysis Selector is indexed from an Incoming or two-way Trunk Group. When the TRUNK DAS section is completed, the LINE DAS section must be blank.

2.5 INC. TRUNK PRELIMINARY DIT

Description: Enter the INDIT (Incoming Trunk Preliminary Digit Interpreter Table) number. The INDIT defines the type of routing to be used for incoming trunk calls.

Valid Entries: 1 - 999

2.6 LOCAL DIT

Description: Enter the LDIT (Local Digit Interpreter Table) number. These columns are normally used for Local Tandem Trunks which impulse 7 or 10 digits. The same LDIT used for a Line DAS may be used.

Valid Entries: 1 - 999

Data Rules:

When the TRUNK DAS section is specified, an Incoming Trunk Preliminary DIT entry is required along with a Local DIT entry.

2.7 PKT SW

Description: This is a Recent Change only field and indicates whether this DAS is used for packet switching.

2.8 ESCO

Description: Emergency Service Central Office Number. This field identifies the originating office or calling area of an E911 caller. It is used to retrieve an ESN (Emergency Service Number) which, in turn, determines routing to the proper emergency bureau.

Software Release: 5E7 and later

Valid Entries: 1 - 255

Data Rules:

ESCO must be defined on an ESCO form (5541 Record).

2.9 REMARKS

Description: This field may contain any entries deemed locally necessary.

Valid Entries: 1 - 16 characters

das	5ESS Switch	—
5300-1	OFFICE DATA ADMINISTRATION	
	DIGIT ANALYSIS SELECTOR	
* 1. DIGIT ANALYSIS SELECTOR 01		
2. LINE DAS	5. TRUNK DAS	
3. PREFIX / FEATURE DIT 001	6. INC. TRUNK PRELIMINARY DIT	—
4. LOCAL DIT 001	7. LOCAL DIT	—
8. ESCO —		
9. REMARKS LOCAL TRANSLATOR		

Figure 1 SAMPLE DAS FORM 5E7 - 5E14 SOFTWARE RELEASES

das	5ESS Switch	—
5300-1	OFFICE DATA ADMINISTRATION	
	DIGIT ANALYSIS SELECTOR	
* 1. DIGIT ANALYSIS SELECTOR —		
2. LINE DAS	5. TRUNK DAS	

3. PREFIX / FEATURE DIT	_____	6. INC. TRUNK PRELIMINARY DIT	_____
4. LOCAL DIT	_____	7. LOCAL DIT	_____
8. ESCO	_____		
9. REMARKS	_____		

Figure 2 SAMPLE DAS FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 3B: 5300-2 RECORD PREFIX/FEATURE DIGIT INTERPRETER FORM - PDIT

1. GENERAL

The 5300-2 Record is used to define the Prefix/Feature Digit Interpreter in a 5ESS Switch.

The purpose of PDIT is to provide information defining feature and operator access and to provide prefix information for dialed codes which will be analyzed in the LDIT (Local Digit Interpreter Table). Digit analysis for all line originated calls in a 5ESS Switch start in PDIT. At least the first digit of every valid dialable code must be represented in PDIT.

1.1 Initial Data

Standard codes, normally used in an office, are provided by the ODA system for PDIT 001. See Figure 2. This data is provided whenever an office is initialized for a new start or during a retrofit. Once this initial set of data is provided, it may be changed if required.

For a retrofit, the data within a form is not changed. However, if any forms are missing, they will appear again on the new generic side. If an office requires a PDIT that is significantly different from the standard forms, it is recommended that instead of modifying PDIT 001 another PDIT be defined (e.g., 002) for assignment. PDIT 001 may be deleted in its entirety if not assigned in this office.

Codes are added for BRCS (Business and Residence Custom Service) feature access and for CI (Carrier Interconnect).

The codes starting with 10X represent the FGD CACs (Carrier Access Codes) added for the Carrier Interconnect feature. The FGD CAC format is 10XXX or 101XXXX, where XXX or XXXX is the CIC (Carrier Identification Code). The values allowed in the office for the CIC and CAC depend on the value of the FGD PHASE field on the OFCOPT form; the PDIT form is not affected. See the OFCOPT form and Division 2, Section 1BI for more information on the FGD CAC. These numbers will be translated in the Inter-LATA Carrier Feature Record, ICF form (5305 Record), instead of LDIT.

1.2 IDDD Operator Digits

Customers may incorrectly dial 0 + the FGD CAC, (rather than correctly dialing the FGD CAC only) to reach a vendor other than their PIC. For an equal access office which does not use 010 for an IDDD operator, the route index should be the fixed route index to an announcement such as the "VACANT" code announcement.

1.3 Recent Change View

The corresponding Recent Change View for this form is 9.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PDIT

Description: Enter the Prefix/Feature Digit Interpreter Table Number.

Valid Entries: 1 - 999

2.3 * DIGITS TO INTERPRET

Description: Enter the Prefix/Feature dialed digits.

Valid Entries:

1 - 7 digits (0 - 9, *, or #); or

10X followed by 1 to 5 digits (0 - 9, *, or #)

Data Rules:

Carrier Interconnect (10X) calls cannot have a CALL TYPE of "IDDDOPR" or "OPRECAL."

When at least one PDIT form is entered with "10X" as the first 3 digits of DIGITS TO INTERPRET, a FIXRT form must be defined with FIXED ROUTE TYPE equal "INV10XX".

DIGITS TO INTERPRET must be greater than 2.

2.4 # CALL TYPE

Description: Enter the PDIT Call Type.

Required Field.

Valid CALL TYPE Entries	
Entry	Definition
CICUT	Cut through to carrier. Used for FGD CAC + # dialed calls. Such calls are cut through to the specified carrier based on the carrier specific code index, and Route Index found on the ICF form.
COMB	Combined Feature and LDIT Call Type. Used whenever the specified Digits To Interpret provide access to a feature if dialing stops (4 second timing) or, if dialing continues. The Digits To Interpret less any Digits To Be Deleted will be re-interpreted in the Local Digit Interpreter Table (normally along with additional digits). For example, if Digits 23 are specified as a COMB Call Type with Feature Type SC2 and no digits deleted in the PDIT entry, the LDIT form must contain at least one entry with its initial Digits equal to 23. LDIT will normally have ten such entries, one for each 3-digit code starting with 23. If entered, TYPE OF CI CALL must be "NONCI".
EMER	911 Emergency Service Bureau.
FEATURE	Used for PDIT entries defining Access Codes for features such as Speed Calling, Call Forward Variable Activate, etc. This Call Type is used in two instances. (1) Whenever the feature Access Code is absolutely unambiguous and no further dialed digits are expected. If additional digits are dialed, they will be ignored. (2) Whenever another PDIT entry is specified with starting digits which are the same as the Digits To Interpret in this entry (i.e., When digit interpretation is to be continued in PDIT). For example, if a Feature Call Type is specified for Digit 2 and another PDIT entry is specified with Digits 23, and if dialing stops after the Digit 2, the Feature Type treatment for the Digit 2 PDIT entry will be given. If a digit 3 is dialed following the 2, the Digits 23 PDIT entry will determine the Call Treatment. (The Digits 23 entry will normally be of a Call Type COMB in the USA.)
IDDDOPR	Used for calls to the IDDD Operator (dial 010).
LDIT	Used for an entry with the first digit(s) of a three or six digit code which will be interpreted in the LDIT or as a Country Access Code on the IDDD form (5307 Record). The Digits To Interpret specified on this entry, less any Digits To Be Deleted, will be reinterpreted along with any additional dialed digits in the Local Digit Interpreter Table.
NORMAL	Advanced Services Platform. Used only for ASP triggers (see Division 2, Section 1AP).
OPER	Used for the operator Access Code (e.g. dial 0).
OPRECAL	Used for the operator recall code (dial 110). Operator Recall is used on 0+ calls to recall the operator

	in order to obtain billing information or to place another call. The operator recall code may only be used by customers with the Three-Way Calling Feature. A customer without Three-Way Calling simply flashes the switchhook and the operator is recalled. A customer with Three-Way Calling flashes the switchhook and then dials the operator recall code, 110.
PSDONE	Indicates a Packet Switching Call which does not need any further digit analysis to determine its destination. PSDONE should be entered if routing can be determined by the RPOA (Recognized Private Operating Agency) or by the first 3 digits of the called number. The TYPE OF CI CALL determines if the call is intraLATA or interLATA.

Data Rules:

Refer to Figure 1 for dependencies between this field and other fields.

When CALL TYPE is entered, PDIT must be entered and must be greater than 0.

CICUT - When CALL TYPE is "CICUT":

and TRIG NBR is entered, NATURE OF NBR must not be entered.

TYPE OF CI CALL must be "CICUT" and PREFIX must be "NONE".

CODE INDEX must be entered and must be greater than 0.

COMB - When CALL TYPE is "COMB":

PREFIX must be entered.

DIGITS TO BE DELETED must be entered.

DESEP must be 0 or 63.

FEATURE must be entered.

ACTION must be entered.

TYPE OF CI CALL must be "NONCI".

and ACTION is not "AD1USE" or "AD2USE", DIGITS TO INTERPRET must not be "10X".

EMER - When CALL TYPE is "EMER":

- TYPE OF CI CALL must be "INTRA".
- CODE INDEX must be entered.
- TRIG NBR must be entered.
- ACTION must not be entered.
- FEATURE must not be entered.
- PREFIX must be "NONE".
- TRIG NBR must be entered.

- POLYGRID must be "N".
- DIGITS TO INTERPRET must not be "10X".

PSDONE - This call type is used when no further digit analysis is required. The call routes to the next switch. The following table shows the routing requirements:

CI Call Type	CODE INDEX and ROUTE INDEX	PSDNICRI 5921 Record	RTIDX 5303 Record	TKGRP 5202 Record
PSCAR	Not Applicable	Required	From PSDNICRI 5921 Record	From RTIDX 5303 Record
PSNCI	Required	Not Applicable	From PDIT 5300-2 Record	From RTIDX 5303 Record

When CALL TYPE is PSDONE:

PREFIX must be "NONE".

DESEP must be 0 or not entered.

TYPE OF CI CALLS must be "PSNCI" or "PSCAR".

and TYPE OF CI CALLS is "PSNCI", ROUTE INDEX must be entered and CODE INDEX must be greater than 0.

and TYPE OF CI CALLS is "PSCAR", ROUTE INDEX and CODE INDEX must not be entered.

IDDDOPER - When CALL TYPE is "IDDDOPER":

NATURE OF NBR must be "IDOP" or not entered.

CODE INDEX must be entered and must be greater than 0.

DIGITS TO INTERPRET must not be "10X".

TYPE OF CI CALL must be "NONCI".

ASP OFC on the OFCOPT form is "SSP", and CALL TYPE is "IDDDOPR", NATURE OF NBR must be "IDDD" or not entered.

LDIT - When CALL TYPE is "LDIT":

TRIG NBR must not be entered.

TYPE OF CI CALL must not be entered.

PREFIX must be entered.

DIGITS TO BE DELETED must be entered.

DESEP must be 0 or not entered.

CODE INDEX must not be entered.

ROUTE INDEX must not be entered.

and TRIG NBR is entered or ESC CODE is "Y", PREFIX must be "0+".

NORMAL - When CALL TYPE is "NORMAL":

- TYPE OF CI CALL must be "NONCI".
- CODE INDEX must be entered and must be greater than 0.
- DIGITS TO INTERPRET must not be "10X".
- TRIG NBR must be entered.
- DESEP must not be entered.
- PREFIX must be "NONE".
- POLYGRID must be "N".

OPER - When CALL TYPE is "OPER":

- and TYPE OF CI CALL is "INTER", NATURE OF NBR must be "ICOP" or not entered.
- and TYPE OF CI CALL is "INTRA", NATURE OF NBR must be "BCOP" or not entered.
- and POLYGRID is "Y", TYPE OF CI CALL must be "NONCI".
- and POLYGRID is "N", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".
- ASP OFC on the OFCOPT form is "SSP", and TYPE OF CI CALL on this form is "INTRA", NATURE OF NUMBER must be "BCOP" or not entered.
- PREFIX must be "NONE" or "0+".
- TYPE OF CI CALL must not be "CICUT".
- FEATURE must not be entered.
- ACTION must not be entered.
- CODE INDEX must be entered and must be greater than 0.
- ROUTE INDEX must be entered.
- DIGITS TO BE DELETED must not be "10X".

2.5 TYPE OF CI CALL

Description: This field is used to define the type of CI (Carrier Interconnect).

Valid TYPE OF CI CALL Entries

Entry	Definition
CICUT	Used for calls dialed FGD CAC + #. These calls are cut through to the carrier specified from the CAC.
INTER	Used for calls destined for outside the LATA. These calls must be routed via an InterLATA Carrier.
INTRA	Used for calls destined for within the LATA. These calls are handled by the LEC (Local Exchange Company).
NONCI	Used for calls for which carrier selection is irrelevant.
PSCAR	For PS (Packet Switched) calls, indicates that an IC (Interexchange Carrier) is required. If the DNIC of the IC is given in the RPOA (Recognized Private Operating Agency) selection field, that DNIC is used to route the call. If the DNIC is not given in the RPOA, then the preselected IC is used, given by the IECP DNIC field on the DSLUSR form (5908 Record). The route index is assigned to the DNIC on the PSDNICRI form (5921 Record), therefore the ROUTE INDEX and CODE INDEX must not be entered on this form. The preselected (default) IC is selected at the time of the service order. If the DNIC is not given in the RPOA or entered in the IECP DNIC field, then the PS call is cleared.
PSNCI	For packet switched calls, indicates a carrier interconnect does not apply, therefore a ROUTE INDEX and a CODE INDEX must be specified on this form.
TOLL	Intra-LATA toll. A Intra-LATA toll call within the LATA. When the TYPE OF CI CALL field is set to "TOLL" a SFSYS form must exist with SFID 149 set to "Y".

Data Rules:

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

Packet Switching TYPE OF CI CALLs, "PSCAR" and "PSNCI", cannot be mixed with non-Packet Switching TYPE OF CI CALLs within a single DAS.

2.6 ACTION

Description: Enter the action to be taken when the DIGITS TO INTERPRET have been dialed. This field only applies when CALL TYPE is "COMB" or "FEATURE". For other CALL TYPEs, leave it blank.

Valid ACTION Entries	
Entry	Definition
AAOFF	Auto Answer Off via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
AAON	Auto Answer On via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
ACBCANC	Cancel auto-callback camp-on.
ACBUSE	Use auto-callback to camp-on to busy line.
ACCANC	LASS Automatic Callback deactivation. This dialed code allows the user to deactivate the AC (Automatic Callback) feature. The user goes off-hook, enters the dialed code, and receives a cancellation announcement.
ACCTACT	Activate account code feature.
ACCTDCT	Deactivate account code feature.
ACCTUSE	Account code use code dialed.
ACDXFER	Transfer call to ACD, followed by ACD DN for the Transfer to ACD from ARU Special Feature. For more information see Division 2 Section 4A71.
ACSRCAN	This ACTION currently unavailable and goes to reorder. Cancel ACSR move.
ACSROFF	Allows a member of an ACSR group with GRP CNTRL set to "Y" on the ACSRF form (5959-1 Record) to deactivate ACSR for the entire group.
ACSRON	Allows a member of an ACSR group with GRP CNTRL set to "Y" on the ACSRF form to activate ACSR for the entire group.
ACSRUSE	Allows an ACSR user to invoke an ACSR move.
ACSRVfy	Allows an ACSR user to verify the status of the ACSR move on the queue.
ACTCPNBN	Activate the CPN/BN feature.
ACTGMB	Software Release: 5E15 and later.

	Activate Group Make Busy
ACTMMB	Software Release: 5E15 and later. Activate Member Make Busy
ACTOFF	Set ACT in IDP off.
ACTON	Set ACT in IDP on.
ACTSTH	Software Release: 5E15 and later. Activate Stop Hunt
ACUSE	LASS Automatic Callback activation. This dialed code allows the user to activate the AC (Automatic Callback) feature. The user goes off-hook, enters the dialed code, and receives an appropriate response.
AD1USE	Use 1 digit abbreviated dial. (See Note 1)
AD1CH	Change 1 digit abbreviated dial list. (See Note 1)
AD2CH	Change 2 digit abbreviated dial list. (See Note 1)
AD2USE	Use 2 digit abbreviated dial. (See Note 1)
AIUSE	Agent Intercom via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
ALTACT	Activate alternate parameter set.
ANSBACK	National ISDN Call Park Answer Back. For more information, see Division 2, Section 4A258.
AQCUSE	ACD Queue Calling via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
ARCANC	LASS Automatic Recall cancellation.
ARSCP	Change ARS pattern group number.
ARSDCT	Deactivate ARS feature for one call.
ARS1USE	Use Automatic Route Selection with Private Network Dialing Plan 1.
ARS2USE	Use Automatic Route Selection with Private Network Dialing Plan 2.
ARSUSE	Use Automatic Route Selection with the Office Dialing Plan.
ARUSE	LASS Automatic Recall activation. This dialed code allows the user to activate the AR (Automatic Recall) feature. The user goes off-hook, enters the dialed code, and receives an appropriate response.
ASITOG	ASI (Advanced Service Interface) Proxy implicit mode toggle. A dialed code defined in the office as a CORC (Customer Originated Recent Change) allows the user to activate or deactivate the ASI Proxy implicit mode feature. The system response is a stutter dial tone. See Division 2, Section 4A93 for more information about ASI.
ASIUSE	ASI Proxy explicit mode activation. This dialed code allows the user to activate the ASI Proxy feature in the explicit mode. The user goes off-hook, enters the dialed code, and receives an immediate connection to an ASI trunk (no dial or confirmation tone).
ASPDNC	No further digits are collected and an immediate query is sent to the SCP. A response is received and the call is routed.
ASPNORM	Digit collection and digit analysis on the collected digits are performed. A query is then launched to the SCP. A response is received and the call is routed.
ASPVAR	Digits are collected until interdigit timing expires. A query is launched and a response is received from the SCP. The call is routed.
ASPUSE	Access the ASP (Advanced Services Platform; previously PVN, Private Virtual Network) default dialing plan. The ASP default dialing plan is part of the ODP and is specified via the ASP DAS field on the OFCOPT form (5509 Record). This action will result in an ASP origination only if the line or trunk is allowed to originate ASP calls, which is specified by setting ASP ALW to "Y" on the LINE (5109 Record), MLHLN (5111 Record), DSLUSR (5908 Record), SHTN (5902 Record), or TKGRP (5202 Record) form.
ATACTMWI	Activate Message Waiting Indicator by attendant. This dialed code is used by an MSC (Message Service Center) attendant to activate the MWI (Message Waiting Indicator) at the user's station set. The attendant enters the dialed code, receives stutter dial tone, and then dials the number of the telephone the MWI is to be activated on.
ATDCTMWI	Deactivate Message Waiting Indicator by attendant. This dialed code works similarly to the "ATACTMWI" action. The attendant can enter the dialed code, receive stutter dial tone, and then dial the number of the telephone the MWI is to be deactivated on.
ATFACT	ISDN attendant activate ACVT (Attendant Control of Voice Terminals) feature for individual DN.
ATFDCT	ISDN attendant deactivate ACVT feature for individual DN.
ATGACT	ISDN attendant activate ACVT feature for group of DNs. The ACVT feature assigned must have an associated restriction group defined. A DN can only activate the ACVT feature for the group to which it belongs.

ATGDC	ISDN attendant deactivate ACVT feature for group of DNs. The ACVT feature assigned must have an associated restriction group defined. A DN can only deactivate the ACVT feature for a group to which it belongs.
ATHACT	This ACTION is used to activate the Authorization Code feature. This ACTION will automatically set the A field to "Y" on the associated line or trunk assignment form, e.g., LINEFA, TRUNKFA, or TKGRPFA forms.
ATHDCT	This ACTION is used to deactivate the Authorization Code feature. This ACTION will automatically set the A field to "N" on the associated line or trunk assignment form, e.g., LINEFA, TRUNKFA, or TKGRPFA forms.
ATHINS	This ACTION is used to put a line or trunk "In Service" by automatically setting the ATH FIRST field to "N" on the associated ATHLPA, ATHMPA, or ATHTPA form. When the ATH FIRST field is set to "N", an Authorization Use Code and the Authorization Code is not needed before the TN is entered.
ATHNREQ	This ACTION is used to automatically set the AC field to "N" on the associated line or trunk assignment form, e.g., LINEFA, TKGRPFA, or TRUNKFA forms. When the AC field has a value of "N", an Authorization Use Code and an Authorization Code is not needed before a feature, e.g., Call Forwarding, can be used. The features must be specified on the ATHFCOS form and they must be dial code activated.
ATHOOS	This ACTION is used to put a line or trunk "Out Of Service" by automatically setting the ATH FIRST field to "Y" on the associated ATHLPA, ATHMPA, or ATHTPA form. When the ATH FIRST field is set to "Y", an Authorization Use Code and the Authorization Code is needed before the TN is entered.
ATHREQ	This ACTION is used to automatically set the AC field to "Y" on the associated line or trunk assignment form. When the AC field has a value of "Y", an Authorization Use Code and an Authorization Code is needed before a feature, e.g., Call Forwarding, can be used. The features must be specified on the ATHFCOS form and they must be Access Code activated.
ATHUSE	This ACTION is used as the Authorization Use Code for the Authorization Code Feature defined on the ATHFD form (5619-1 Record).
AUCUSE	Auto Call Set Up used with Message Service and Electronic Directory Service features.
BBTLUSE	This ACTION is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BSYACT	Software Release: 5E16(2) and later. Activates all Call Forwarding Busy feature's prestored DNs.
BSYDCT	Software Release: 5E16(2) and later. Deactivates all Call Forwarding Busy feature's prestored DNs.
BTLUSE	This ACTION is used for nonbilled BRITL.
CCL	Code calling for call pickup.
CFDATCH	Change Call Forward Don't Answer timing.
CFDCT	Deactivate all Call Forwarding features with prestored DNs.
CFDNCH	Change Forward-to DN.
CFVACT	Activate all call forwarding variable features.
CFVDCT	Deactivate all call forwarding variable features.
CLOFF	Closed Off via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
CLON	Closed On via dial code. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
CLWCUSE	Cancel Leave Word Calling. Used with the Message Service feature.
CNDACT	ICLID (Individual Calling Line Identification) Calling Number Delivery activation. This dialed code allows the user to activate the Calling Number Delivery feature which allows the called party to receive data on an incoming call. The user goes off-hook, enters the dialed code, and receives a confirmation tone.
CNDDCT	ICLID (Individual Calling Line Identification) Calling Number Delivery deactivation. This dialed code allows the user to deactivate the Calling Number Delivery feature which allows the called party to receive data on an incoming call. The user goes off-hook, enters the dialed code, and receives a confirmation tone.
CNPUSE	Toggle for NAME privacy per-call (for DISP). This action is used in the Analog Calling Name Delivery Feature. See Division 2 Section 4A40 for more information.
COTUSE	Customer Originated Trace activation. This dialed code allows the user to activate the Customer Originated Trace feature. The user goes off-hook, enters the dialed code, and receives an appropriate response.

CPQ1	Use call pickup feature with queue 1.
CPQ2	Use call pickup feature with queue 2.
CPQ3	Use call pickup feature with queue 3.
CPQ4	Use Call pickup feature with queue 4.
CSECT	Software Release: 5E14 and later. Activate call screening.
CSDCT	Software Release: 5E14 and later. Deactivate call screening.
CSTOG	Software Release: 5E16(2) and later. Used to toggle between activating and deactivating the FCCS (Forwarded Call - Call Screening) Enhancement feature. For more information, see Division 2, Section 4A592.
CTT	Used for both Analog and ISDN Call Through Test. Allows the attendant to make a test call from an Analog line that has been assigned an attendant class of service. The test call will verify the operation of the selected trunk member and the switch translations.
CWDLU	Use a dial call waiting feature. For ISDN Attendant Consoles, this action is used to assign the camp-on dialed code.
CWOACT	Activate all call waiting originating features.
CWDACT	Deactivate all call waiting originating features.
CWTA CT	Activate all call waiting terminating features.
CWTDCT	Deactivate all call waiting terminating features.
CWXCH	Change call waiting tone repetition interval.
DAACT	Software Release: 5E16(2) and later. Activates all Call Forwarding Don't Answer feature's prestored DNs.
DADCT	Software Release: 5E16(2) and later. Deactivates all Call Forwarding Don't Answer feature's prestored DNs.
DALACT	Activate alternate parameter set for CSD.
DARSCP	Change the active ARS pattern group number for CSD.
DBDACT	Activate all busy/idle data call forwarding features.
DBDDCT	Deactivate all busy/idle data call forwarding features.
DCDTVM	Software Release: 5E16(2) and later. DTVM Direct Connect.
DCTCPNBN	Activate the CPN/BN feature via dialed code.
DCTGMB	Software Release: 5E15 and later. Deactivate Group Make Busy
DCTMMB	Software Release: 5E15 and later. Deactivate Member Make Busy
DCTMWI	Deactivate Message Waiting Indicator. Used with the Message Service feature. The MWI (Message Waiting Indicator) can be deactivated by entering this dialed code. If an MWI lamp is provided with the station set, this action may be associated with the lamp and can be used to deactivate the lamp.
DCTSTH	Deactivate Stop Hunt
DFRLALT	Activate the CSD alternate FRL.
DGPACT	Activate the ARS CSD group.
DGPDCT	Deactivate the ARS CSD group.
DMAINACT	Activate main parameter set for CSD.
DNPUSE	Activate per call TN privacy use.
DPN	Use directed pickup without barge-in.
DPU	Use directed pickup with barge-in.
DRPCH	Change ringing pattern.
DTVMCF	Software Release: 5E16(2) and later. DTVM Call Forward.
EAVMUSE	Software Release: 5E15 and later. Allows Easy Access to Voice Mail.
EMER	Emergency.
EMUSE	Emergency via dial code or feature button. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
FRLALT	Activate the Alternate FRL Table.
FRLDMAIN	Activate the CSD main FRL.
FRLMAIN	Activate the Main FRL Table.
FTACT	Activate BRCS feature. (See Note 1)
FTDCT	Deactivate BRCS feature. (See Note 1)
GPACT	Activate IDP, ARS, or ACVT.
GPDCT	Deactivate IDP, ARS, or ACVT.

GRPCARCH	Change group carrier in IDP.
HIDHOLD	This action allows a customer to activate the Dialable Hold feature which is a subset of the Home Intercom feature.
HIRINGA	This action is used to apply ringing pattern A for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 2 seconds on and 4 seconds off (normal ringing pattern).
HIRINGB	This action is used to apply ringing pattern B for the Intercom Code Dialing and Selective Intercom Dialing features. Provides repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on, followed by 4 seconds off.
HIRINGC	This action is used to apply ringing pattern C for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on, followed by 4 seconds off.
HIRINGG	This action is used to apply ringing pattern G for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 0.3 seconds on, 0.2 seconds off, 1 second on 0.2 seconds off, 1 second on 0.2 seconds 0.3 seconds on, followed by 4 seconds off.
IBSYVIFY	ISDN Busy Verify action. This action is used with the ISDN Attendant Console Busy Verification of Directory Numbers and Trunks. The FEATURE associated with this attendant action must be a call pickup originating feature (/CPUVO or equivalent constructed feature). To implement the barge-in feature, the terminating line/trunk must have a call pickup terminating feature (/CPUIVT for digital, /CPUVT for analog, or equivalent constructed feature).
IDNACT	Activate/deactivate ISDN ACVT (Attendant Control of Voice Terminals) restrictions for an individual terminal (line).
IEMEROVR	ISDN Attendant Emergency Override action. The FEATURE associated with this attendant action must be a call pickup originating feature (/CPUEO or equivalent constructed feature). The lines to be overridden must have a call pickup terminating feature (/CPUIEOT for digital, /CPUEOT for analog, or equivalent constructed feature). The attendant will be able to use the dialed code to override terminating restrictions such as Call Forwarding, Series Completion or members of a multiline hunt group.
IGACT	Activate/deactivate ISDN ACVT (Attendant Control of Voice Terminals) restrictions for a group of lines.
INSUSE	Inspect use.
LDNDCT	Deactivate all LDNs for MUPH or ISAT groups with CF variable feature at once.
LSFNOSYM	This action is used by the LSF (LASS Selective Features) to access the SLE (Screen List Editing) session. This ACTION will prompt the user via announcements for digits rather than an asterisk or a pound sign during the SLE session.
LSFSYM	This action is used by the LSF (LASS Selective Features) to access the SLE (Screen List Editing) session. This ACTION will prompt the user via announcements for an asterisk or a pound sign rather than digits during the SLE session.
LSP	Loudspeaker paging for call pickup. The paged party may enter a dialed code and be connected to the calling party.
LWCUSE	Leave Word Calling. The dialed code associated with this action allows a message from the calling party to be left for the called party.
MAINACT	Activate Main parameter set.
MDRACT	MDR Feature activation code.
MDRDCT	MDR Feature deactivation code.
MDROFF	MDR Group Status off.
MDRON	MDR Group Status on.
MEOFF	Dialed Code Request - Manual Exclusion Off.
MEON	Dialed Code Request - Manual Exclusion On.
MWITD	ISDN Terminal Dialed Code.
MWSOH	Start multiway feature off hook.
MWSPL	Split last added party from multiway call.
NNPRV	Force per-call NAME and TN private (for DISP). This action is used in the Analog Calling Name Delivery Feature. See Division 2 Section 4A40 for more information.
NNPUB	Force per-call NAME and TN public (for DISP). This action is used in the Analog Calling Name Delivery Feature. See Division 2 Section 4A40 for more information.
PFUSE	Use private facilities.
PODUSE	Print On Demand. Used with the Message Service feature.

RBQCAN	Ringback queuing cancel.
RGQVfy	Ringback queuing verify.
SAUSE	Service Assist via dial code or feature button. For more information on ACD/BRCS secured feature, see Division 2, Section 4A121.
SDNUSE	Invoke a Software Defined Network call.
SEL1XFER	Transfer to Selective Transfer TN 1 from E911 PSAP (Public Safety Answering Point).
SEL2XFER	Transfer to Selective Transfer TN 2 from E911 PSAP.
SEL3XFER	Transfer to Selective Transfer TN 3 from E911 PSAP.
SEL4XFER	Transfer to Selective Transfer TN 4 from E911 PSAP.
SEL5XFER	Transfer to Selective Transfer TN 5 from E911 PSAP.
SEL6XFER	Transfer to Selective Transfer TN 6 from E911 PSAP.
SRGACT	Software Release: 5E16(2) and later. Activate Simultaneous Ringing.
SRGDCT	Software Release: 5E16(2) and later. Deactivate Simultaneous Ringing.
SRGNOSYM	Software Release: 5E16(2) and later. Simultaneous Ringing SLE No Symbols.
SRGSYM	Software Release: 5E16(2) and later. Simultaneous Ringing SLE Symbols.
TD1PAD	Add 1 parameter code.
TDACT	Activate a Time-Of-Day feature.
TDADZP	Add zero parameter code.
TDATCH	Change Time-Of-Day Action Time.
TDDALL	Delete all code lists.
TDDCT	Deactivate a Time-Of-Day feature.
TDDEL1P	Delete 1 parameter code list.
TDOWCH	Change One Week Time-Of-Day Schedule.
TDZPDEL	Delete zero parameter code list.
TGACT	Activate a terminal group feature.
TGDCT	Deactivate a terminal group feature.
UCRACT	Activate UCR (Unidentified Call Rejection).
UCRDCT	Deactivate UCR (Unidentified Call Rejection).
US3WC	Activate Usage Sensitive Three-Way Calling.

NOTE: 1: These actions are required in all line offices and have fixed digit codes. For further information, see the BRCS FEATURES section in Division 2 of this guide.

ACUSE, ARUSE: After subscribers dial an "ACUSE" (or "ARUSE") code, they may receive the following responses:

- Audible alerting. The called party is alerted immediately because the called station is found to be idle.
- Short-term denial. Reorder tone is given to the user to indicate that network resources are temporarily exhausted or the called party has a feature active that causes the Automatic Callback (or Automatic Recall) attempt to be denied, e.g., Call Forwarding Variable. A subsequent attempt by the user to activate the feature may succeed.
- Long-term denial. An announcement is returned indicating that the Automatic Callback (or Automatic Recall) feature is not allowed to the user.
- Confirmation. An announcement is returned indicating that the Automatic Callback (or Automatic Recall) feature has been activated.

COTUSE: After subscribers dial a "COTUSE" code, they may receive the following responses:

- Successful activation. An announcement is returned indicating a successful activation of the COT request and provides information on any further action the user should take.
- Trace not available. An announcement is returned indicating that the call has already been traced or

invalid data about the call is stored in the history block, e.g., originating and terminating switches are not connected by CCS7 trunks.

- Buffer full. An announcement is returned indicating that the COT message buffer is full and the user should attempt the trace again later.
- Short-term denial. Reorder tone is given to the user to indicate that network resources are exhausted. A subsequent attempt by the user to activate the feature may succeed.
- Feature denial. Reorder tone is given to the user to indicate that the Customer Originated Trace feature is not available to the user.

DNPUSE: The "DNPUSE" action is used for per-call TN privacy; the dialed code can be used in two ways.

- The calling party subscribes to all-call privacy which allows the calling party to prevent delivery of their TN to the called party for all calls (PRIVACY field on the LINE, MLHLN, or DSLUSR form is "Y"). The calling party can deactivate all-call privacy on a per-call basis (TN PRIVACY field on the DISPFD form is "Y"), allowing the calling TN to be displayed to the called party. To deactivate all-call privacy on a per-call basis, the user goes off-hook, enters the dialed code, receives a confirmation tone, receives dial tone, and then dials the TN.
- The terminal may not subscribe to all-call privacy which allows the TN of the calling party to be delivered to the called party for all calls (PRIVACY field on the LINE, MLHLN, or DSLUSR form is "N"). The calling party can activate per-call privacy on a per-call basis (TN PRIVACY field on the DISPFD form is "Y"), not allowing the calling TN to be displayed to the called party. To activate per-call privacy on a per-call basis, the user goes off-hook, enters a dialed code, receives a confirmation tone, receives dial tone and, then dials the telephone number.

Data Rules:

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

When ACTION is "ATACTMWI", "ATDCTMWI", "AUCUSE", "BTLUSE", "AAON", "AAOFF", "AIUSE", "AQCUSE", "CLON", "CLOFF", "EMUSE", "SAUSE", "BBTLUSE", "MEOFF", "MEON", "SDNUSE", "UCRACT", or "UCRDCT" then FEATURE must be the NULL FEATURE (/).

Actions "CNPUSE", "NNPRV", and "NNPUB", must be used with the feature defined on the DISPFD form and have TN PRIVACY set to "Y" on the DISPFD form for the feature being used. The wildcard feature /DI* may also be used with TN PRIVACY set to "N" on the DISPFD form.

For 5E15 and later:

When ACTION is "ACTGMB", "ACTMMB", "ACTSTH", "DCTGMB", "DCTMMB", or "DCTSTH", CALL TYPE must be "FEATURE".

When ACTION is "ACTGMB", "ACTMMB", "ACTSTH", "DCTGMB", "DCTMMB", or "DCTSTH", FEATURE must be "/".

ACDXFER - When ACTION is "ACDXFER" the feature must be null feature, (/).

ACTCPNBM - When ACTION is "ACTCPNBN", the corresponding FEATURE entry must appear on a

CPNBNFD form (5982 Record) with ACT set to "CODE".

AD1USE - An ACTION of "AD1USE" requires DIGITS TO INTERPRET to be one digit or one digit preceded by carrier prefix (10X).

AD2USE - An ACTION of "AD2USE" requires DIGITS TO INTERPRET to be two digits or digits preceded by carrier prefix (10X).

ASPDNC, ASPNORM, ASPVAR - When ACTION is "ASPDNC", "ASPNORM", or "ASPVAR",

- CALL TYPE must be "FEATURE",
- TRIG NBR must be entered, and
- ASP OFC on the OFCOPT form must be "SSP".
- For 5E15 and later, FEATURE must be set to "/*". In 5E15 the ACTION field was modified to allow the values of ASPDNC, ASPNORM, and ASPVAR when FEATURE is set to "/" in order to support the ASP Unrestricted FCD Code feature. For more information, see Division 2, Section 4A572.
- For 5E15 and later, when, FEATURE is "/" and ACTION is "ASPDNC", "ASPNORM", or "ASPVAR" the ACT field for SFID 572 on the SFSYS form must be "Y".
- For 5E15 and later, when the PDIT form ACTION field is set to "ASPDNC", "ASPNORM", or "ASPVAR" and FEATURE set to "/". This form must have TRIG NBR defined on the NSTRIG form where APPLICATION is "ASP" and AIN REL is "R0D1".

ASPUSE - When ACTION is "ASPUSE", ASP OFC on the OFCOPT form (5509 Record) must equal "BILLNAP", "NOBILLNAP", or "SSP".

ATFACT, ATFDCT, ATGACT, ATGDCT -

- If IDPDCA forms contain these ACTION entries or conflict resolution ACTION entries, they must be consistent with the corresponding FEATURE entry on the ACVTFD form.
- These BUTTON ACTIONS require a FEATURE name that is defined on the ACVTFD form.
- If these specific ACTION values are entered on the CFGGRP form, the combination of CONFIG GRP and ACTION must be unique.

BSYACT, BSYDCT, CFDATCH, CSTOG, DAACT, DADCT: - For 5E16(2) and later, ACTION can only be "BSYACT", "BSYDCT", "CFDATCH", "CSTOG", "DAACT", or "DADCT" when the ACT field for SFID 592 on the SFSYS form (5713-1 Record) has been set to "Y".

NOTE: The following actions can only be assigned to dial codes on the PDIT form (RC/V 9.2) when the ACT field for SFID 592 is set to "Y": "BSYACT", "BSYDCT", "CFDATCH", "CSTOG", "DAACT", or "DADCT" (when being assigned to dial codes, all five actions can only be associated with the /CF* feature). Also, the existing action "CFDATCH" can now be associated with the /CF* feature on the PDIT form (RC/V 9.2) when the ACT field for SFID 592 is set to "Y" (originally, "CFDATCH" could only be associated with non-wildcard CF features. When the ACT field for SFID 592 is set to "Y", the action can be associated with both the /CF* feature and the non-wildcard CF features.)

BTLUSE, BBTLUSE: - When "BTLUSE" or "BBTLUSE" is entered, then:

- CALL TYPE must be "FEATURE" for this ACTION.
- TYPE OF CI CALL must be "NONCI" for this ACTION.
- DIGITS TO INTERPRET must contain only the digits 0-9 and may begin with 10X.

When ACTION is "BBTLUSE", the DSL which is being tested, must have BRITL ALW set to "Y" on the corresponding DSLUSR form.

CSACT, CSDCT - When ACTION is "CSACT" or "CSDCT", FEATURE must be "/CF*".

DCTCPNBN - When ACTION is "DCTCPNBN", the corresponding FEATURE entry must appear on a CPNBNFD form (5982 Record) with DEACT set to "CODE".

EAVMUSE - When ACTION is "EAVMUSE", the corresponding FEATURE entry must appear on a MSFD form (5962-1 Record).

HIDHOLD - When ACTION is "HIDHOLD", the DIAL HOLD field must be "Y" on the associated HIFD form (5628 Record).

HIRINGA, HIRINGC, HIRINGG - When ACTION is "HIRINGA", "HIRINGC", or "HIRINGG", the SEL ICM DIAL field must be "Y" on the associated HIFD form (5628 Record).

When ACTION is "HIRINGB", the ICM CODE DIAL field must be "Y" and the SEL ICM DIAL field may be "Y" on the associated HIFD form.

IBSYVIFY - When ACTION is "IBSYVIFY", the associated call pickup originating feature must be defined on a PUOFD form (5605-1 Record). If the terminating line or trunk is assigned a call pickup terminating feature, that feature must be defined on a PUTFD form (5605-2 Record).

IEMEROVR - When ACTION is "IEMEROVR", the associated call pickup originating feature must be defined on a PUOFD form. The call pickup terminating feature assigned to the lines to be overridden must be defined on a PUTFD form.

SELnXFER - When ACTION is "SELnXFER", where n is 1 - 6, CALL TYPE must be "FEATURE" or "COMB"; and FEATURE must be "/*".

For 5E16(2) and later, when a PDIT form contains ACTION entries which are inconsistent with the corresponding FEATURE entry, either the FEATURE is not found on the appropriate Feature Definition FORM or the FORM level restrictions are not met. (Refer to the Prefix/Feature Digit Interpreter section for the valid combinations of ACTION and FEATURE and the corresponding restrictions).

2.7 FEATURE

Description: Enter the name of a feature or abbreviated dial list which is to be accessed or affected by this dialed code. The feature name entered may be a constructed or preconstructed feature.

The set of preconstructed features includes "wild-card" features which may be entered as valid features in dialing plans (either individualized or the office dialing plan) but may not be assigned to lines or trunks. These wild-card features' names should be entered into dialing plans whenever a dialed code is to affect a feature associated with the terminal (line or trunk) dialing the code rather than a feature specified in the dialing plan

itself. For example, if a dialed code's ACTION is 'AD1CH' (change the 1-digit Abbreviated Dial List) and it is desired that dialing the code allows the customer to change his AD list regardless of the specific ID feature containing the AD list, the ID wild-card feature name, /ID*, would be entered as the FEATURE. If, on the other hand, it is desired that access to the code would allow changes only to a specific ID's AD list, then the specific ID feature's name would be entered as the FEATURE. The specific feature definition form on which the feature is defined depends upon the value of the ACTION field entry as shown in Figure 3.

Those ACTIONS where the FEATURE TYPE is indicated as "Any non-wild-card feature name" require a specific FEATURE name and the wild-card feature may not be entered here.

For those actions for which the FEATURE TYPE is "Any feature name", either the wild-card feature name or a specific feature name may be entered. It is recommended that the wild-card feature always be used; no cases are presently envisioned in which a non-wild-card feature would be appropriate.

For the cases where FEATURE TYPE is "Any wild-card feature name", only a wild-card feature name may be entered.

Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be defined on one of the BRCS feature definition forms.

2.8 CODE INDEX

Description: This field is used to define the Code Index.

Valid Entries: 1 - 4095

Data Rules:

Valid Entries are 1 for CALL TYPE "OPER", 2 for CALL TYPE "IDDDOPR", and 3 - 4095 for CALL TYPE "CICUT".

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

All combinations of CODE INDEX, PREFIX from the PDIT form, and SCREENING INDEX from the LCC form (5306 Record) must have corresponding RAR form (5301 Record) entries for CDI, PFX, and SCR.

When a CODE INDEX is entered, a ROUTE INDEX entered, and POLYGRID is "N", then a corresponding RAR form must exist where the CDI entry matches the CODE INDEX on this form.

CODE INDEX on this form or MLDIT on the INDIT form (5309 Record), CODE INDEX or CDI on an RDIT or LDIT form, or WITH ANI or WITHOUT ANI on an AISCLS form must equal INC CDI on an INFLDEST form (5448 Record).

2.9 ROUTE INDEX

Description: Enter the Regular Route Index.

ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries: 1 - 16382

Data Rules:

Refer to Figure 1 for dependencies between the CALL TYPE field and this field. If the resultant call is a carrier

call, the Route Index will normally be overridden by a Carrier Specific Route Index on the ICF or CDIM form. The entry here is provided for consistency in the data base.

2.10 POLYGRID?

Description: If this is a DSN (Defense Switched Network) office, should polygrid routing be used? "Y" should be entered for DSN offices to indicate polygrid routing. "N" should be entered for non-DSN offices.

Software Release: 5E3 and later

Required Field.

Valid Entries: Y, N

Default Value: N

Data Rules:

This field is used only in DSN offices; the DSN OPTION field must be "Y" on the OFCOPT form.

POLYGRID may be "Y" only when CALL TYPE is "OPER", "IDDDOPR", "OPRECAL", or "CICUT", otherwise POLYGRID must be "N".

When POLYGRID is "Y", TYPE OF CI CALL must be "NONCI".

2.11 DESEP

Description: This field is used to define the Destination Separations Index for Call Types "CICUT", "OPER", and "IDDDOPR". It is prohibited for all other Call Types.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the TRFSEP form (5308 Record).

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.12 PREFIX

Description: This field is used to define which prefix entry on a RAR form will be used to screen the call.

Valid Entries: 0, 1, or NONE

Data Rules:

PREFIX is a required entry only for Call Types "PSDONE", "LDIT", "COMB", and "CICUT". If CALL TYPE is "CICUT", "PSDONE" or "QUERY" then PREFIX must be "NONE". It is allowed, but only used by the AIN pre-query screening feature to determine if pre-query screening needs to be done, for Call Types "OPER" and "IDDDOPR". It is prohibited for all other Call Types.

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

2.13 DIGITS TO BE DELETED

Description: This field is used to define the Digits to be Deleted. Enter the number of digits to delete from the

dialled code prior to the local digit interpretation. The FGD CAC for carrier calls, if any, does not get interpreted in LDIT, so digit deletion does not include these digits.

Valid Entries: 1 - 7

Valid DIGITS TO BE DELETED Entries	
Entry	Definition
0	for 01+ IDDD Operator Assisted Calls and for 011+ IDDD Station-To-Station Calls.
1	

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

2.14 NATURE OF NBR

Description: Enter the nature of the number for ASP query formulation.

Software Release: 5E9 and later

Valid Entries:

Valid NATURE OF NBR Entries	
Entry	Definition
IDDD or IDD	International
NATL or N	Domestic
PRIV or P	Private
ICOP or IC	IEC Operator
BCOP or B	BOC Operator
IDOP or IDO	IDDD Operator

Data Rules:

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

When CALL TYPE is "LDIT", NATURE OF NBR cannot be entered.

2.15 TRIG NBR

Description: Enter the Network Services Trigger Number.

Software Release: 5E8 and later

Valid Entries: 1 - 255

Data Rules:

Refer to Figure 1 for dependencies between the CALL TYPE field and this field.

TRIG NBR must equal TRIG NBR on an NSTRIG form (5324 Record).

If APPLICATION on the corresponding NSTRIG form equals "ASP" and SERV KEY equals "CDPN", ALT GBL TITLE must be known on NSTRIG.

If APPLICATION on the corresponding NSTRIG form is "E911", TYPE OF CI CALL must equal "INTRA".

2.16 PREF TRIG NBR

Description: Enter the Prefix Services Trigger Number. This field was added to support the AIN Operator Services Trigger feature. See Division 2, Section 4A584.

Software Release: 5E16(2) and later

Valid Entries:

For 5E16(2) and later: 1 - 255

Data Rules:

When PREF TRIG NBR is known, PREFIX must be "0+" or CALL TYPE must be "IDDDOPR" or "OPER".

2.17 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ESC CODE is "Y", CALL TYPE must be "EMER", "OPER", "IDDDOPR" or "OPRECAL".

2.18 DFLT RT

Description: The DFLT RT field is used to identify the type of default routing treatment to be used for the ASP Default Routing for 3/6/10-Digit Triggers (Phase 1) Special Feature. When the ASP Special Feature has been purchased, this field can be used to specify the type of default routing to occur when an ASP specific digit trigger query fails.

Software Release: 5E9(1) and later

Default: NONE

Valid Entries:

Valid DFLT RT Entries	
Entry	Definition
ANNC	Default route to announcement (or tone). The call will route to either a tone or announcement, depending on what is defined for the route.
DLDN	Default route to dialed DN. The call will route to the DN dialed (or the DN being routed to if the call came from a trunk).
NONE	No default routing. No special default routing will take place, and normal call treatment will send the call to reorder or NCA (No Circuits Available).

Data Rules:

ANNC:

When "ANNC" is entered for DFLT RT, then a FIXRT form must be defined with FIXED ROUTE TYPE set to "DFLTRT".

NONE:

When DFLT RT is not "NONE", TRIG NBR must be entered.

When the PDIT forms have a DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

For 5E16(2) and later:

When DFLT RT is not "NONE", TRIG NBR or PREF TRIG NBR must be entered.

When the PDIT forms have a DFLT RT entry other than "NONE", and a known value for PREF TRIG NBR, the corresponding TRIG NBR must be defined on a NSTRIG form. In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

When the PDIT forms has a known value for PREF TRIG NBR, the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1" and ASP OFC on the ASOPT form not set to "NONE".

When the PDIT forms have a DFLT RT entry other than "NONE" and TRIG NBR is known, the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

2.19 INH OBL

Description: Is the ASP originating busy line office trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers. For more information concerning this feature, see Division 2 Section 4A212.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When INH OBL is "Y", CALL TYPE must be "EMER", "IDDDOPR", "OPER" or PREFIX must be 0+, or 1+.

The SFID 212 ACT field on the SFSYS form (5713-1 Record) must be "Y" before "Y" can be entered in this field.

2.20 INH ONA

Description: Is the ASP originating no answer office trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers. For more information concerning this feature, see Division 2 Section 4A212.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When INH ONA is "Y", CALL TYPE must be "EMER", "IDDDOPR", "OPER" or PREFIX must be 0+, or 1+.

The SFID 212 ACT field on the SFSYS form (5713-1 Record) must be "Y" before "Y" can be entered in this field.

2.21 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be

processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later

Default: N

Valid Values: Y, N

2.22 DENY XFER

Description: This field is used to indicate if call transfers to a particular digit string should be denied.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

- When DENY XFER is "Y", CALL TYPE must not be "EMER".
- When DENY XFER is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y". "Y" being set on the SFSYS form indicates that the "Deny Transfer of Digit Screened Calls" feature has been purchased.

2.23 REMARK

Description: This field may contain any remarks deemed locally necessary.

Valid Entries: 1 - 16 characters

CALL TYPE	TYPE OF CI CALL	ACTION	FEATURE TYPE/NAME	CODE INDEX	ROUTE INDEX	PREFIX	DIGITS TO DELETED	TRIGGER	NATURE OF NBR	ESCODE
CICUT	CICUT	P	P	R	R	R	P	O	O	P
COMB	NONCI	R	R	P	P	R	R	O	O	P
FEATUR E	NONCI	R	R	P	P	P	P	O	O	P
IDDDOP R	NONCI	P	P	R	R	O	P	O	O	O
LDIT	P	P	P	P	P	R	R	P	P	P
NORMAL	INTRA or NONCI	O	O	R	O	R	O	R	O	P
OPER	INTER, INTRA or TOLL	P	P	R	R	R	P	P	O	O
OPRECA L	NONCI	P	P	P	P	P	P	O	O	O
PSDONE	PSNCI or PSCAR	P	P	*	*	R	O	O	O	P
QUERY	INTRA or NONCI	O	O	R	O	P	O	N/A	N/A	N/A
EMER	INTRA	P	P	R	O	R	O	R	O	O

P = Prohibited

R = Required

O = Optional

N/A = Not Applicable

* = Required when TYPE OF CI CALL is "PSNCI". Prohibited when TYPE OF CI CALL is "PSCAR".

First Software Releases in parentheses for non-original fields.

Figure 1 RELATIONSHIPS BETWEEN CALL TYPES AND OTHER FIELDS

DIGITS TO INTER-PRET	CALL TYPE	TYPE OF CI CALL	ACTION	FEATURE	CODE INDEX	PREFIX	DIGITS TO DELETE	NATURE OF NBR	TRIGGER NBR	ESCCODE	REMARKS
*0	OPRECALL	NONCI									OPERATOR RECALL
*72	FEATURE	NONCI	FTACT	/CFV							CFV
*73	FEATURE	NONCI	FTDCT	/CFV							ACTIVATE CFV
74	FEATURE	NONCI	AD1CH	/ID; /SC*							DEACTIVATE
											CHANGE 1-DIG SC (see Note below)
75	FEATURE	NONCI	AD2CH	/ID; /SC*							CHANGE 2-DIG SC (see Note below)
0	OPER	INTRA			0001						0 -
00	OPER	INTER			0001						OPERATOR CARRIER
010	IDDDOPR	NONCI			0002						OPERATOR IDDD
0110-0119	LDIT					1	00				OPERATOR IDDD STA-TO-STA
012-019	LDIT					0	00				OPERATOR IDDD OPR
02-09	LDIT					0	01				ASST OPERATOR
10X#	CICUT	CICUT				NONE					ASST CUT-THRU TO CARRIER
10X0	OPER	INTER			0001						OPERATOR CARRIER
10X0110-10X0119	LDIT					1	00				OPERATOR IDDD STA-TO-STA
10X012-10X019	LDIT					0	00				OPERATOR IDDD OPR
10X02-10X09	LDIT					0	01				ASST OPERATOR
10X12-10X19	LDIT					1	01				ASST TOLL
10X2	FEATURE	NONCI	AD1USE	/ID*; /SC*							STA-TO-STA SC1 (see Note below)
10X20-10	COMB	NONCI	AD2US	/ID*; /SC*		NONE	00				LDIT + SC2

X29		I	E							(see Note below)
10X3	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)
10X30-10 X39	COMB	NONC I	AD2US E	/ID*; /SC*		NONE	00			LDIT + SC2 (see Note below)
10X4	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)
10X40-10 X49	COMB	NONC I	AD2US E	/ID*; /SC*		NONE	00			LDIT + SC2 (see Note below)
10X5-10X 9	COMB	NONC I	AD1US E	/ID*; /SC*		NONE	00			LDIT + SC1 (see Note below)
110	OPRECA L	NONC I								
1172	FEATUR E	NONC I	FTACT	/CFV						ACTIVATE CFV
1173	FEATUR E	NONC I	FTDCT	/CFV						DEACTIVATE CFV
1174	FEATUR E	NONC I	AD1CH	/ID*; /SC*						CHANGE 1-DIG SC (see Note below)
1175	FEATUR E	NONC I	AD2CH	/ID*; /SC*						CHANGE 2-DIG SC (see Note below)
12-19	LDIT					1	01			TOLL STA-TO-STA
2	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)
20-29	COMB	NONC I	AD2US E	/ID*; /SC*		NONE	00			LDIT + SC2 (see Note below)
3	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)
30-39	COMB	NONC I	AD2US E	/ID*; /SC*		NONE	00			LDIT + SC2 (see Note below)
4	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)
40-49	COMB	NONC I	AD2US E	/ID*; /SC*		NONE	00			LDIT + SC2 (see Note below)
5-6	COMB	NONC I	AD1US E	/ID*; /SC*		NONE	00			LDIT + SC1 (see Note below)
7	FEATUR E	NONC I	AD1US E	/ID*; /SC*						SC1 (see Note below)

70-71	LDIT					NONE	00				LDIT
72	COMB	NONC 	FTACT	/CFV		NONE	00				LDIT + CFVACT
73	COMB	NONC 	FTDCT	/CFV		NONE	00				LDIT + CFVDEACT
74	COMB	NONC 	AD1CH	/ID*; /SC*		NONE	00				LDIT + SC1CH (see Note below)
75	COMB	NONC 	AD2CH	/ID*; /SC*		NONE	00				LDIT + SC2CH (see Note below)
76-79	LDIT					NONE	00				LDIT
8-9	COMB	NONC 	AD1USE	/ID*; /SC*		NONE	00				LDIT + SC1 (see Note below)

Figure 2 PDIT CODES BUILT BY ODA WITH REQUIRED ENTRIES

ACTION FORM	FEAT DEFN ALLOWED	WILDCARD ALLOWED	NON-WILDCARD FEATURE
AAOFF	N/A	N/A	must be the null feature (*)
AAON	N/A	N/A	must be the null feature (*)
ACBCANC	ACBFD	YES	None
ACBUSE	ACBFD	YES	None
ACCANC	LSACFD	YES	None
ACCTACT	ACCTFD	YES	ACT TYPE = "CODE"
ACCTDCT	ACCTFD	YES	DACT TYPE = "CODE"
ACCTUSE	ACCTFD	YES	None
ACDXFER	N/A	N/A	must be the null feature (*)
ACSRCAN	ACSRFD	YES	None
ACSROFF	ACSRFD	YES	GRP CNTRL = "Y"
ACSRON	ACSRFD	YES	GRP CNTRL = "Y"
ACSRUSE	ACSRFD	YES	None
ACSRVFY	ACSRFD	YES	None
ACTCPNBN	CPNBNFD	YES	ACT = "CODE"
ACTOFF	IDFD	YES	CUST ACT/DEACT ACT = "Y"
ACTON	IDFD	YES	CUST ACT/DEACT ACT = "Y"
ACUSE	LSACFD	YES	None
AD1CH	IDFD;SCFD	YES	AD 1 DIGIT CHANGE = "Y"
AD1USE	IDFD;SCFD	YES	AD 1 DIGIT = "Y"
AD2CH	IDFD;SCFD	YES	AD 2 DIGIT CHANGE = "Y"
AD2USE	IDFD;SCFD	YES	AD 2 DIGIT = "Y"
AIUSE	N/A	N/A	must be the null feature (*)
ALTACT	ACCTFD	YES	PARM ACT TYPE = "CODE"
ALTACT	ATHFD	YES	CHANGE FCOS = "Y"
ANSBACK	N/A	N/A	None
AQCUSE	N/A	N/A	must be the null feature (*)
ARCANC	LSARFD	YES	None
ARS1USE	ARSFD	YES	None
ARS2USE	ARSFD	YES	None
ARSCP	ARSFD	YES	CHANGE ACTIVE PATTERN GROUP = "Y"
ARSDCT	ARSFD	YES	DACT TYPE = "CODE"
ARSUSE	ARSFD	YES	None
ARUSE	LSARFD	YES	None
ASITOG	ASIFD	YES	IMP ACC = "Y"
ASIUSE	ASIFD	YES	EXP ACC = "Y"
ASPDNC	ASPF	YES	CONTROL = "ORIG"
ASPNORM	ASPF	YES	CONTROL = "ORIG"
ASPUSE	N/A	N/A	must be the null feature (*)
ASPVAR	ASPF	YES	CONTROL = "ORIG"

			For 5E15 and later, must be the null feature (/*)
ATACTMWI	N/A	N/A	must be the null feature (/*)
ATDCTMWI	N/A	N/A	must be the null feature (/*)
ATFACT	ACVTFD	YES	CONTROL = "ORIG"
ATFDCT	ACVTFD	YES	CONTROL = "ORIG"
ATGACT	ACVTFD	YES	CONTROL = "ORIG"
ATGDCT	ACVTFD	YES	CONTROL = "ORIG"
ATHACT	ATHFD	YES	ACT TYPE = "CODE"
ATHDCT	ATHFD	YES	DACT TYPE = "CODE"
ATHINS	ATHFD	YES	CHANGE ATH FIRST = "Y"
ATHNREQ	ATHFD	YES	None
ATHREQ	ATHFD	YES	None
ATHOOS	ATHFD	YES	CHANGE ATH FIRST = "Y"
ATHUSE	ATHFD	YES	None
AUCUSE	N/A	N/A	must be the null feature (/*)
BCTLUSE	N/A	N/A	must be the null feature (/*)
BTLUSE	N/A	N/A	must be the null feature (/*)
CCL	PUOFD	Not /PO*	INITIATE = "CDCAL"
CFDATCH	CFWFD	Not /CF*	CHANGE DON'T ANSWER TIMING = "Y"
CFDCT	CFWFD	/CF* only	FEATURE must be /CF*
CFDNCH	CFWFD	Not /CF*	CHANGE FWD TO DN = "Y"
CFVACT	CFWFD	/CF* only	FEATURE must be /CF*
CFVDCT	CFWFD	/CF* only	FEATURE must be /CF*
CLOFF	N/A	N/A	must be the null feature (/*)
CLON	N/A	N/A	must be the null feature (/*)
CLWCUSE	MSFD	YES	LW CALLING != "NONE"
CNDACT	LIDFD	YES	ACT TYPE = "CODE"
CNDDCT	LIDFD	YES	DEACT TYPE = "CODE"
CNPUSE	DISPFD	YES	TN PRIVACY = "Y" or must be /DI*
COTUSE	LSCOTFD	YES	None
CPQ1	PUOFD	YES	NUMBER OF PICKUP GROUPS = 1, 2, 3, or 4
CPQ2	PUOFD	YES	NUMBER OF PICKUP GROUPS = 2, 3, or 4
CPQ3	PUOFD	YES	NUMBER OF PICKUP GROUPS = 3 or 4
CPQ4	PUOFD	YES	NUMBER OF PICKUP GROUPS = 4
CSACT	CFWFD	/CF* only	FEATURE must be /CF*
CSDCT	CFWFD	/CF* only	FEATURE must be /CF*
CTT	PFAFD	/PF* only	FEATURE must be /PF*
CWDLU	CWTFD	YES	INVOACTION = "CODE"
CWOACT	CWTFD	/CW* only	FEATURE must be /CW*
CWODCT	CWTFD	/CW* only	FEATURE must be /CW*
CWTDCT	CWTFD	/CW* only	FEATURE must be /CW*
CWTDCT	CWTFD	/CW* only	FEATURE must be /CW*
CWXCH	CWTFD	Not /CW*	CHANGE CDPTY TONE INTERVAL = "Y"
DALACT	ATHFD	YES	CHANGE FCOS = "Y"
DARSCP	ARSFD	YES	CHANGE ACTIVE PATTERN GROUP = "Y"
DBDACT	CFWFD	/CF* only	FEATURE must be /CF*
DBDDCT	CFWFD	/CF* only	FEATURE must be /CF*
DCTCPNBN	CPNBNFD	YES	DACT = "CODE"
DCTMWI	MSFD	YES	AUD MSG WAIT IND = "Y"
			or VIS MSG WAIT IND = "Y"
DFRLALT	ARSFD	YES	CHANGE ALT FRL = "Y"
DGPACT	ARSFD	YES	GROUP ACT TYPE = "CODE"
DGPDCT	ARSFD	YES	GROUP DACT TYPE = "CODE"
DMAINACT	ATHFD	YES	CHANGE FCOS = "Y"
DNPUSE	DISPFD	YES	TN PRIVACY = "Y"
DPN	PUOFD	Not /PO*	(INITIATE = "IDPU DL" or "IPREDN") and BARGE IN = "N"
DPU	PUOFD	Not /PO*	(INITIATE = "IDPU DL" or "IPREDN") and BARGE IN = "Y"
DRPCH	DRFD	Not /DR*	CHANGE RINGING PATTERN = "Y"
EMER	IDFD	YES	None
EMUSE	N/A	N/A	must be the null feature (/*)
FRLALT	ARSFD	YES	CHANGE ALT FRL = "Y"
FRLMAIN	ARSFD	YES	CHANGE ALT FRL = "Y"
FRLDMAIN	ARSFD	YES	CHANGE ALT FRL = "Y"
FTACT	ACVTFD	Not /AT*	ACT TYPE = "CODE"
FTACT	CFWFD	Not /CF*	ACT TYPE != "AUTO"
FTACT	CWTFD	Not /CW*	ACT TYP = "CODE"

FTACT	DRFD	Not /DR*	ACT TYPE = "CODE"
FTACT	MWFD	Not /MW*	ACT/INACT OPTION = "ACT1CA" or "CUSTSEL"
FTACT	PFAFD	Not /PF*	None
FTACT	PUOFD	Not /PO*	ACT TYPE = "CODE"
FTACT	PUTFD	See NOTE 1 below	ACT TYPE = "CODE"
FTDCT	ACVTFD	Not /AT*	DEACT TYPE = "CODE"
FTDCT	CFWFD	Not /CF*	DACT TYPE != "NONE" or "AUTO"
FTDCT	CWTFD	Not /CW*	DACT TYP = "CODE"
FTDCT	DRFD	Not /DR*	DACT TYPE = "CODE"
FTDCT	MWFD	Not /MW*	ACT/INACT OPTION = "CUSTSEL" or "INACT1CA"
FTDCT	PFAFD	Not /PF*	None
FTDCT	PUOFD	Not /PO*	DACT TYPE = "CODE"
FTDCT	PUTFD	See NOTE 1 below	DACT TYPE = "CODE"
GPACT	ACVTFD	YES	ACT TYPE = "CODE" and ACVT GRP known
GPACT	ARFSD	YES	GROUP ACT TYPE = "CODE"
GPACT	IDFD;SCFD	YES	CUST ACT/DEACT IDP = "Y"
GPDCT	ACVTFD	YES	DEACT TYPE = "CODE" and ACVT GRP known
GPDCT	IDFD;SCFD	YES	CUST ACT/DEACT IDP = "Y"
GPDCT	ARFSD	YES	GROUP DACT TYPE = "CODE"
GRPCARCH	IDFD	YES	GPIC CUST CHANGEABLE = "Y"
HIRINGA	HIFD	YES	SEL ICM DIAL = "Y"
HIRINGB	HIFD	YES	SEL ICM DIAL = "Y" or ICM CODE DIAL = "Y"
HIRINGC	HIFD	YES	SEL ICM DIAL = "Y"
HIRINGG	HIFD	YES	SEL ICM DIAL = "Y"
HIDHOLD	HIFD	YES	DIAL HOLD = "Y"
IBSYVfy	PUOFD	Not /PO*	INITIATE = "BSYVfy"
ICTT	PFAFD	/PF* only	FEATURE must be /PF*
IDNACT	ACVTFD	YES	None
IEMEROVR	PUOFD	Not /PO*	INITIATE = "EMEROVR"
IGACT	ACVTFD	YES	None
INSUSE	DISPFD	YES	INSPECT = "Y"
LDNDCT	CFWFD	Not /CF*	DACT TYPE != "NONE", "KEY", or "AUTO"
LSP	PUOFD	Not /PO*	INITIATE = "LDSPKPG"
LSFSYM	LSCAFD	YES	None
LSFSYM	LSCFFD	YES	None
LSFSYM	LSDAFD	YES	None
LSFSYM	LSCRFD	YES	None
LSFSYM	LSCARFD	YES	None
LSFNOSYM	LSCAFD	YES	None
LSFNOSYM	LSCFFD	YES	None
LSFNOSYM	LSDAFD	YES	None
LSFNOSYM	LSCRFD	YES	None
LSFNOSYM	LSCARFD	YES	None
LWCUSE	MSFD	YES	LW CALLING = "OUT" or "INOUT"
MAINACT	ACCTFD	YES	PARM ACT TYPE = "CODE"
MAINACT	ATHFD	YES	CHANGE FCOS = "Y"
MDRACT	MDRFD	YES	ACT TYPE = "CODE"
MDRDCT	MDRFD	YES	DACT TYPE = "CODE"
MDROFF	MDRFD	YES	GRP CHANGE ALLOWED = "Y"
MDRON	MDRFD	YES	GRP CHANGE ALLOWED = "Y"
MEOFF	N/A	N/A	must be the null feature (/*)
MEON	N/A	N/A	must be the null feature (/*)
MWITD	MWFD	Not /MW*	DIAL CODE OR BUTTON = "Y"
MWSOH	MWFD	Not /MW*	IN MIDDLE = "Y" or OFF HOOK = "Y" or MULTIWAY CONTROL = "CODEALT"
MWSPL	MWFD	Not /MW*	SPLIT LAST PTY = "Y"
NNPRV	DISPFD	YES	TN PRIVACY = "Y" or must be /DI*
NNPUB	DISPFD	YES	TN PRIVACY = "Y" or must be /DI*
PFUSE	PFAFD	YES	None
PODUSE	MSFD	YES	PRNT ON DEMAND = "Y"
PVNUSE	N/A	N/A	must be the null feature (/*)
RBQCAN	QUFD	/QU* only	FEATURE must be /QU*
RBQVfy	QUFD	/QU* only	FEATURE must be /QU*
SAUSE	N/A	N/A	must be the null feature (/*)
SDNUSE	N/A	N/A	must be the null feature (/*)
SEL1XFER	N/A	N/A	must be the null feature (/*)
SEL2XFER	N/A	N/A	must be the null feature (/*)
SEL3XFER	N/A	N/A	must be the null feature (/*)
SEL4XFER	N/A	N/A	must be the null feature (/*)

SEL5XFER	N/A	N/A	must be the null feature (/*)
SEL6XFER	N/A	N/A	must be the null feature (/*)
SRGACT	SRFD	NO	None
SRGDCT	SRFD	NO	None
SRGSYM	SRFD	NO	None
SRGNOSYM	SRFD	NO	None
TD1PAD	TODFD	YES	ADD 1 PARM CODE = "Y"
TDACT	TODFD	YES	CUSTOMER ACTIVATION = "Y"
TDADZP	TODFD	YES	ADD 0 PARM CODE = "Y"
TDATCH	TODFD	YES	CHANGE ACTION TIME = "Y"
TDDALL	TODFD	YES	DELETE ALL LISTS = "Y"
TDDCT	TODFD	YES	CUSTOMER ACTIVATION = "Y"
TDDEL1P	TODFD	YES	DELETE 1 PARM LIST = "Y"
TDOWCH	TODFD	YES	CHANGE OWS = "Y"
TDZPDEL	TODFD	YES	DELETE 0 PARM LIST = "Y"
TGACT	TGSRFD	YES	ACT TYPE = "CODE"
TGDCT	TGSRFD	YES	DACT TYPE = "CODE"
UCRACT	N/A	N/A	must be the null feature (/*)
UCRDCT	N/A	N/A	must be the null feature (/*)
US3WC	MWFD	Not /MW*	MWCONTROL = "3WAY" and AMAC = "USE"

Note 1: This feature definition form cannot have a wild-card feature. The PDIT form checks to make sure that the associated feature is not a wild-card feature.

Figure 3 PDIT ACTIONS AND ASSOCIATED RESTRICTIONS

```

pdit                5ESS Switch      _
                   OFFICE DATA ADMINISTRATION
(5300-2)            PREFIX/FEATURE DIGIT INTERPRETER TABLE

*1. PDIT           ____  13. NATURE OF NBR ____
*2. DIGITS TO INTERPRET ____  14. TRIG NBR ____
#3. CALL TYPE      ____  15. ESC CODE      N
  4. TYPE OF CI CALL ____  16. DFLT RT      NONE
  5. ACTION         ____  17. INH OBL      N
  6. FEATURE        ____  18. INH ONA      N
  7. CODE INDEX     ____  19. ANI BYPASS    N
  8. ROUTE INDEX    ____  20. DENY XFER     N
  9. POLYGRID       N    21. REMARK        ____
10. DESEP          ____
11. PREFIX         ____
12. DIGITS TO BE DELETED ____

```

Figure 4 SAMPLE PDIT FORM 5E12 THROUGH 5E15 SOFTWARE RELEASES

```

pdit                5ESS Switch      _
                   OFFICE DATA ADMINISTRATION
(5300-2)            PREFIX/FEATURE DIGIT INTERPRETER TABLE

*1. PDIT           ____  13. NATURE OF NBR ____
*2. DIGITS TO INTERPRET ____  14. TRIG NBR ____
#3. CALL TYPE      ____  15. PREF TRIG NBR ____
  4. TYPE OF CI CALL ____  16. ESC CODE      N
  5. ACTION         ____  17. DFLT RT      NONE
  6. FEATURE        ____  18. INH OBL      N

```

7. CODE INDEX _____ 19. INH ONA N
8. ROUTE INDEX _____ 20. ANI BYPASS N
9. POLYGRID N 21. DENY XFER N
10. DESEP _____ 22. REMARK _____
11. PREFIX _____
12. DIGITS TO BE DELETED ____

Figure 5 SAMPLE PDIT FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3C: 5300-3a/3b/5a/5b RECORD

LOCAL DIGIT INTERPRETER TABLE FORM - LDIT

MULTIPLE LOCAL DIGIT INTERPRETER TABLE FORM - MLDIT

1. GENERAL

The 5300-3 and 5300-5 Records are used to define all area, office and service codes (NPA, NXX, X11, etc.) in a 5ESS Switch. Any code from one to fifteen digits in length may be defined. The LDIT serves as both a "local" and "foreign" area translator.

The LDIT (Local Digit Interpreter Table) is used for further digit interpretation. For line originated calls, the LDIT is used after the PDIT (Prefix/ Feature Digit Interpreter Table). For trunk originated calls, the LDIT is used after the INDIT (Incoming Trunk Digit Preliminary Interpreter Table) when the LDIT(Y or N)? field equals "Y" (Yes) on the INDIT form (5309 Record).

1.1 Interpreted Digits

One to fifteen digits may be interpreted. The number of digits depends on how many digits are required before the destination route can be determined. However, for each digit level interpreted, the successive preceding digit levels must be fully expanded (0 - 9) as well as the final digit level. If a number such as 872 - 2813 needs to be routed differently than all other numbers in 872, then 872X, 872XX, 872XXX and 872XXXX (where X is 0 - 9) would be required entries on the LDIT form.

1.2 Rate and Route

The LDIT form provides a Code Index and Regular Route Index (or Office Code) which, when combined with a Screening Index, is used as an input to the RAR form (5301 Record). The Regular Route Index is used if the RTI field is "REGL" on the RAR form. If this route is not to be used for a particular class of subscribers, a Special Route Index is entered on the RAR form which overrides the Regular Route Index or Office Code.

1.3 Conflict Codes

Code Conflicts occur whenever the destination of a call, normally identified by the first three impulsed digits, depends upon the remaining number of impulsed digits and not upon their value. Code Conflicts occur when an office code in the local area is the same as a foreign NPA. For Local/Toll offices the concept is extended to include cases where the first three digits may be followed by three digits (NPA + Operator Code), four digits (NXX-XXXX), five digits (NPA + Leave Word Operator Code), six digits (NPA + Toll Tandem Codes + Operator Code) or seven digits (NPA + NXX-XXXX). In the NPA/NXX Code Conflicts, the destination indexes for the two conflicting codes is normally different. For the extended case, the destination indexes may be the same for all cases or the destination indexes may be different. The 5ESS Switch treats each distinct case based upon the entries provided on the 5300-5 Record and the 5300-3 Record form. Therefore, each case must be entered on the Conflict Resolution Record and in the Conflict Resolution section of LDIT form even though the destination indexes provided on all entries may be identical.

1.4 Ambiguity Codes

Ambiguities occur whenever the destination of a call depends, at some point in the impulsing, upon whether or not any additional digits are received. As an example, if two entries are provided on the LDIT, one for impulsed digits 023 and another for 023 - 161, an ambiguity occurs after the digit three is received. The ambiguity is resolved by timing. If no more digits are received within a specified interval, the call times out and is given the treatment specified on the 023 LDIT entry. Otherwise, digit analysis continues as more digits are received. For any two LDIT entries in which ambiguity occurs, the entry with the shorter of the impulsed codes

must have a NBR OF DIGITS entry which is exactly equal to the number of digits in the INCOMING DIGITS field.

No ambiguity may occur when the TYPE OF CI CALL is "SAC".

1.5 Conversion Codes

Up to four codes defined on the 5300-3 Record may be converted to any other code for outpulsing from the 5ESS Switch. The normal application of code conversion is for the 411, 611, 811 and 911 3-digit Service Codes. These codes are indicated on the 5300-3 Record with CALL TYPES of "LOCDA", "REPAIR", "BUSOFC" and "EMER", respectively. The converted codes for these Call Types must be defined on the CONV form (5300-4 Record). Since the 5ESS Switch generic software always replaces the dialed digits for these Call Types with the code defined on the 5300-4 Record, the 5300-4 Record must always be completed with entries for these CALL TYPES—even though no code conversion is really required. In such cases, the 5300-4 Record entries must contain the same digits as the dialed code. The converted code is not re-interpreted by the digit analysis call processing software; it is simply used for any required outpulsing subject to digit deletion and prefixing by the Route Index translations, or for Directory Number translations.

1.6 Dial and Access Codes

The 5300-3 Record should contain an entry for every dialable code. This includes NPAs, NXXs and the N11 Service Codes. Feature and operator access codes (e.g., 72, 73, 0 and 1 prefixes, IDDD prefixes, etc.) must not be defined here, but on the PDIT form (5300-2 Record).

1.7 Multiple Local Digit Interpreter Table

MLDIT (Multiple Local Digit Interpreter Table), available with 5E3 and later Software Releases, is similar to LDIT but allows multiple entries of incoming digits to be input when they have common attributes. Conflict or IMPLIED NPA entries are not allowed on the MLDIT form. Entries made on the MLDIT form can only be reviewed on the MLDIT form. The 5300-3 Record will incorporate both LDIT and MLDIT entries.

1.8 Call Types

With 5E4(2) and later, two new values are added to the CALL TYPE field that correspond to inward calls. Inward calls are calls that arrive from a distant operator to an OSPS (Operator Services Position System) operator so that the operator can provide billing validation assistance or complete calls that have experienced difficulties.

With 5E4(2) and later, seven new CALL TYPES were added to handle test calls in toll offices that employ the TOPAS (Testing, Operations, Provisioning and Administration System) operation system.

1.9 Operator Special-Dialed Codes

If an operator is not allowed to use 4-digit OSDCs (Operator Special-Dialed Codes), then distinguishing a number of the form NPA-TTC-OSDC from NPA-NXX-XXXX, the 5300-5 Record is used to separate the two.

The 5300-3 Record data must be populated so that a call originating on an RSM routes out of the same RSM. The 5300-3 Record also has to be populated with the digit analysis data needed to accept and route residual calls.

1.10 Fully Coded Addressing

Available with 5E5 and later, all international outbound calls will be processed using FCA (Fully Coded

Addressing). FCA is a CCS (Common Channel Signaling) single-stage protocol used to route international outbound calls in a uniform manner through the domestic network. With FCA, when an international outbound call is routed to a 5ESS Toll Switch, the 5ESS Toll Switch will collect all the dialed digits and route the call as a CCS single-stage call towards a 4ESS ISC (International Switching Center). CALL TYPEs associated with FCA are "STG1FCA" and "IDDDFCA".

1.11 Foreign Area Translator

For 5E6 and later, operating companies can make use of a FAT (Foreign Area Translator) LDIT during digit analysis. The FAT/LDIT performs further digit analysis on LDITs that are interpreting common dialed or impulsed digit strings. For more information concerning the implementation and use of the FAT/LDIT, see Division 2, Section 1AO.

1.12 Timing Delay

TDAC (Timing Delay For All Calls) is used to eliminate Interdigit timing and to allow Overlap Outpulsing for CONFLICT CALL TYPEs. Conflicts are resolved in two ways - prefix and timing.

A conflict is prefix resolved when the dialed prefix matches the prefix entered in the PREFIX field. For the prefix resolved case, call processing will assume the call has been dialed with the quantity of digits specified in the NBR OF DIGITS field.

For the two conflict entry case, the conflict is also prefix resolved if the PREFIX field is blank, NBR OF DIGITS is known, and a prefix of NONE or 1+ is dialed.

Timing is used to resolve all other conflict scenarios.

Division 2, Section 4C1 discusses the translations for "Special" Features. TDAC translations are found in this section. The TDAC Conflict Resolution Table in Figure 2 represents the result of dialed calls which are interpreted by an LDIT form as Conflict Resolved calls based upon:

- the PREFIX entry on the LDIT form;
- the NBR OF DIGITS entry on the LDIT form;
- and the actual dialed prefix by the end user.

1.13 OSPS International Outbound Calls

If the LDIT field for OSPS international outbound calls is the same as the LDIT for the non-OSPS Toll international outbound calls, see the IDDD form (5307 Record) for the translations to populate the OSPS feature.

1.14 Call Type for Directory Assistance

For 5E7 and later, calls dialed as 5551212, 15551212, or FGD CAC (Carrier Access Code) + 5551212 will be blocked when translated with an LDIT form having TYPE OF CI CALL "INTER", NBR OF DIGITS 7, and CALL TYPE "DA". To successfully translate these calls, the TYPE OF CI CALL must be "INTRA" and the CALL TYPE "DA".

1.15 Recent Change View

The corresponding Recent Change View for the LDIT form is 9.3.

The corresponding Recent Change View for the MLDIT form is 9.15.

2. FORM ENTRIES - 5300-3a RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *LDIT

Description: Enter the Local Digit Interpreter Table Number. The number selected is based upon entries on the DAS form (5300-1 Record)

Valid Entries: 1 - 999

2.3 *INCOMING DIGITS

Description: When using the MLDIT or LDIT form, enter the digits to be interpreted.

Valid Entries: 1 to 15 digits

2.4 RANGE

This field is only used on the MLDIT form. The last three digits specified in the INCOMING DIGITS field through the digits specified in this field will possess the assignments made on Screen 2 of the MLDIT form.

2.5 CALL TYPE

Description: Enter the Call Types to be used. Please refer to Figure 1 for field dependencies per CALL TYPE.

Required Field.

Default: NORMAL

Valid Entries:

Valid CALL TYPE Entries	
Entry	Definition
100	Incoming 100 Type Test Calls
101	Incoming 101 Type Test Calls
102	Incoming 102 Type Test Calls
103	Incoming 103 Type Test Calls
104	Incoming 104 Type Test Calls
105	Incoming 105 Type Test Calls
106	Software Release: 5E3 and later. 106 Test Calls for DSN (Defense Switched Network) offices only.
104R	Incoming Call to a RMS-D3 104 Test Line
105R	Incoming Call to a RMS-D3 105 Test Line
109R	Incoming Call to a RMS-D3 109 Test Line
606R	Incoming Call to a RMS-D3 606 Test Line
101R	Incoming Call to a RMS-D3 101 Test Line
101TP	Incoming Call to a Specific RMS-D3 101 Test Position
101TAT	Incoming Call to a Specific RMS-D3 101 Test Position and TAT
211	Software Release: 5E15 and later. Dial 211.
311	Software Release: 5E15 and later. Dial 311.
900	Software Release: 5E5 and later. 900 calls. This CALL TYPE, is used to prevent a LASS AR (Automatic Recall) user from camping-on

	to this line.
ADDON	Software Release: 5E4(2) and later. Add-on for Alliance Teleconferencing.
APSDN	Software Release: 5E5 and later. ACP (Action Control Point) for a SDN (Software Defined Network). This value indicates that a query should be sent to the NCP (Network Control Point). The NCP will return a routing telephone number.
AUTINW	Software Release: 5E4(2) and later. Automated Inward Call. Calls with this call type are originated by a distant operator and are routed to an automated query.
BBRITL	Software Release: 5E6 and later. This ACTION is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BRITL	Software Release: 5E5 and later. This ACTION is used for non-billed BRITL.
BUSOFC	Business Office (811)
CONFLCT	Conflicting NXX and NPA Code - either prefix resolved or timing resolved. Refer to Division 2, Section 4C1 for the description for the TDAC feature and also see Figure 2 in this section.
CSTL	Coin Station Test Line
DA	555 Directory Assistance. Note: A CALL TYPE of "NORMAL" should be used with DA calls (i.e., 555-1212, NPA-555-1212) that are preceded by an FGD CAC.
DA2VDT	Directory Assistance calls routed to Video Display Terminal.
ECP	Software Release: 5E9(1) and later. Mobile originated call on a 5ESS Switch serving as a Digital Cellular Switch for an ECP (Executive Cellular Processor).
EMER	911 Emergency Service Bureau
FAT	Software Release: 5E6 and later. Foreign Area Translator. When a CALL TYPE of "FAT" is entered, call processing will "escape" to the FAT/LDIT for further digit interpretation.
HNPAD	Home NPA (Numbering Plan Area) dialed in error.
IC1	Incoming 101 Call to Work Station 1
IC2	Incoming 101 Call to Work Station 2
IC3	Incoming 101 Call to Work Station 3
IC4	Incoming 101 Call to Work Station 4
IC5	Incoming 101 Call to Work Station 5
IC6	Incoming 101 Call to Work Station 6
IC7	Incoming 101 Call to Work Station 7
IC8	Incoming 101 Call to Work Station 8
IC9	Software Release: 5E8 and earlier Incoming 101 Call to Work Station 9 associated with CTTU (Central Trunk Test Unit). Software Release: 5E9(1) and later Incoming 101 Call to Work Station 9. Note: Effective with 5E9(1), IC33 is associated with CTTU (Central Trunk Test Unit).
IC10	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 10.
IC11	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 11.
IC12	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 12.
IC13	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 13.
IC14	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 14.
IC15	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 15.
IC16	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 16.
IC17	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 17.
IC18	Software Release: 5E9(1) and later.

	Incoming 101 Call to Work Station 18.
IC19	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 19.
IC20	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 20.
IC21	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 21.
IC22	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 22.
IC23	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 23.
IC24	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 24.
IC25	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 25.
IC26	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 26.
IC27	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 27.
IC28	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 28.
IC29	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 29.
IC30	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 30.
IC31	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 31.
IC32	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 32.
IC33	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 33 associated with CTTU (Central Trunk Test Unit).
IDDDFCA	Software Release: 5E5 and later. International Direct Distance Dialing FCA call.
IDDDSTS	Software Release: 5E3 and later. International Direct Distance Dialing Station to Station.
INV	Software Release: 5E3 and later. ISTF (Integrated Services Test Function) Inverted Loopback test.
INWATS	INWATS (800+)
LNACP	Software Release: 5E6 and later. ACP (Action Control Point) for a LN (Leased Network).
LOCDA	Local Directory Assistance (411)
LTD	Local Test Desk
MEETME	Software Release: 5E4(2) and later. Alliance Teleconferencing meet-me call.
NINV	Software Release: 5E3 and later. ISTF (Integrated Services Test Function) Non-Inverted Loopback test.
NORM555	Software Release: 5E16 and later. Dial (1) + 555 - XXXX
NORMAL	This value is used for all other types of calls and indicates normal call processing. Intraoffice and interoffice (usually seven or ten digit) calls require no special handling by the Software Release.
NS800	Software Release: 5E4(2) and later. Number Service (SSP800) type call.
OCTL	Open Circuit Test Line
OPINW	Software Release: 5E4(2) and later. Operator-assisted Inward Call. Calls with this call type are originated by a distant operator and are routed to an OSPS operator position.
OPNIT	Operator-assisted DA/Non-ISP call to the VDT.
OSOIWTS	Originating Screening Office INWATS (see Note)
PB	Incoming Permanent Busy Type Test Calls
RELAY	Software Release: 5E15 and later.

	711 Relay/Hearing Impaired Service.
REPAIR	Repair Service Bureau (611)
SDNA	Software Release: 5E3 and later.
	Software Defined Network outgoing calls from the NAP (Network Access Point).
SDNE	Software Release: 5E3 and later.
	Software Defined Network incoming calls to the NAP (Network Access Point).
SPAB800	Software Release: 5E5 and later.
	Special Access Basic 800 Service.
SPAM800	Software Release: 5E5 and later.
	MEGACOM 800 Service.
SRTT	Station Ringer Touch-Tone Test
STG1FCA	Software Release: 5E5 and later.
	First Stage of a Fully Coded Addressing international outbound call.
SYN	Incoming Synchronous Type Test Calls
VACANT	Vacant NPA, NXX and Service Codes
WETESTC	Software Release: 5E8 and later.
	Test call associated with 5ESS library programs.

Data Rules:

Call Types "LOCDA", "REPAIR", "BUSOFC" and "EMER" require a corresponding entry on the CONV form.

For 5E3 and later, the MLDIT form requires a CALL TYPE entry. A CALL TYPE of "CONFLCT" is not allowed on the MLDIT form.

For 5E5 and later, if a CALL TYPE of 100, 101, 101R, 101TAT, 101TP, 102, 103, 104, 104R, 105, 105R, 106, 109R, 606R, IC1, IC2, IC3, IC4, IC5, IC6, IC7, IC8, IC9, INV, NINV, PB or SYN is entered, then ROUTE INDEX on the RTIDX form, which corresponds to the ROUTE INDEX on this form, must have a ROUTE TYPE of "TEST".

A digit string used for test CALL TYPEs must be used for the same test CALL TYPE in all LDITs in which the digit string is defined. This applies to digit strings defined on LDIT, MLDIT and RDIT forms (5300-7/8 Record).

A terminating test line ("10x", "PB", or "SYN") must be defined in the office as a CALL TYPE on an RDIT, LDIT, or MLDIT form, or as TEST CODE on a LINE form (5109-1/2/3 Record).

For 5E12 and later, when CALL TYPE of "SPAB800", "SPAM800", "IDDDFCA" or "IDDDSTS" is entered, CI TYPE must be "NONCI".

For 5E13 and later, when CALL TYPE is "SDNE", ROUTE INDEX is entered, and PORTED IN is "N", OFFICE CODE cannot be entered.

ADDON: If "ADDON" is entered in the CALL TYPE field, then FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" and "ATCINT".

For 5E7 and later, if CALL TYPE or CONFLICT RESOLUTION CALL TYPE is "ADDON" or "MEETME", then ORIG SCREEN OFF is "Y" on the OFCOPT form and OSPS DA is "Y" on the OSPSOPT form.

APSDN: This value can only be used when a 5ESS Switch is an ACP (ACT PT SDN field on the OFCOPT form is "Y").

AUTINW: This is a valid call type only if the OSPS TA parameter is set to "Y" on the OSPSOPT form.

BBRITL: The DSL which is being tested must have BRITL ALW set to "Y" on the corresponding DSLUSR form.

CONFLICT: For 5E3 and later, when CALL TYPE is "CONFLICT", NBR OF DIGITS is specified, and PREFIX is blank, there must be exactly two CONFLICT RESOLUTION entries.

For 5E9(1) and later:

If CALL TYPE is "CONFLICT", then the DFLT RT on Screen 1 must be "NONE".

If "CONFLICT" or "FAT" are entered in CALL TYPE and "SAC" is entered in TYPE OF CI CALL, then LDIT or MLDIT forms with the above values cannot have INCOMING DIGITS which are the starting digits of:

- INCOMING DIGITS on another LDIT or MLDIT form
- IDDD PREFIX / COUNTRY ACCESS CODE combination on the IDDD form

This restriction applies only to LDIT, MLDIT, IDDD forms sharing the same LDIT value.

For 5E10 and later:

When CALL TYPE is "CONFLICT", ANI BYPASS must be "N".

For 5E11 and later:

When CALL TYPE is not "CONFLICT", CONFLICT RESOLUTION entries cannot be made.

When CALL TYPE is "CONFLICT", then:

- LNP TRIG NBR must not be entered.
- GEO PORT must be "N".
- PORTED IN must be "N"
- HOME LRN must be "N"
- LRN SCREENING must be "N"
- IHN DNT must be "N"
- ESC CODE must be "N"
- DFLT RT must be "NONE"
- CONFLICT RESOLUTION ANI BYPASS must be "N"
- ROUTE INDEX is prohibited.
- OFFICE CODE is prohibited.
- At least two CONFLICT RESOLUTION entries must be made.

For 5E13 and later, when CALL TYPE is "CONFLICT", NPA SPLIT ANNC must be "N".

For 5E14 and later, when CALL TYPE is "CONFLICT", REL LINK must be "N".

EMER: If a CALL TYPE of "EMER" or "NORMAL" is entered, a TRIG NBR is defined on an NSTRIG form and APPLICATION on the NSTRIG form is "E911" or "800", then ROUTE INDEX and OFFICE CODE on the LDIT or MLDIT form cannot be entered. If APPLICATION on the NSTRIG form is "ASP", then ROUTE INDEX or OFFICE CODE on the LDIT or MLDIT form must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.

For 5E11 and later, when CALL TYPE is "EMER" and TYPE OF CALL is "INTRA", TRIG NBR must match a TRIG NBR on the NSTRIG form where APPLICATION is "E911."

FAT: When CALL TYPE is "FAT", the value of INCOMING DIGITS on this LDIT form must be in the range 200 - 999 since this represents the FAT/LDIT table number (FAT/LDITs must be in this range); and must be equal to the LDIT value defined on an SMLDIT form (5315 Record) where the FAT field has an entry of "Y" (Yes). Digit interpretation continues on the FAT/LDIT represented by the value of INCOMING DIGITS; therefore, this value of INCOMING DIGITS cannot be expanded on the local LDIT table.

The "FAT" call type cannot be entered on an LDIT pointed to by another FAT/LDIT (a FAT/LDIT cannot point to another FAT/LDIT). Also, the "FAT" call type is not applicable to the CONFLICT RESOLUTION TABLE or the MLDIT form (5300-5 Record).

Code Conversion call types ("EMER", "LOCDA", "REPAIR" or "BUSOFC") cannot be assigned on FAT/LDITs.

For 5E8 and later, if CALL TYPE is "FAT", RDIT cannot be entered.

For 5E9(1) and later, if "CONFLCT" or "FAT" are entered in CALL TYPE and "SAC" is entered in TYPE OF CALL, then LDIT or MLDIT forms with the above values cannot have INCOMING DIGITS which are the starting digits of:

- INCOMING DIGITS on another LDIT or MLDIT form
- IDDD PREFIX / COUNTRY ACCESS CODE combination on the IDDD form

This restriction applies only to LDIT, MLDIT, IDDD forms sharing the same LDIT value.

For 5E11 and later, when CALL TYPE is "FAT", POLYGRID must be "N".

For 5E16(2) and later, when CALL TYPE is not "FAT", FAT LDIT must be blank.

IDDDFCA: This value is used for the address sequence of an international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. A DAS (Digit Analysis Selector) of 81 will be used instead of the DAS associated with the incoming trunk group. This Call Type may be assigned to incoming digit sequences CC + NN or 0/1X + CC + NN. CC is the Country Code. NN is the National Number. 0/1X is the ISC (International Switching Center) prefix code.

If "IDDDFCA" is entered, then "Y" must be entered in the OFFICE TYPE on the OFCOPT form (5509 Record).

IDDDSTS: Used for multistage international outbound calls which are routed to a MF trunk, CCIS6 trunk or CCS7 ISUP trunk. This value may be assigned to codes which require two-stage call handling at a toll or tandem office. Two-stage call handling includes an acknowledgement wink before the second stage of digits is sent. Also used in a tandem or toll office when the digits impulsed on the trunk, typically from a TSPS, are 011 + padded Country Code.

For 5E5 and later, this value can be used for:

- A Local office (OFFICE TYPE on the OFCOPT form is "N") where the incoming digits are 011 + (7 - 12 digits).
- A Toll office (OFFICE TYPE on the OFCOPT form is "Y") which will not use FCA (Fully Coded Addressing). Possible incoming digits are 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.
- A 5ESS Gateway switch that requires an FCA international outbound call to leave the office on an MF trunk must assign this CALL TYPE to the digit sequence CC + NN. CC is the Country Code. NN is the National Number. ISTF (Integrated Services Test Function) Inverted Loopback test.

LNACP: This value indicates that a query should be sent to the LN NCP (Network Control Point). The NCP will return routing and charging information. This value can only be used when the Leased Network DAS field is entered on the OFCOPT form (5509 Record).

MEETME: If "MEETME" is entered in the CALL TYPE field, then FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" and "ATCINT".

For 5E7 and later, if CALL TYPE or CONFLICT RESOLUTION CALL TYPE is "ADDON" or "MEETME", then ORIG SCREEN OFF is "Y" on the OFCOPT form and OSPS DA is "Y" on the OSPSOPT form.

NORM555: For 5E16 and later, when CALL TYPE is "NORM555", TRIG NBR and CODE INDEX must be entered.

NORMAL: See "EMER" above.

OPINW: The OSPS TA field on the OSPSOPT form must be "Y".

OSOIWTS: If this Call Type is used, COMMON CHAN SIG and ORIG SCREEN OFF must be "Y" and the HOME NPA must be specified on the OFCOPT form (5509 Record). See the ONPA form (5312 Record) for related information.

For 5E7 and later, when CALL TYPE is "OSOIWTS", TYPE OF CI CALL must be "NONCI", "INTER", or "INTRA".

If at least one RDIT, LDIT or MLDIT form exists with a CALL TYPE of "OSOIWTS", FIXED ROUTE TYPE must equal "UIA" on a FIXRT form.

NOTE: OSOIWTS is used by an Inter-LATA Carrier switch to do originating screening for INWATS digits impulsed as 800 or 00X plus 7 digits. If this Call Type is used, COMMON CHAN SIG and ORIG SCREEN OFF must be "Y" and the HOME NPA must be entered on the OFCOPT form (5509 Record). See the ONPA form (5312 Record) for related information.

SPAB800: Special Access Basic 800 service allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAB800" on the TKGRP form).

SPAM800: MEGACOM 800 service is a volume discount service which allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAM800" on the TKGRP form). MEGACOM 800 service is similar to Special Access Basic 800 service except that the customer must supply the dedicated trunk group to the 5ESS Toll Switch.

STG1FCA: This value should be used for the first stage of a multi-stage international outbound call incoming

to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA (Fully Coded Addressing). This Call Type may be assigned to incoming digit sequences 1NX + XXX + CCC, 1NX + XXXX + CCC, 011 + PCC, or 18X. 1NX is the customer direct dialed digits. XXX is the 3-digit international carrier. XXXX is the 4-digit international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international code.

For 5E9(1) and later in Recent Change: If "STG1FCA" is entered, then the NBR OF DIGIT field must be 3, 6, 9, or 10.

VACANT: Attempts to dial codes defined as "VACANT" will result in vacant code treatment. In addition, ASP will consider these codes invalid pre-query.

Switch owners may need to define RNX codes that are considered "VACANT" in the normal dialing plan but are treated as "NORMAL" for purposes of ASP pre-query. For these codes, the user should receive "VACANT" code treatment if the number is dialed directly. To accomplish this, CALL TYPE should be set to "NORMAL" and the ROUTE INDEX set to the ROUTE INDEX from the FIXRT form (5301-1 Record) where the FIXED ROUTE TYPE is equal to "VACANT". To identify the RNX codes defined in this manner, it is recommended that the REMARK field should be set to "RNX VAC/ASP QRY".

For 5E15 and later, CALL TYPE on the LDIT/MLDIT forms can be set to "RELAY" only if the ACT field for SFID 594, on the SFSYS form is set to "Y".

2.6 TYPE OF CI CALL

Description: Enter the type of CI (Carrier Interconnect) call. See Figure 1 for appropriate entries per Call Type.

On the MLDIT form, this is a required entry.

Valid TYPE OF CI CALL Entries	
Entry	Definition
COMP	Used for calls to a geographical area where the LEC (Local Exchange Carrier) and ICs (Inter-LATA Carriers) compete on an equal basis. Such calls must be routed by a carrier, but this "carrier" may be the LEC. If the subscriber wants to be routed via the LEC, the subscriber must either be presubscribed to the LEC or dial an explicit FGD CAC.
CONFL	Used for cases where the call may be either INTER (Inter-LATA) or INTRA (Intra-LATA), depending on the dialed prefix. See Data Rules for more information.
INTER	Used for calls destined for outside the LATA. Such calls must be routed via a carrier, not the LEC. If the carrier is to be determined by an external database (e.g. AIN database query), "NONCI" should be used since carrier selection is irrelevant in this switch.
INTRA	Used for calls destined for within the LATA. Usually routed via the LEC. If other carriers are permitted and accept Intra-LATA calls, an explicit FGD CAC must be dialed (not presubscription) to access the carriers for these calls.
INTRM	Software Release: 5E8 and later. FGB Interim call is used for an incoming trunk call dialed by the originator as 950XXXX. The 950 digits are entered in the INCOMING DIGITS. The XXXX represents a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the INCOMING DIGITS. When "INTRM" is entered, the last four digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's FGB CDI and FGB RTI. Because "INTRM" is also a valid entry in the LDIT form, it may be optionally used instead of the INDIT form.
NONCI	Used for calls for which carrier selection is irrelevant.
PRIV	Used for EAS (Extended Area Service) calls where the local calling area extends into the neighboring LATA. These Inter-LATA calls are treated as INTRA (routed by the LEC) except when the subscriber explicitly dials an FGD CAC for an IC. When the FGD CAC is dialed, the call is treated as INTER.

PSCAR	Software Release: 5E3 and later. For PS (Packet Switched) calls, indicates that an IC (Interexchange Carrier) is required. If the DNIC of the IC is given in the RPOA (Recognized Private Operating Agency) selection field, that DNIC is used to route the call. If the DNIC is not given in the RPOA, then the preselected IC is used, given by the IECF DNIC field on the DSLUSR form (5908 Record). The route index is assigned to the DNIC on the PSDNICRI form (5921 Record), therefore the ROUTE INDEX and CODE INDEX must not be entered on this form. The preselected (default) IC is selected at the time of the service order. If the DNIC is not given in the RPOA or entered in the IECF DNIC field, then the PS call is cleared.
PSNCI	Software Release: 5E3 and later. For packet switched calls, indicates a carrier interconnect does not apply, therefore a ROUTE INDEX and a CODE INDEX must be specified on this form.
SAC	Used for SACs (Service Access Codes), e.g., 800 and 900 codes. Each six digit SAC code (800/900 + NXX) is assigned to a specific carrier. The Code Index and Route Index from this form, the LDIT, will be used to route the call. When this Type of CI Call is specified, the Carrier Identification must be entered in SAC OWNER. SAC may not be specified in an ambiguous case.
TCONF	Software Release: 5E9(1) and later. Intra-LATA toll conflict. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TCONF", a SFSYS form must exist with SFID 149 set to "Y".
TOLL	Software Release: 5E9(1) and later. Toll calls within the LATA. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TOLL", a SFSYS form must exist with SFID 149 set to "Y".
WZ1	Used for calls outside the continental United States, but within World Zone 1 (e.g., Canada).

Data Rules:

This field must be entered for all CALL TYPEs except "CONFLCT" and "FAT"

CONFL: Call processing will look ahead at other records to determine if the call should be treated as Intra-LATA or Inter-LATA. When no prefix has been dialed, the ROUTE INDEX value of this LDIT entry will be compared to the RTI value entered in the No Prefix column of the originator's Rate and Route form (5301 Record). If the RTI value equals the ROUTE INDEX value or is REGL, it is considered a match and treated as an Intra-LATA call. If the RTI is not equal to the ROUTE INDEX value, there is no match and therefore the call will be treated as an Inter-LATA call. When a 1 prefix has been dialed, the process is the same as the No Prefix case, except the RTI value found in the 1+ Prefix column of the RAR is used for comparison. When a 0 prefix has been dialed, the comparison technique is inappropriate. In this case, the 0+ Prefix entry in the RAR will be read. The RTI value in that entry will be analyzed to determine whether or not it is an Announcement Route Index. If it is an announcement, the call will be processed as an Inter-LATA call. If it is not, the call will be treated as an Intra-LATA call. When the zero plus call should be treated as an Inter-LATA carrier call and therefore the RAR has an announcement type Route Index, care must be taken to make sure the associated CBLK entry equals No.

PSCAR: When using this type of CI Call, the CALL TYPE must be "NORMAL" or "900".

PSNCI: When this TYPE OF CI CALL is used, a CALL TYPE of "NORMAL", "900" or "VACANT" must be entered.

Packet Switching TYPE OF CI CALLs ("PSCAR" and "PSNCI") cannot be mixed with non-Packet Switching TYPE OF CI CALLs within a single DAS.

For 5E8 and later, if TYPE OF CI CALL is "PSCAR" or "PSNCI", TRIG NBR must not be entered.

For 5E9(1) and later, if "PSNCI" or "PSCAR" are entered in the CI TYPE CONFLICT RESOLUTION ENTRIES then NBR OF DIGITS and PREFIX cannot be entered.

SAC: When this TYPE OF CI CALL is used, a CALL TYPE of "INWATS", "NORM555", "NORMAL", "900" or "DA" must be entered.

For 5E8 and later, if TYPE OF CI CALL is "SAC", RDIT cannot be entered.

For 5E9(1) and later, if "CONFLCT" or "FAT" are entered in CALL TYPE and "SAC" is entered in TYPE OF CI CALL, then LDIT or MLDIT forms with the above values cannot have INCOMING DIGITS which are the starting digits of:

- INCOMING DIGITS on another LDIT or MLDIT form
- IDDD PREFIX / COUNTRY ACCESS CODE combination on the IDDD form

This restriction applies only to LDIT, MLDIT, IDDD forms sharing the same LDIT value.

WZ1: All forms with TYPE OF CI CALL equals "WZ1" which have the first three digits (that is, the NPA (Numbering Plan Area)) in the INCOMING DIGITS fields must have the same value for WZ1 REGION.

For 5E6 and later, this type of Carrier Interconnect is allowed on FAT/LDITs, however, instead of this value (WZ1) being related to the first three digits of INCOMING DIGITS, it is related to the FAT/LDIT table number.

For 5E9(1) through 5E14, when CALL TYPE is "LOCDA", "BUSOFC", or "REPAIR", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".

For 5E12 and later, "IDDD" is not a valid value for TYPE OF CI CALL.

For 5E15 and later, when CALL TYPE is "BUSOFC", "LOCDA", "RELAY", or "REPAIR", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".

2.7 NBR OF DIGITS

Description: Enter the total number of digits expected excluding the dialed prefix.

On the MLDIT form, this is a required entry for 5E4(2) and later.

Valid Entries: 1 - 15 or 1 - 18 if IDDD15 functionality is available

Data Rules:

If a value is entered in this field, it must be equal to or greater than the quantity of digits entered in the INCOMING DIGITS field.

For the CALL TYPE of "CONFLCT", where the conflict is prefix resolved, enter the total number of digits expected for the entry associated with the prefix value entered under PREFIX. Refer to Division 2, Section 4C1 for the description for the TDAC feature and also see Figure 2 in this section.

For CALL TYPEs of "FAT", this field must be blank.

For 5E8 and later, if NBR OF DIGITS is 0 through 6, 8, or 9, and TRIG NBR matches TRIG NBR on an NSTRIG form (5324 Record) where SERV KEY is "CDPN" and APPLICATION equals "ASP", ALT GBL TITLE on NSTRIG must be entered.

For 5E12 and later, when FAT on the corresponding SMLDIT form is "Y", then NBR OF DIGITS must be equal to 4 or 7.

For 5E12 and later, when FAT on the corresponding SMLDIT form is "N", then NBR OF DIGITS on the MLDIT form must be equal to 3, 7 or 10.

For 5E12 and later, when FAT on the corresponding SMLDIT form is "N" and the CONFRES.CI TYPE on the LDIT form is not "IDDD", then NBR OF DIGITS on the MLDIT form must be equal to 3, 7 or 10.

2.8 RDIT

Description: Enter the Remaining Digits Interpreter Table number.

Software Release: 5E8 and later

Valid Entries: 1 - 999

Data Rules:

If RDIT is entered:

- NBR OF DIGITS must be greater than the length of INCOMING DIGITS,
- CALL TYPE cannot be "FAT",
- For LDIT forms, RDIT and INCOMING DIGITS must equal RDIT and PREVIOUS DIGITS on an RDIT form, and
- For MLDIT forms, RDIT and the digit string derived from INCOMING DIGITS and RANGE must equal RDIT and PREVIOUS DIGITS on an RDIT form.

2.9 CODE INDEX

Description: The Code Index combined with a Screening Index is used as an input to the Rate and Route Tables.

For 5E6 and later, the CODE INDEX determines whether or not pre-query call screening will be performed for SSP/800 calls. If CALL TYPE is "NS800" and a value is entered in CODE INDEX, then pre-query screening will be performed. The screening index from the originating line or trunk, along with the dialed prefix and this CODE INDEX, will be used to access the RAR form. When the RTI from the associated RAR form is "REGL", the normal SSP/800 query and call processing will occur. When the RTI contains a numbered route index, the call will be routed to that RTI.

For 5E8 and later, CODE INDEX is now a real Code Index and no longer a pointer to the DISERV form (5321 Record).

Valid Entries: 3 - 4095

Data Rules:

This field must be blank if the CALL TYPE is "VACANT", "CONFLCT", "FAT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN" or "CSTL".

If the CODE INDEX is entered, it must match the CDI field on an RAR form (5301 Record).

Code Index 1 (0-) and Code Index 2 (010) may not be entered on the LDIT Record.

All combinations of CODE INDEX, PREFIX from the PDIT form, and SCREENING INDEX from the LCC form (5306 Record) must have corresponding RAR form entries for CDI, PFX, and SCR.

All combinations of CODE INDEX and SCR from the TKGRP form must have corresponding RAR form entries for CDI, SCR, and "NONE" for PFX.

For 5E8 and later, either CODE INDEX or CDI on this form or an RDIT form, or CODE INDEX on a PDIT or INDIT form, or WITH ANI or WITHOUT ANI on an AISCLS form must equal INC CDI on an INFLDEST form (5448 Record).

2.10 ROUTE INDEX

Description: This field indicates the Regular Route Index to be used for routing the call except when a Special Route Index entered on the RAR overrides it. The Regular Route Index is the route which is used by the majority of call originators to complete the call.

For 5E8 and later, the ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

When the CALL TYPE is "VACANT", "NS800", "CONFLCT", "FAT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN" or "CSTL", this field must be blank. When the CALL TYPE is other than those just listed, an entry is required in this field or in the OFFICE CODE field.

2.11 FAT LDIT

Description: This field represents the Foreign Area Translations LDIT.

Software Release: 5E16(2) and later.

Valid Entries: 1 - 16382

2.12 POLYGRID

Description: Is polygrid routing used for DSN (Defense Switched Network) offices?

Enter "N" for non-DSN offices.

Software Release: 5E3 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CALL TYPE is "FAT", and TYPE OF CI CALL is "PSCAR" or "PSNCI", POLYGRID must be "N".

If the LDIT or MLDIT forms have a ROUTE INDEX entered, and POLYGRID is "Y", then the DSN OPTION

field on the OFCOPT form must be "Y".

2.13 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

When NPA is entered, OFFICE CODE must be entered.

For 5E12 and later, when the OFFICE CODES and/or NPA/OFFICE CODE combinations are assigned on the LDIT and/or MLDIT forms, they must be defined on the NOC form.

2.14 OFFICE CODE

Description: Enter an Office Code (NXX) served by the 5ESS Switch (i.e., defined on the NOC form). If an Office Code is entered, it will be entered to "route" the call to a Directory Number of this NXX in this office except when overridden by a Special Route Index entered in the Route Index field of the RAR form.

Valid Entries: 3 digit NXX (N = 2 - 9, X = 0 - 9)

Data Rules:

When the Call Type is "VACANT", "NS800", "CONFLCT", "FAT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN", "SPAB800", "SPAM800", "IDDDFCA", "IDDDSTS" and "CSTL", this field must be blank. When the Call Type is other than these, an entry is required in this field or in ROUTE INDEX.

For 5E12 and later, if the LDIT forms have an OFFICE CODE defined and there are multiple NOC forms with the same value of OFFICE CODE, NPA must also be defined on the LDIT form.

2.15 DESEP

Description: This field is used to define the Destination Separations Index for Call Types other than "VACANT", "CONFLCT", "FAT", "HNPAD", "LTD", "SRTT", "OCTL", or "CSTL". It is only required for Division of Revenue study.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the Traffic Separation Cell Grouping TRFSEP form (5308 Record).

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.16 PREFIX

Description: This field is only entered on the LDIT form. For a CALL TYPE of "CONFLCT", where the conflict is prefix resolved, enter the prefix associated with the quantity of digits entered in the NBR OF DIGITS field. Each of the values affects call processing as follows: Refer to Division 2, Section 4C1 for a description of the

TDAC feature and also to Figure 2 in this section.

Entry	Effect on Call Processing
Blank	If NBR OF DIGITS is known, and the call is dialed with NONE or 1+ prefix, the conflict is prefix resolved. The conflict is timing resolved if 0+ is dialed. If NBR OF DIGITS is blank, the conflict is timing resolved regardless of the prefix dialed.
NONE	Results in the conflict being prefix resolved if call is dialed with no prefix. NBR OF DIGITS determines the quantity of digits to collect. Conflict is timing resolved for any other dialed prefix.
1+	Results in the conflict being prefix resolved if call is dialed with a 1 prefix. NBR OF DIGITS determines the quantity of digits to collect. Conflict is timing resolved for any other dialed prefix.
0+	Results in the conflict being prefix resolved if call is dialed with a 0 prefix. NBR OF DIGITS determines the quantity of digits to collect. Conflict is timing resolved if any other prefix is dialed.

Normally, a 1 is the prefix value.

Valid Entries: 0, 1, NONE

Data Rules:

This field must be blank when the CALL TYPE is "FAT".

2.17 WZ1 REGION

Description: For codes with a TYPE OF CI CALL equal to WZ1, enter a World Zone 1 region. This digit is used in the first stage of outpulsing for INCs (International Carriers) on either a direct connection or via an Access Tandem. The first stage of outpulsing has a format of KP + 1NX + XXX + 01R + ST, where R is the World Zone 1 region. (1NX is a spare toll center code entered on the Route Index as prefix digits. XXX is the Carrier Identification Code.) For other than WZ1 types, leave this field blank.

Valid Entries: 0 - 9

2.18 TERM LATA

Description: This field is used as the Inter-LATA Carrier when Network Call Denial Screening is required on incoming CAMAANI Trunk Groups.

Valid TERM LATA Entries	
Entry	Definition
1	Indicates LATAs not subtending the switch
2 - 31	Software Release: 5E5 and later. Indicates a subtending LATA of the switch.

Data Rules:

If TYPE OF CI CALL is "PSCAR" or "PSNCI", then this field must be blank.

If CALL TYPE is "LNACP", this field must be blank.

If TERM LATA is specified, COMMON CHAN SIG must equal Yes on the OFCOPT form (5509 Record).

When the CALL TYPE is "NORMAL", "DA", "IDDDSTS", "AUTINW", "OPINW" or "INWATS", enter an appropriate value to indicate, based on incoming digits, the destination of this call.

The TERM LATA value is compared to an ORIG LATA value specified on the TKGRP form (5202-3 Record).

2.19 SAC OWNER

Description: For codes with a TYPE OF CI CALL equal to "SAC", enter the Carrier Identification Code of the

carrier "owning" the Service Access Code, or "LEC" for a Local Exchange Carrier. The ICF form (5305 Record) will be accessed to check the validity of the Carrier ID and to determine if overlap outpulsing might be required. However, routing will be done based on the Code Index and Route Index of the LDIT, not the ICF.

Valid Entries:

- For 5E8 and earlier: 0 - 999 or "LEC"
- For 5E9(1) and later: 0 - 9999 or "LEC"

Data Rules:

SAC OWNER must be specified for "SAC" TYPE OF CI CALL and is allowed only for "SAC" TYPE OF CI CALL.

For 5E8 and later, if SAC OWNER or CONFLICT RESOLUTION SAC OWNER is assigned on the LDIT form, then they must be defined as CARRIER IDs on an ICF form with FEAT GRP = "D".

2.20 NATURE OF NBR

Description: Enter the nature of the number. This field is used during query formulation of Network Services calls, and is populated only for ASP SSP offices.

Software Release: 5E8 and later

Valid Entries:

Valid NATURE OF NBR Entries	
Entry	Definition
IDDD or I	International
NATL or N	National
PRIV or P	Private

Data Rules:

For 5E8, if NATURE OF NBR is entered, TRIG NBR must be entered.

NATURE OF NUMBER must be entered when ASP OFC on OFCOPT is "SSP", and TRIG NBR equals TRIG NBR on an NSTRIG form where APPLICATION is "ASP".

2.21 TRIG NBR

Description: Enter the Network Services trigger number.

Software Release: 5E8 and later

Valid Entries:

- For 5E8: 1 - 127
- For 5E9(1) and later: 1 - 255

Data Rules:

If TRIG NBR is entered:

- it must equal TRIG NBR on an NSTRIG form,
- TERM LATA cannot be entered, and CODE INDEX must also be entered,
- if RDIT is also entered, CALL TYPE cannot be "CONFLCT",

- if APPLICATION on the corresponding NSTRIG form is "E911", CALL TYPE must be "EMER", and TYPE OF CI CALL must be "INTRA";
- if NBR OF DIGITS is neither 7 nor greater than 9, and SERV KEY on the corresponding NSTRIG form equals "CDPN", ALT GBL TITLE on NSTRIG must be entered and APPLICATION on NSTRIG must be "ASP";
- if a CALL TYPE of "EMER" or "NORMAL" is entered, a TRIG NBR is defined on an NSTRIG form, and APPLICATION on the NSTRIG form is "E911" or "800", then ROUTE INDEX and OFFICE CODE on the LDIT or MLDIT form cannot be entered. If APPLICATION on the NSTRIG form is "ASP", then ROUTE INDEX or OFFICE CODE on the LDIT or MLDIT form must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.
- For 5E8 only, if ASP OFC on an OFCOPT form is "SSP", and APPLICATION on the corresponding NSTRIG form is "ASP", NATURE OF NBR must be entered.

For 5E9(1) and later, when TRIG NBR is entered, NBR OF DIGITS must be 3, 7, or 10.

For 5E12 and later, when TRIG NUM on the LDIT/MLDIT forms is entered and the associated NSTRIG form with the same TRIG NUM has an APPLICATION of "ASP", then INCOMING DIGITS on the LDIT/MLDIT forms must have a first digit of "2", "3", "4", "5", "6", "7", "8", or "9".

For 5E15 and later, when CALL TYPE is "RELAY", TRIG NBR must not be entered.

2.22 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

ESC CODE must equal "N" for CALL TYPE of "CONFLCT".

2.23 DFLT RT

Description: The DFLT RT field is used to identify the type of default routing treatment to be used for the ASP Default Routing for 3/6/10-Digit Triggers (Phase 1) Special Feature. When the ASP Special Feature has been purchased, this field can be used to specify the type of default routing to occur when an ASP specific digit trigger query fails.

Software Release: 5E9(1) and later

Default: NONE

Valid Entries:

Valid DFLT RT Entries	
Entry	Definition
ANNC or A	Default route to announcement (or tone). The call will route to either a tone or announcement, depending on what is defined for the route.
DLDN or D	Default route to dialed DN. The call will route to the DN dialed (or the DN being routed to if the call came

	from a trunk).
NONE or N	No default routing. No special default routing will take place, and normal call treatment will send the call to reorder or NCA (No Circuits Available).

Data Rules:

ANNC: If "ANNC" is entered in the DFLT RT or CONFLICT RESOLUTION ENTRIES DFLT RT field, then a FIXRT form (5301-1 Record) must be defined with FIXED ROUTE TYPE set to "DFLTRT".

NONE: If DFLT RT is not "NONE" and CALL TYPE is not "CONFLCT", then TRIG NBR must be entered.

If DFLT RT is not "NONE" in CONFLICT RESOLUTION ENTRIES, then TRIG NBR must be entered.

For 5E9(2) and earlier, if an LDIT form has a DFLT RT or CONFLICT RESOLUTION ENTRIES DFLT RT other than "NONE", the corresponding TRIG NBR must be defined on the NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1".

For 5E10 and later, when the LDIT forms have a DFLT RT entry or a CONFLICT RESOLUTION ENTRIES DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

If an MLDIT form has a DFLT RT other than "NONE", the corresponding TRIG NBR must be defined on the NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1".

2.24 REMARK

Description: This 16-character field may contain any remarks deemed locally necessary.

Valid Entries: 1 to 16 characters (optional)

3. FORM ENTRIES - 5300-3b RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

3.2 *LDIT

Description: Enter the Local Digit Interpreter Table Number. The number selected is based upon entries on the DAS form (5300-1 Record)

Valid Entries: 1 - 999

3.3 *INCOMING DIGITS

Description: When using the MLDIT or LDIT form, enter the digits to be interpreted.

Valid Entries: 1 to 15 digits

3.4 NPA SPLIT ANNC

Description: Should caller be given a warning announcement if dialing a 7-digit or 10-digit number during permissive period of NPA (Numbering Plan Area) Split?

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NPA SPLIT ANNC is set to "Y", NBR OF DIGITS must be "7" or "10".

When NPA SPLIT ANNC or CONFRES.NPA SPLIT ANNC is set to "Y":

the ACT field for SFID 347 on the SFSYS form (5713-1 Record) must be set to "Y". (For more information, see Division 2, Section 4A347, for the Announcement on Detection of NPA Split feature.)

the APPLICATION field on the ANNAPL form (5529 Record) must be set to "NPA_SP".

the FIXED ROUTE TYPE field on the FIXRT form (5301-1 Record) must be set to "NPA_SP". (The FIXRT form must have a record with NPA_SP.)

IMPLIED NPAs

Description: Implied NPAs are used for NM (Network Management) code controls. When code control is to be put into effect for some specific code (incoming digits), the NPA implied by any dialed code must be known to enable the NM software to block these calls.

Implied NPAs are also used for the Carrier Interconnect capability. On a Direct Trunk Group to the Carrier, if the implied NPA is the Home NPA, the CI software will output the 7-digit number (i.e., without the NPA). If the implied NPA is other than the HNPA, the CI software will include the NPA when outputting to the carrier. On a connection through an Access Tandem, 10 digits will always be outputted.

Implied NPAs may be entered only for 7-digit calls, i.e., when either NBR OF DIGITS or NBR DIG on one of the conflict resolution entries is equal to 7. In addition, a minimum of three digits must be entered in the INCOMING DIGITS field.

The implied NPA for a specific code may depend on the dialed prefix as well as the code itself. If implied NPAs are entered on the LDIT form for any prefix, these NPAs will be the NPAs used for code control.

If an NPA is not entered on the LDIT form, NM will use the DEFAULT NPA from the OFCOPT form as the implied NPA. The NPA which has been specified as the DEFAULT NPA on the OFCOPT form may not be entered as any IMPLIED NPA on the LDIT form.

If AMB is entered under IMPLIED NPA, the NPA of the calling party as defined on the NOC form (Record 5501), will be used as the implied NPA. This entry would be used in offices serving subscribers in two (or more) area codes and the subscribers have similar dialed codes to reach different destinations (i.e., the same codes in different NPAs). For example, if the subscriber is in Area Code 312 and dials 979, the call would complete to a different place than a subscriber (also served by the same office) in Area Code 815 dialing 979. In this case, the subscriber's NPA is the implied destination NPA.

For 5E6 and later, an IMPLIED NPA is not allowed to be entered on an LDIT functioning as a FAT/LDIT.

If more than three digits are interpreted on the LDIT form for 7-digit calls, every LDIT form with the same value of LDIT and the same first three digits of INCOMING DIGITS, must have identical entries in the IMPLIED NPAs fields.

The IMPLIED NPA fields are not available on the MLDIT form.

3.5 PREFIX

Description: This field is only entered on the LDIT form. Enter the prefix.

Valid Entries: 0, 1, NONE

Data Rules:

This field must be entered when an entry is made for NPA.

3.6 NPA

Description: This field is only entered on the LDIT form. Enter the Numbering Plan Area.

Valid Entries: AMB or any valid NPA;
200 - 999

Data Rules:

An entry is permitted only when NBR OF DIGITS equals 7 or a conflict resolution entry has NBR DIG equal to 7.

For 5E12 and later, when the OFFICE CODES and/or NPA/OFFICE CODE combinations are assigned on the LDIT and/or MLDIT forms, they must be defined on the NOC form.

3.7 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later

Default Value: N

Valid Entries: Y, N

LOCAL NUMBER PORTABILITY

For 5E11 and later, fields (Section 3.8) - (Section 3.13) support the Local Number Portability feature. For more information, see Division 2, Section 4A174.

3.8 LNP TRIG NBR

Description: Enter the LNP trigger number. The LNP trigger number is a conditional trigger which initiates a query to the SCP (Service Control Point) based on further routing determinations and checks following the trigger detection.

Software Release: 5E11 and later

Valid Entries: Blank or 1 - 255

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be entered on either an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form.

When LNP TRIG NBR is entered, TYPE OF CI CALL must be:

- "INTER"
- "INTRA"
- "TOLL"
- "COMP"
- "PRIV"
- "NONCI"
- "TCONF"
- or "CONFL".

When both LNP TRIG NBR and TRIG NBR are entered either on an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form, TRIG NBR must be defined as TRIG NBR (whichever is entered) on the NSTRIG form (5324 Record) which has APPLICATION set to "ASP".

When LNP TRIG NBR is entered either on an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form, LNP TRIG NBR must be defined as TRIG NBR on the NSTRIG form (5324 Record) where APPLICATION is "ASP" and AIN REL is "R0D1".

For 5E13 and later, when LNP TRIG NBR or CONFRES.LNP TRIG NBR, TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form (5713-1 Record) is set to "Y".

For 5E12 and later, when LNP TRIG NUM on the LDIT/MLDIT forms is entered and the associated NSTRIG form with the same TRIG NUM has an APPLICATION of "ASP", then INCOMING DIGITS on the LDIT/MLDIT forms must have a first digit of "2", "3", "4", "5", "6", "7", "8", or "9".

3.9 GEO PORT

Description: Has geographically porting occurred for at least one DN associated with this LDIT entry?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When GEO PORT is "Y", LNP TRIG NBR must be entered.

3.10 PORTED IN

Description: Is at least one DN termination in this office which is associated with this LDIT digit translation have a route index (instead of an office code) that is provisioned for this LDIT translation?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be entered on either an LDIT/MLDIT

form or, CONFLICT RESOLUTION on an LDIT form.

When PORTED IN is "Y", TYPE OF CI CALL must be:

- "INTER"
- "INTRA"
- "TOLL"
- "COMP"
- "PRIV"
- "NONCI"
- "TCONF"
- or "CONFL".

When PORTED IN is "Y", ROUTE INDEX must be entered.

When PORTED IN is "Y", OFFICE CODE must be entered.

For 5E13 and later, when PORTED IN or CONFRES.PORTED IN is "Y", TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form (5713-1 Record) is set to "Y".

3.11 HOME LRN

Description: Is this a home location routing number? This field is set to "Y" when the LRN represents this switch or a rate center in this switch.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

3.12 LRN SCREENING

Description: Should the screening attributes be used for LRN? This field is set to "Y" when the LRN is a rate center in this switch which would imply that the TYP CI CALL and CDI from analysis of this LRN should be used.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

3.13 INH DNT

Description: Should the processing of dialed number triggers be inhibited?

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

3.14 NODAL IDX

Description: Proprietary field.

3.15 DN PREFD

Description: Proprietary field.

3.16 GETS HPC

Description: Is GETS (Government Emergency Telecommunication Service) HPC (High Probability Call Completion Service) required? The GETS HPC field is used as an indicator to mark GETS HPC calls so that enhanced functionality provided by other HPC capabilities (e.g., Trunk Queuing, ISUP Signaling, Exemption from Network Management Controls) can be invoked. When set to "Y", calls translated to this address receive special treatment resulting in a higher probability of call completion. For more information, see Division 2, Section 4A279.

The use of HPC Network Capabilities is restricted in the United States and U.S. Territories to National Security/Emergency Preparedness (NS/EP) users authorized by the Office of the Manager, National Communication System (OMNCS). Telco deployment of these HPC Network Capabilities must be co-ordinated with the OMNCS at the following address:

Office of the Manager
National Communication System
Attn: GETS Program Office
701 South Courthouse Rd
Arlington, VA, 22204-2198
email: gets@ncs.gov

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E13 and later, when the LDIT/MLDIT/RDIT forms' GETS HPC is "Y" or CONFLICT RESOLUTION GETS HPC is "Y", and TRIG NBR or CONFLICT RESOLUTION TRIG NBR is known, then the associated NSTRIG form (associated through TRIG NBR) must have APPLICATION set to "ASP" and ASP TOLL FREE must be "N".

For 5E13 and later, when the LDIT/MLDIT/RDIT/INDIT forms' GETS HPC is "Y" or CONFLICT RESOLUTION GETS HPC is "Y", GETS HPC or CONFLICT RESOLUTION GETS HPC can be "Y" only when the GETS High Probability of Call Completion Secured Feature has been purchased. A SFSYS form must exist with SFID 279 ACT set to "Y".

3.17 DENY XFER

Description: This field is used to indicate if call transfers to a particular digit string should be denied. This field supports the Deny Transfer of Digit Screened Calls feature. See Division 2, Section 291.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later:

When DENY XFER is "Y", CALL TYPE must not be "EMER".

When DENY XFER on the LDIT form is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y".

3.18 REL LINK

Description: Is this a release link directory assistance number? This field is used to indicate whether or not the digits being translated map to a release link directory assistance number.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When REL LINK is "Y":

CALL TYPE must be "DA", "LOCDA", "NORM555", or "NORMAL".

One of the following two conditions must exist:

For the Release Link for Toll Office feature using ANSI (American National Standards Institute) standard signaling, the ACT field for SFID 520 on the SFSYS form (5713-1 Record) must be set to "Y"; or

For the Release Link for Toll Office feature using TOPS (Operating System for DMS (Data Management System)) nonstandard signaling, the ACT field for SFID 521 on the SFSYS form must be set to "Y".

4. FORM ENTRIES - 5300-5a RECORD

4.1 BASE AND CONTROL, ESS UNIT

Description: Enter the Base and Control Number and the office name on each record.

CONFLICT RESOLUTION

Description: Conflict Resolution entries are only entered on the LDIT form.

For 5E3 and later, when CALL TYPE is "CONFLICT", NBR OF DIGITS is specified, and PREFIX is blank, there must be exactly two CONFLICT RESOLUTION entries.

For 5E8, for each row of the CONFLICT RESOLUTION ENTRIES list, if NON is entered, TRIG NBR must be entered.

For 5E8 and later, for each row of the CONFLICT RESOLUTION ENTRIES list:

- if TRIG NBR is entered, TERM LATA cannot be entered; and
- if RDIT is entered, NBR DIG must be greater than the length of INCOMING DIGITS.

For 5E9(1) and later, for each row of the CONFLICT RESOLUTION ENTRIES list, when TRIG NBR is entered, NBR DIG must be 3, 7, or 10.

For 5E12 and later:

when CALL TYPE is "CONFLCT" and CI TYPE is "IDDD", at least three CONFLICT RESOLUTION ENTRIES must be made.

when any CONFLICT RESOLUTION ENTRY for CALL TYPE is "IDDDSTS" and CI TYPE is "IDDD", all entries must have the same values.

each row of the CONFLICT RESOLUTION ENTRIES must use consecutive digits in the NBR DIG field when CONFLICT RESOLUTION entries for CALL TYPE is "IDDDSTS" and CI TYPE is "IDDD".

4.2 LDIT

Description: Enter the Local Digit Interpreter Table number. The LDIT must be the same as that from the corresponding 5300-3 Record entry.

Valid Entries: 1 - 999

4.3 INC DIGITS

Description: Enter the code for which the conflict exists. This must be the same as the INCOMING DIGITS of the Conflict Code on the 5300-3 Record. This information is not required as a separate entry on the LDIT form.

Valid Entries: 1 to 15 digits

4.4 NBR DIG

Description: Enter the total number of digits expected excluding any prefix. If the code in conflict is prefix resolved, exactly one of the codes conflict resolution entries must have NBR DIG equal to NBR OF DIGITS entered on screen 1 of this form, 5300-3 Record.

Valid Entries: 1 - 15 or 1 - 18 if IDDD15 functionality is available

Data Rules:

For 5E8 and later, if NBR DIG is 0 through 6, 8, or 9, and SERV KEY on the corresponding NSTRIG form is "CDPN", then on that NSTRIG form, APPLICATION is "ASP" and ALT GBL TITLE must be entered.

For 5E12 and later, when NBR DIG in the CONFLICT RESOLUTION ENTRIES is more than 15, the ACT field for SFID 223 on the SFSYS form (5713-1) must be set to "Y".

For 5E12 and later, when FAT on the corresponding SMLDIT form is "Y", then NBR OF DIGITS must be equal to 4 or 7.

4.5 CALL TYPE

Description: Enter the Call Type to be used. Please refer to Figure 1 for field dependencies per CALL TYPE.

Valid CALL TYPE Entries	
Entry	Definition
211	Software Release: 5E15 and later. Dial 211.
311	Software Release: 5E15 and later. Dial 311.
900	Software Release: 5E5 and later. 900 calls. This CALL TYPE, is used to prevent a LASS AR (Automatic Recall) user from camping-on to this line.
ADDON	Software Release: 5E4(2) and later. Alliance Teleconferencing add-on calls.
APSDN	Software Release: 5E5 and later. ACP (Action Control Point) for a SDN (Software Defined Network). This value indicates that a query should be sent to the NCP (Network Control Point). The NCP will return a routing telephone number.
AUTINW	Software Release: 5E4(2) and later. Automated Inward Call. Calls with this call type are originated by a distant operator and are routed to an automated query.
BBRITL	Software Release: 5E6 and later. This ACTION is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BRITL	Software Release: 5E5 and later. This ACTION is used for non-billed BRITL.
BUSOFC	Business Office (811)
CSTL	Coin Station Test Line
DA	555 Directory Assistance. Note: A CALL TYPE of "NORMAL" should be used with DA calls (i.e., 555-1212, NPA-555-1212) that are preceded by an FGD CAC.
ECP	Software Release: 5E9(1) and later. Mobile originated call on a 5ESS Switch serving as a Digital Cellular Switch for an ECP (Executive Cellular Processor).
EMER	911 Emergency Service Bureau.
FAT	Software Release: 5E16(2) and later. Escape to Foreign Area Translator.
HNPAD	Home NPA (Numbering Plan Area) dialed in error.
IDDDFCA	Software Release: 5E5 and later. International Direct Distance Dialing FCA call.
IDDDSTS	Software Release: 5E3 and later. International Direct Distance Dialing Station to Station.
INWATS	INWATS (800+) LNACP
LOCDA	Local Directory Assistance (411)
LTD	Local Test Desk
MEETME	Software Release: 5E4(2) and later. Alliance Teleconferencing meet-me call.
NORM555	Software Release: 5E16 and later. Dial (1) + 555 - XXXX
NORMAL	All others
NS800	Software Release: 5E4(2) and later. Number Service (SSP800) type call.
OCTL	Open Circuit Test Line
OPNIT	Operator-assisted DA/Non-ISP call to the VDT.
OPINW	Software Release: 5E4(2) and later. Operator-assisted Inward Call. Calls with this call type are originated by a distant operator and are routed to an OSPS operator position.
RELAY	Software Release: 5E15 and later. 711 Relay/Hearing Impaired Service.
REPAIR	Repair Service Bureau (611)
SDNA	Software Release: 5E3 and later. Software Defined Network outgoing calls from the NAP (Network Access Point).

SDNE	Software Release: 5E3 and later. Software Defined Network incoming calls to the NAP (Network Access Point).
SPAB800	Software Release: 5E5 and later. Special Access Basic 800 Service.
SPAM800	Software Release: 5E5 and later. MEGACOM 800 Service.
SRTT	Station Ringer Touch-Tone Test
STG1FCA	Software Release: 5E15 and later. First Stage of an IDDD call.
VACANT	Vacant NPA, NXX and Service Codes

Data Rules:

900:

For 5E13 and later, when "900" or "NORMAL" is entered, RTI is entered and PORTED IN is "N", NXX cannot be entered.

ADDON: For 5E7 and later, when the MLDIT forms have a CALL TYPE of "ADDON" or "MEETME", these call types are allowed only when ORIG SCREEN OFF is "Y" on the OFCOPT form and OSPS DA is "Y" on the OSPSOPT form.

For 5E8 and later, if CONFLICT RESOLUTION CALL TYPE is "ADDON" or "MEETME", then a FIXRT form is required with a FIXED ROUTE TYPE of "ATCNIF".

APSDN: This value can only be used when a 5ESS Switch is an ACP (ACT PT SDN field on the OFCOPT form is "Y").

AUTINW: The OSPS TA field on the OSPSOPT form must be "Y".

BBRITL: The DSL which is being tested must have BRITL ALW set to "Y" on the corresponding DSLUSR form.

CONFLCT: For 5E8 and later, if CALL TYPE is "CONFLCT", RDIT and TRIG NBR cannot be entered.

For 5E9(1) and later, if "CONFLCT" or "FAT" are entered in CALL TYPE and "SAC" is entered in TYPE OF CI CALL, then LDIT or MLDIT forms with the above values cannot have INCOMING DIGITS which are the starting digits of:

- INCOMING DIGITS on another LDIT or MLDIT form
- IDDD PREFIX / COUNTRY ACCESS CODE combination on the IDDD form

This restriction applies only to LDIT, MLDIT, IDDD forms sharing the same LDIT value.

EMER: For 5E8 and later, if a CONFLICT RESOLUTION ENTRY with a CALL TYPE of "EMER" or "NORMAL" is entered, and a TRIG NBR defined on an NSTRIG form with an APPLICATION on the NSTRIG form is "E911" or "800", then RTI and NXX on the LDIT form cannot be entered. If APPLICATION on the NSTRIG form is "ASP", then RTI or NXX on the LDIT form must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.

FAT For 5E16(1) and later, when CONFLICT RESOLUTION CALL TYPE is "FAT":

the ACT field for SFID 616 on the SFSYS form (5713-1 Record) must be set to "Y".

INCOMING DIGITS must be in the range of 200 - 999.

LDIT must not equal to the INCOMING DIGITS.

the following CONFLICT RESOLUTION fields must not be entered:

RDIT

CI TYPE

CDI

NXX

DESEP

WZI REG

NON

TRIG NBR

SAC OWNER

LNP TRIG NBR

NODAL IDX

the following CONFLICT RESOLUTION fields must be N:

POLY

ESC CODE

INH OBL

INH ONA

ANI BYPASS

GEO PORT

PORTED IN

HOME LRN

LRN SCRIN

INH DNT

DN PREFD

DENY XFER

REL LINK

NPA SPLIT ANNC

When CONFLICT RESOLUTION is not "FAT", FAT LDIT must be blank.

IDDDFCA: This value is used for the address sequence of an international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. A DAS (Digit Analysis Selector) of 81 will be used instead of the DAS associated with the incoming trunk group. This Call Type may be assigned to incoming digit sequences CC + NN or 0/1X + CC + NN. CC is the Country Code. NN is the National Number. 0/1X is the ISC (International Switching Center) prefix code.

If "IDDDFCA" is entered, then "Y" must be entered in the OFFICE TYPE on the OFCOPT form (5509 Record).

IDDDSTS: Used for multistage international outbound calls which are routed to a MF trunk, CCIS6 trunk or CCS7 ISUP trunk. This value may be assigned to codes which require two-stage call handling at a toll or tandem office. Two-stage call handling includes an acknowledgement wink before the second stage of digits is sent. Also used in a tandem or toll office when the digits impulsed on the trunk, typically from a TSPS, are 011 + padded Country Code.

For 5E5 and later, this value can be used for:

- A Local office (OFFICE TYPE on the OFCOPT form is "N") where the incoming digits are 011 + (7 - 12 digits).
- A Toll office (OFFICE TYPE on the OFCOPT form is "Y") which will not use FCA (Fully Coded Addressing). Possible incoming digits are 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.
- A 5ESS Gateway switch that requires an FCA international outbound call to leave the office on an MF trunk must assign this CALL TYPE to the digit sequence CC + NN. CC is the Country Code. NN is the National Number. ISTF (Integrated Services Test Function) Inverted Loopback test.

LNACP: This value can only be used when the Leased Network DAS field is entered on the OFCOPT form (5509 Record).

MEETME: If "MEETME" is entered in the CALL TYPE field, then FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" and "ATCINT".

For 5E7 and later, when the MLDIT forms have a CALL TYPE of "ADDON" or "MEETME", these call types are allowed only when ORIG SCREEN OFF is "Y" on the OFCOPT form and OSPA DA is "Y" on the OSPA OPT form.

Also, see "ADDON" above.

NORM555: For 5E16 and later, when CALL TYPE is "NORM555", CDI and TRIG NBR must be entered.

NORMAL: See "EMER" above.

For 5E13 and later, when "NORMAL" or "900" is entered, RTI is entered and PORTED IN is "N", NXX cannot be entered.

NS800: For 5E11 and later, when CONFLICT RESOLUTION CALL TYPE is "NS800",

- TYPE OF CI CALL must be "NONCI"
- RTI must not be entered
- NXX must not be entered.

OPINW: The OSPS TA field on the OSPSOPT form must be "Y".

SPAB800: Special Access Basic 800 service allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAB800" on the TKGRP form).

SPAM800: MEGACOM 800 service is a discount service which allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAM800" on the TKGRP form). MEGACOM 800 service is similar to Special Access Basic 800 service except that the customer must supply the dedicated trunk group to the 5ESS Toll Switch.

STG1FCA: This value should be used for the first stage of a multi-stage international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. This Call Type may be assigned to incoming digit sequences 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.

VACANT: Attempts to dial codes defined as "VACANT" will result in vacant code treatment. In addition, ASP will consider these codes invalid pre-query.

Switch owners may need to define RNX codes that are considered "VACANT" in the normal dialing plan but are treated as "NORMAL" for purposes of ASP pre-query. For these codes, the user should receive "VACANT" code treatment if the number is dialed directly. To accomplish this, CALL TYPE should be set to "NORMAL" and the ROUTE INDEX set to the ROUTE INDEX from the FIXRT form (5301-1 Record) where the FIXED ROUTE TYPE is equal to "VACANT". To identify the RNX codes defined in this manner, it is recommended that the REMARK field should be set to "RNX VAC/ASP QRY".

4.6 RDIT

Description: Enter the Remaining Digits Interpreter Table number.

Software Release: 5E8 and later

Valid Entries: 1 - 999

Data Rules:

If RDIT is entered, RDIT and INCOMING DIGITS must equal RDIT and PREVIOUS DIGITS on an RDIT form.

4.7 TYPE OF CI CALL

Description: Enter the CI (Carrier Interconnect) type of call. See Figure 1 for appropriate entries per Call Type.

Valid TYPE OF CI CALL Entries	
Entry	Definition
COMP	Used for calls to a geographical area where the LEC (Local Exchange Carrier) and ICs (Inter-LATA Carriers) compete on an equal basis. Such calls must be routed by a carrier, but this "carrier" may be the LEC. If the

	subscriber wants to be routed via the LEC, the subscriber must either be presubscribed to the LEC or dial an explicit FGD CAC.
CONFL	Used for cases where the call may be either INTER (Inter-LATA) or INTRA (Intra-LATA), depending on the dialed prefix. Inter-LATA calls are dialed with a 1 prefix, while Intra-LATA calls are dialed with no prefix.
IDDD	Software Release: 5E12 and later. Used for International Direct Distance Dialing calls.
INTER	Used for calls destined for outside the LATA. Such calls must be routed via a carrier, not the LEC.
INTRA	Used for calls destined for within the LATA. Usually routed via the LEC. If other carriers are permitted and accept Intra-LATA calls, an explicit FGD CAC must be dialed (not presubscription) to access the carriers for these calls.
INTRM	Software Release: 5E8 and later. FGB Interim call is used for an incoming trunk call dialed by the originator as 950XXXX. The 950 digits are entered in the INCOMING DIGITS. The XXXX represents a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the INCOMING DIGITS. When "INTRM" is entered, the last four digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's FGB CDI and FGB RTI. Because "INTRM" is also a valid entry in the LDIT form, it may be optionally used instead of the INDIT form.
NONCI	Used for calls for which carrier selection is irrelevant.
PRIV	Used for EAS (Extended Area Service) calls where the local calling area extends into the neighboring LATA. These Inter-LATA calls are treated as INTRA (routed by the LEC) except when the subscriber explicitly dials an FGD CAC for an IC. When the FGD CAC is dialed, the call is treated as INTER.
PSCAR	Software Release: 5E3 and later. For packet switched calls, a Packet Switch INTERLATA Carrier call uses the preselected IECF (Interexchange Carrier). When using this type of CI Call, the CALL TYPE must be "NORMAL" or "900". For 5E11 and later, when TYPE OF CI CALL is "PSNCI" or "PSCAR" NBR OF DIGITS and PREFIX cannot be entered.
PSNCI	Software Release: 5E3 and later. For Packet Switching calls, Packet Switch non-carrier tandem traffic, where carrier interconnect does not apply. When using this type of CI call the CALL TYPE must be "NORMAL", "900" or "VACANT". For 5E11 and later, when TYPE OF CI CALL is "PSNCI" or "PSCAR" NBR OF DIGITS and PREFIX cannot be entered.
SAC	Used for SACs (Service Access Codes), e.g., 800 and 900 codes. Each six digit SAC code (800/900 + NXX) is assigned to a specific carrier. The Code Index and Route Index from this form, the LDIT, will be used to route the call. When this Type of CI Call is specified, the Carrier Identification must be entered in SAC OWNER. SAC may not be specified in an ambiguous case.
TCONF	Software Release: 5E9(1) and later. Intra-LATA toll conflict. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TCONF", a SFSYS form must exist with SFID 149 set to "Y".
TOLL	Software Release: 5E9(1) and later. Toll calls within the LATA. This entry supports the Intra-LATA capability. With TYPE OF CI CALL set to "TOLL", a SFSYS form must exist with SFID 149 set to "Y".
WZ1	Used for calls outside the continental United States, but within World Zone 1 (e.g., Canada).

Data Rules:

Packet Switching CI TYPEs ("PSCAR" and "PSNCI") cannot be mixed with non-Packet Switching CI TYPEs within a single DAS.

SAC When TYPE CI CALL is "SAC", CALL TYPE must be "900", "DA", "INWATS", "NORM555", or "NORMAL".

WZ1: All forms with CI TYPE equals "WZ1" which have the first three digits (that is, the NPA (Numbering Plan Area)) in the INC DIGITS fields must have the same value for WZ1 REG.

For 5E6 and later, this type of Carrier Interconnect is allowed on FAT/LDITs, however, instead of this value (WZ1) being related to the first three digits of INCOMING DIGITS, it is related to the FAT/LDIT table number.

For 5E8 and later,

- if CI TYPE is "PSCAR" or "PSNCI", TRIG NBR must not be entered, and
- if CI TYPE is "SAC", RDIT must not be entered.

For 5E9(1) and later, when CALL TYPE is "OSOIWTS", TYPE OF CI CALL must be "INTER", "INTRA", "NONCI", "TCONF, or "TOLL".

For 5E9(1) and later, when CALL TYPE is "LOCDA", "BUSOFC", or "REPAIR", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".

For 5E11 and later, if TYPE OF CI CALL is not "NORMAL" or "900", if RTI is entered, NXX cannot be entered.

For 5E12 and later,

when CALL TYPE is "IDDDSTS", TYPE OF CI CALL must be "NONCI" or "IDDD".

when CALL TYPE is "SPAB800", "SPAM800", or "IDDDFCA", TYPE OF CI CALL must be "NONCI".

when TYPE OF CI CALL in the CONFLICT RESOLUTION ENTRIES is "IDDD", the ACT field for SFID 325 on the SFSYS form (5713-1) must be set to "Y".

when TYPE OF CI CALL in the CONFLICT RESOLUTION ENTRIES is "IDDD", RDIT, NBR OF DIGITS and PREFIX must not be entered, and INCOMING DIGITS must begin with "01".

For 5E13 and later, when TYPE OF CI CALL is not "PSCAR", and ROUTE INDEX is entered and PORTED IN is "N", OFFICE CODE must not be entered for this CALL TYPE.

For 5E15 and later, when CONFRES.CALL TYPE is "BUSOFC", "LOCDA", "RELAY", or "REPAIR", CONFRES.CI TYPE must be "INTER", "INTRA", or "TOLL".

4.8 CDI

Description: The Code Index combined with a Screening Index is used as an input to the Rate and Route Tables. Code Index 1 (0-) and Code Index 2 (010) may not be entered on the LDIT Record.

For 5E8 and later, CODE INDEX is a real Code Index and no longer a pointer to the DISERV form (5321 Record).

Valid Entries: 3 - 4095

Data Rules:

This field must be blank if the CALL TYPE is "VACANT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN" or "CSTL".

All combinations of CODE INDEX, PREFIX from the PDIT form, and SCREENING INDEX from the LCC form must have corresponding RAR form entries for CDI, PFX, and SCR.

All combinations of CODE INDEX and SCR from the TKGRP form must have corresponding RAR form entries for CDI, SCR, and "NONE" for PFX.

For 5E8 and later, either CODE INDEX or CDI on this form or an RDIT form, or CODE INDEX on a PDIT or INDIT form, or WITH ANI or WITHOUT ANI on an AISCLS form must equal INC CDI on an INFLDEST form (5448 Record).

4.9 RTI

Description: This field indicates the Regular Route Index to be used for routing the call except when a Special Route Index entered on the RAR overrides it. The Regular Route Index is the route which is used by the majority of call originators to complete the call.

For 5E6 and later, the SSP/800 feature uses the RTI (or NXX) field when the SCP query response requests LEC routing, even when CI TYPE is "INTER".

For 5E8 and later, the ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

The CODE INDEX from this form must appear on a DISERV form (5321 Record) and if SERV TYPE is set to "NOQRY" on that DISERV form, then this ROUTE INDEX field must be entered. A SERV TYPE of "NOQRY" will occur at a NAP (Network Access Point) and the ROUTE INDEX must be entered to route to an SSP (Service Switching Point).

When the CALL TYPE is "VACANT", "HNPAD", "LTD", "APSDN", "SRTT", "OCTL" and "CSTL", this field must be blank.

When the Call Type is other than those listed above, this field or the OFFICE CODE field must be entered.

For 5E13 and later, when RTI is entered and PORTED IN is "N", NXX cannot be entered for this CALL TYPE.

4.10 FAT LDIT

Description: This field represent the Foreign Area Translations LDIT.

Software Release: 5E16(2) and later.

Valid Entries: 1 - 16382

4.11 POLY

Description: Is polygrid routing used for DSN (Defense Switched Networks)?

"N" should be entered for non-DSN offices.

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

For 5E11 and later, POLY must be "N" or not entered for Packet Switching.

4.12 NPA

Description: Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

When NPA is entered, NXX must be entered.

For 5E12 and later, when the NXX and/or NPA/NXX combinations are assigned on the LDIT and/or MLDIT forms, they must be defined on the NOC form.

4.13 NXX

Description: Enter an Office Code (NXX) served by the 5ESS Switch (i.e., defined on the NOC form). If an Office Code is entered, it will be entered to "route" the call to a Directory Number of this NXX in this office, except when overridden by a Special Route Index entered in the Route Index field of the RAR form.

For 5E6 and later, the SSP/800 feature uses the NXX (or RTI) field when the SCP query response requests LEC routing, even when CI TYPE is "INTER".

Data Rules:

When the CALL TYPE is "VACANT", "HNPAD", "LTD", "SRTT", "APSDN", "SPAB800", "SPAM800", "IDDDFCA", "IDDDSTS", "OCTL" and "CSTL", this field must be blank. When the Call Type is other than these, an entry is required in this field or in the ROUTE INDEX field.

For 5E12 and later, when the LDIT forms have a "CONFLICT RESOLUTION.NXX" defined in the rows indicated by NBR DIGS, and there are multiple NOC forms with the same value of NXX, "CONFLICT RESOLUTION.NPA" must also be defined in the same row on the LDIT form.

4.14 DESEP

Description: Enter the Destination Separations Index for calls other than "VACANT", "HNPAD", "LTD", "SRTT", "OCTL" or "CSTL". It is only required for Division of Revenue Study.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the 5308 Record.

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

4.15 WZ1 REG

Description: For codes with a TYPE OF CI CALL equal to WZ1, enter a World Zone 1 region. This digit is used in the first stage of outpulsing for INCs (International Carriers) on either a direct connection or via an Access Tandem. The first stage of outpulsing has a format of KP + 1NX + XXX + 01R + ST, where R is the

World Zone 1 region. (1NX is a spare toll center code entered on the Route Index as prefix digits. XXX is the Carrier Identification Code.) For other than WZ1 types, leave this field blank.

Valid Entries: 0 - 9

4.16 TERM LATA

Description: This field is used as the Inter-LATA Carrier when Network Call Denial Screening is required on incoming CAMAANI Trunk Groups. The TERM LATA value is compared to an ORIG LATA value specified on the TKGRP form (5202-3 Record).

Valid TERM LATA Entries	
Entry	Definition
1	Indicates LATAs not subtending the switch
2 - 31	Software Release: 5E5 and later. Indicates a subtending LATA of the switch.

Data Rules:

If TYPE OF CI CALL field is "PSNCI" or "PSCAR", then this field must be blank.

If CALL TYPE is "LNACP", this field must be blank.

If TERM LATA is specified, COMMON CHAN SIG must equal to "Y" on the OFCOPT form (5509 Record).

When the Call Type is "NORMAL", "AUTINW", "OPINW" or "DA", enter an appropriate value to indicate, based on incoming digits, the destination of this call.

4.17 NON

Description: Enter the nature of the number. This field is used during query formulation of Network Services calls, and is populated only for ASP SSP offices.

Software Release: 5E8 and later

Valid Entries:

Valid NON Entries	
Entry	Definition
IDDD or I	International.
NATL or N	National.
PRIV or P	Private.

Data Rules:

6For 5E8, if NON is entered, TRIG NBR must be entered for the same entry.

When ASP OFC on OFCOPT is "SSP", and TRIG NBR is entered, and APPLICATION on the corresponding NSTRIG form is "ASP", NON must be entered.

4.18 TRIG NBR

Description: Enter the Network Services trigger number.

Software Release: 5E8 and later

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

Data Rules:

If TRIG NBR is entered:

- it must equal TRIG NBR on an NSTRIG form,
- if NBR DIG is neither 7 nor greater than 9, and SERV KEY on the corresponding NSTRIG form is "CDPN", then on that NSTRIG form APPLICATION equals "ASP" and ALT GBL TITLE must be entered;
- if APPLICATION on the corresponding NSTRIG form is "E911", CALL TYPE must be "EMER" and CI TYPE must be "INTRA";
- for 5E8 only, if ASP OFC on an OFCOPT form is "SSP", and APPLICATION on the corresponding NSTRIG form is "ASP", NON must be entered.

For 5E8 and later, if a CONFLICT RESOLUTION ENTRY with a CALL TYPE of "EMER" or "NORMAL" is entered, a TRIG NBR defined on an NSTRIG form, and APPLICATION on the NSTRIG form is "E911" or "800", then RTI and NXX on the LDIT form cannot be entered. If APPLICATION on the NSTRIG form is "ASP", then RTI or NXX on the LDIT form must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.

For 5E12 and later, when CONFLICT RESOLUTION ENTRY, TRIG NUM on the LDIT/MLDIT forms is entered and the associated NSTRIG form with the same TRIG NUM has an APPLICATION of "ASP", then INCOMING DIGITS on the LDIT/MLDIT forms must have a first digit of "2", "3", "4", "5", "6", "7", "8", or "9".

For 5E15 and later, when CONFRES.CALL TYPE is "RELAY", CONFRES.TRIG NBR must not be entered.

4.19 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Default: N

Valid Entries: Y, N

4.20 SAC OWNER

Description: For codes with a TYPE OF CI CALL equal to "SAC", enter the Carrier Identification Code of the carrier "owning" the Service Access Code, or "LEC" for a Local Exchange Carrier. The ICF form (5305 Record) will be accessed to check the validity of the Carrier ID and to determine if overlap outpulsing might be required. However, routing will be done based on the Code Index and Route Index of the LDIT, not the ICF.

Valid Entries:

For 5E8 only: 0 - 999 or "LEC"

For 5E9(1) and later: 0 - 9999 or "LEC"

Data Rules:

For CONFLICT RESOLUTION ENTRY, when CI TYPE is "SAC", SAC OWNER must be entered. And conversely, if CI TYPE is not "SAC", SAC OWNER cannot be entered.

If SAC OWNER or CONFLICT RESOLUTION SAC OWNER is assigned on the LDIT form, then they must be

defined as CARRIER IDs on an ICF form with FEAT GRP = "D".

For 5E11 and later, when CI TYPE is not "NORMAL" or "900", if RTI is entered, NXX cannot be entered.

4.21 DFLT RT

Description: The DFLT RT field is used to identify the type of default routing treatment to be used for the ASP Default Routing for 3/6/10-Digit Triggers (Phase 1) Special Feature. When the ASP Special Feature has been purchased, this field can be used to specify the type of default routing to occur when an ASP specific digit trigger query fails.

Software Release: 5E9(1) and later

Default: NONE

Valid Entries:

Valid DFLT RT Entries	
Entry	Definition
ANNC or A	Default route to announcement (or tone). The call will route to either a tone or announcement, depending on what is defined for the route.
DLDN or D	Default route to dialed DN. The call will route to the DN dialed (or the DN being routed to if the call came from a trunk).
NONE or N	No default routing. No special default routing will take place, and normal call treatment will send the call to reorder or NCA (No Circuits Available).

Data Rules:

When DFLT RT is not "NONE", either "TRIG NBR" or "LNP TRIG NBR" must be entered.

For 5E10 and later, when the MLDIT forms have a DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

4.22 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later

Default Value: N

Valid Entries: Y, N

5. FORM ENTRIES - 5300-5b RECORD

5.1 BASE AND CONTROL, ESS UNIT

Description: Enter the Base and Control Number and the office name on each record.

CONFLICT RESOLUTION

Description: Conflict Resolution entries are only entered on the LDIT form.

5.2 LDIT

Description: Enter the Local Digit Interpreter Table number. The LDIT must be the same as that from the corresponding 5300-3 Record entry.

Valid Entries: 1 - 999

5.3 INC DIGITS

Description: Enter the code for which the conflict exists. This must be the same as the INCOMING DIGITS of the Conflict Code on the 5300-3 Record. This information is not required as a separate entry on the LDIT form.

Valid Entries: 1 to 15 digits

LOCAL NUMBER PORTABILITY

For 5E11 and later, fields (Section 5.4) - (Section 5.9) support the Local Number Portability feature. For more information, see Division 2, Section 4A174.

5.4 LNP TRIG NBR

Description: Enter the LNP trigger number. The LNP trigger number is a conditional trigger which initiates a query to the SCP (Service Control Point) based on further routing determinations and checks following the trigger detection.

Software Release: 5E11 and later

Required Field.

Default: IGN

Valid Entries: IGN (ignore), or 1 - 255

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be entered on either an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form.

When LNP TRIG NBR is entered, TYPE OF CI CALL must be:

- "INTER"
- "INTRA"
- "TOLL"
- "COMP"
- "PRIV"
- "NONCI"
- "TCONF"
- or "CONFL".

When both LNP TRIG NBR and TRIG NBR are entered either on an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form, TRIG NBR must be defined as TRIG NBR (whichever is entered) on the NSTRIG form (5324 Record) which has APPLICATION set to "ASP".

When LNP TRIG NBR is entered either on an LDIT/MLDIT form or CONFLICT RESOLUTION on an LDIT form, LNP TRIG NBR must be defined as TRIG NBR on the NSTRIG form (5324 Record) where APPLICATION is "ASP" and AIN REL is "R0D1".

For 5E12 and later, when CONFRES.LNP TRIG NUM on the LDIT/MLDIT forms is entered and the associated

NSTRIG form with the same TRIG NUM has an APPLICATION of "ASP", then INCOMING DIGITS on the LDIT/MLDIT forms must have a first digit of "2", "3", "4", "5", "6", "7", "8", or "9".

For 5E13 and later, when LNP TRIG NBR or CONFRES.LNP TRIG NBR is entered, TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form (5713-1 Record) is set to "Y".

5.5 GEO PORT

Description: Has geographically porting occurred for at least one DN associated with this LDIT entry?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When GEO PORT is "Y", LNP TRIG NBR must be entered.

5.6 PORTED IN

Description: Is at least one DN termination in this office which is associated with this LDIT digit translation have a route index (instead of an office code) that is provisioned for this LDIT translation?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be entered on either an LDIT/MLDIT form or, CONFLICT RESOLUTION on an LDIT form.

When PORTED IN is "Y", TYPE OF CI CALL must be:

- "INTER"
- "INTRA"
- "TOLL"
- "COMP"
- "PRIV"
- "NONCI"
- "TCONF"
- or "CONFL".

When PORTED IN is "Y", ROUTE INDEX must be entered.

When PORTED IN is "Y", OFFICE CODE must be entered.

For 5E13 and later, when PORTED IN or CONFRES.PORTED IN is "Y", TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form (5713-1 Record) is set to "Y".

5.7 HOME LRN

Description: Is this a home location routing number? This field is set to "Y" when the LRN represents this switch or a rate center in this switch.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

5.8 LRN SCRIN

Description: Should the screening attributes be used for LRN? This field is set to "Y" when the LRN is a rate center in this switch which would imply that the TYP CI CALL and CDI from analysis of this LRN should be used.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

5.9 INH DNT

Description: Should the processing of dialed number triggers be inhibited?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

5.10 GETS HPC

Description: Is GETS (Government Emergency Telecommunication Service) HPC (High Probability Call Completion Service) required? The GETS HPC field is used as an indicator to mark GETS HPC calls so that enhanced functionality provided by other HPC capabilities (e.g., Trunk Queuing, ISUP Signaling, Exemption from Network Management Controls) can be invoked. When set to "Y", calls translated to this address receive special treatment resulting in a higher probability of call completion. For more information, see Division 2, Section 4A279.

The use of HPC Network Capabilities is restricted in the United States and U.S. Territories to National Security/Emergency Preparedness (NS/EP) users authorized by the Office of the Manager, National Communication System (OMNCS). Telco deployment of these HPC Network Capabilities must be co-ordinated with the OMNCS at the following address:

Office of the Manager
National Communication System
Attn: GETS Program Office
701 South Courthouse Rd
Arlington, VA, 22204-2198
email: gets@ncs.gov

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When GETS HPC in CONFLICT RESOLUTION ENTRIES is "Y"

- NBR DIG must be 10.
- CALL TYPE must be "NORMAL".
- CI TYPE must be "COMP", "CONFL", "INTER", "INTRA", "NONCI", "PRIV", "SAC", "TCONF", "TOLL", or "WZ1".

5.11 DENY XFER

Description: This field is used to indicate if call transfers to a particular digit string should be denied.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later, when DENY XFER in CONFLICT RESOLUTION ENTRY (CONFRES) is "Y", CALL TYPE must be "EMER".

For 5E14 and later, for each row of the CONFLICT RESOLUTION ENTRIES (CONFRES) list, when DENY XFER is "Y", CALL TYPE must not be "EMER".

5.12 NPA SPLIT ANNC

Description: Should caller be given a warning announcement if dialing a 7-digit or 10-digit number during permissive period of NPA (Numbering Plan Area) Split?

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NPA SPLIT ANNC in CONFLICT RESOLUTION ENTRIES is "Y", NBR DIG must be "7" or "10".

5.13 REL LINK

Description: Is this a release link directory assistance number? This field is used to indicate whether or not the digits being translated map to a release link directory assistance number.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For each row of the CONFLICT RESOLUTION ENTRIES (CONFRES) list, when REL LINK is "Y":

CALL TYPE must be "DA", "LOCDA", "NORM555", or "NORMAL".

One of the following two conditions must exist:

For the Release Link for Toll Office feature using ANSI (American National Standards Institute) standard signaling, the ACT field for SFID 520 on the SFSYS form (5713-1 Record) must be set to "Y"; or

For the Release Link for Toll Office feature using TOPS (Operating System for DMS (Data Management System)) nonstandard signaling, the ACT field for SFID 521 on the SFSYS form must be set to "Y".

CALL TYPE	NBR OF DIGITS	TYPEs OF CI CALL	CODE INDEX	ROUTE INDEX	OFFICE CODE	DESEP
100	3 or 6	NONCI	required	optional	optional	
101	3 or 6	NONCI	required	optional	optional	
101R	3 or 6	NONCI	required	optional	optional	
101TAT	6 or 9	NONCI	required	optional	optional	
101TP	5 or 8	NONCI	required	optional	optional	
102	3 or 6	NONCI	required	optional	optional	
103	3 or 6	NONCI	required	optional	optional	
104	3 or 6	NONCI	required	optional	optional	
104R	3 or 6	NONCI	required	optional	optional	
105	3 or 6	NONCI	required	optional	optional	
105R	3 or 6	NONCI	required	optional	optional	
106		NONCI	required	optional	optional	
109R	3 or 6	NONCI	required	optional	optional	
606R	3 or 6	NONCI	required	optional	optional	
900	10	any (usually SAC)	required	optional	optional	
		PSCAR	blank	blank	blank	
ADDON		NONCI	optional	required		
APSDN	3, 7, or 10	NONCI	blank	blank	blank	
AUTINW	6 to 11	any but TRANS or SAC	required	required		
BBRITL	7	NONCI	blank	blank	blank	blank
BRITL	3 or 7	NONCI	blank	blank	blank	blank
BUSOFC	3	INTRA INTER TOLL	required	required for ROUTE INDEX or OFFICE CODE		
CONFLCT	7 or 10	blank	blank	blank	blank	blank
CSTL	3	NONCI	blank	blank	blank	blank
DA	7	any but TRANS	required	optional	optional	
ECP	1 - 15	NONCI	blank	blank	blank	blank
DA2VDT	10	any (except SAC)	required	optional	optional	
EMER	3	INTRA	required	optional	optional	
FAT	blank	blank	blank	blank	blank	blank
HNPAD	1 - 15	NONCI	blank	blank	blank	blank
IC1 to IC33	5	NONCI	required	optional	optional	
IDDDFCA	7 to 14	NONCI	required	required	blank	
IDDDSTS	6	NONCI	required	required	blank	

INV		NONCI	required	optional	optional	
INWATS	10	any (usually SAC)	required	optional	optional	
LNACP	3	NONCI	blank	blank	blank	blank
LOCDA	3	INTRA INTER TOLL	required	required for ROUTE INDEX or OFFICE CODE		
LTD	3	NONCI	blank	blank	blank	blank
MEETME		NONCI	optional	required		
NINV		NONCI	required	optional	optional	
NORMAL	3, 7, or 10	any	required	optional		
		PSCAR	blank	blank	blank	blank
NS800	10	NONCI	blank	blank		
OCTL	3	NONCI	blank	blank	blank	blank
OPINW	6 to 11	any but TRANS or SAC	required	required		
OPNIT	10	any (except SAC)	required	optional	optional	
OSOIWTS	10	NONCI, INTER, INTRA, NONCI, TCONF, or TOLL	optional	optional	optional	optional
PB	3	NONCI	required	optional	optional	
QUERY	3, 7, or 10	INTRA or NONCI	required	optional	blank	blank
REPAIR	3	INTRA INTER TOLL	required	required for ROUTE INDEX or OFFICE CODE		
SD	7 or 10	NONCI	required	required		
SDNE	7 or 10	NONCI	required	optional	optional	
SPAM800	3, 7, or 10	NONCI	required	required		
SRTT	7	NONCI	blank	blank	blank	blank
STG1FCA	3 or 6	NONCI	blank	blank	blank	blank
SYN	3	NONCI	required	optional	optional	
VACANT	3, 7, or 10	NONCI or PSNCI	blank	blank		
WETESTC	7 or 10	NONCI	allowed	allowed	allowed	allowed

Figure 1 CALL TYPE DEPENDENCIES

STORED PFX (LDIT)	NBR OF DIGITS (LDIT)	DIALED PREFIX	CONFLICT RESOLVED BY
NONE	1 - 15	NONE	Prefix
		1+	Timing
		0+	Timing
1+	1 - 15	NONE	Timing
		1+	Prefix
		0+	Timing
0+	1 - 15	NONE	Timing
		1+	Timing
		0+	Prefix
NULL	1 - 15	NONE	Prefix
		1+	Prefix
		0+	Timing
NULL	NULL	any	Timing

Figure 2 TDAC CODE CONFLICT RESOLUTION TABLE

EXAMPLE 1: Two conflict case - Two conflict resolution entries. 7/10 digit conflict for code 416.

PFX ASSIGNED (LDIT)	NBR OF DIGITS (LDIT)	PFX DIALED	NBR DIGITS DIALED	CONFLICT RESOLUTION	RESULTING CALL TREATMENT

NONE	7	NONE	7	PREFIX	1
NONE	7	1+/0+	7	TIMING	1
NONE	7	NONE	10	PREFIX	2
NONE	7	1+/0+	10	TIMING	3
NONE	10	NONE	7	PREFIX	4
NONE	10	1+/0+	7	TIMING	1
NONE	10	NONE	10	PREFIX	3
NONE	10	1+/0+	10	TIMING	3

EXAMPLE 2: General conflict case - more than 2 conflict resolution entries.

6/7/10 digit conflict for code 416.

PFX ASSIGNED (LDIT)	NBR OF DIGITS (LDIT)	PFX DIALED	NBR DIGITS DIALED	CONFLICT RESOLUTION	RESULTING CALL TREATMENT
NONE	6	NONE	6	PREFIX	5
NONE	6	NONE	7/10	PREFIX	6
NONE	6	1+/0+	7/10	TIMING	1
NONE	7	NONE	6	PREFIX	7
NONE	7	NONE	7	PREFIX	1
NONE	7	1+/0+	7	TIMING	1
NONE	7	NONE	10	PREFIX	2
NONE	7	1+/0+	10	TIMING	3
NONE	10	NONE	6/7	PREFIX	4
NONE	10	1+/0+	7	TIMING	1
NONE	10	NONE	10	PREFIX	3
NONE	10	1+/0+	10	TIMING	3

Figure 3 TDAC CODE CONFLICT RESOLUTION TABLE EXAMPLES

CALL TREATMENTS:

1. Treatment based on 7 digit conflict entry.
2. Results in either misrouted call or vacant number error treatment. Since conflict is prefix resolved, call processing collects quantity of digits specified in NBR OF DIGITS field (first 7 digits in this case). Hence if 416-220-1000 is dialed, call processing would attempt termination to 416-2201.
3. Treatment based on 10 digit conflict entry.
4. Partial dial error treatment. Since conflict is prefix resolved, call processing collects quantity of digits specified in NBR OF DIGITS field (10 digits in this case). However, fewer than 10 digits are dialed.
5. Treatment based on 6 digit conflict entry.
6. Results in either misrouted call or vacant number error treatment. Since conflict is prefix resolved, call processing collects quantity of digits specified in NBR OF DIGITS field (first 6 digits in this case). Hence if 416-xxxx or 416-xxx-xxxx is dialed, call processing would attempt termination to 416-xxx.
7. Partial dial error treatment. Since conflict is prefix resolved, call processing collects quantity of digits specified in NBR OF DIGITS field (7 digits in this case). However, only 6 digits are dialed.

```
ldit                                5ESS Switch
SCREEN 1 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
```

*1. LDIT	_____	13. PREFIX	_____
*2. INCOMING DIGITS	_____	14. WZ1 REGION	_____
3. CALL TYPE	NORMAL	15. TERM LATA	_____
4. TYPE OF CI CALL	_____	16. SAC OWNER	_____
5. NBR OF DIGITS	_____	17. NATURE OF NBR	_____
6. RDIT	_____	18. TRIG NBR	_____
7. CODE INDEX	_____	19. ESC CODE	N
8. ROUTE INDEX	_____	20. DFLT RT	NONE
9. POLYGRID	N	21. INH OBL	N
10. NPA	_____	22. INH ONA	N
11. OFFICE CODE	_____	23. ANI BYPASS	N
12. DESEP	_____	24. REMARK	_____

```
ldit                                5ESS Switch
SCREEN 2 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
```

25. NPA SPLIT ANNC N	LOCAL NUMBER PORTABILITY	35. NODAL IDX	_____
26. IMPLIED NPAs	29. LNP TRIG NBR	36. DN PREFD	N
ROW PREFIX NPA	30. GEO PORT	37. GETS HPC	N
1	31. PORTED IN	38. DENY XFER	N
2	32. HOME LRN	39. REL LINK	N
3	33. LRN SCREENING		
	34. INH DNT		N

```
ldit                                5ESS Switch
```

SCREEN 3 OF 11
(5300-3/3b/5)

OFFICE DATA ADMINISTRATION
LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

ROW	DIG	CALL	CI	WZ1	TERM	TRIG								
1	—	—	—	—	—	—								
ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL		
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ROW	PREFD	HPC	DN	GETS	DENY	REL	NPA
1	—	—	—	—	—	—	—
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC	
1	—	—	—	—	—	—	

ldit

5ESS Switch

SCREEN 4 OF 11
(5300-3/3b/5)

OFFICE DATA ADMINISTRATION
LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

ROW	DIG	CALL	CI	WZ1	TERM	TRIG								
2	—	—	—	—	—	—								
ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL		
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—

ROW	PREFD	HPC	DN	GETS	DENY	REL	NPA
2	—	—	—	—	—	—	—
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC	
2	—	—	—	—	—	—	

ldit 5ESS Switch
 SCREEN 5 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM	TRIG	
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DN	GETS	DENY	REL	NPA									
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC								
3	—	—	—	—	—	—								

ldit 5ESS Switch
 SCREEN 6 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM	TRIG	
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DN	GETS	DENY	REL	NPA									
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC								
4	—	—	—	—	—	—								

ldit 5ESS Switch
 SCREEN 7 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM		TRIG
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	DN	GETS	DENY	REL	NPA	
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC
5	—	—	—	—	—	—

ldit 5ESS Switch
 SCREEN 8 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM		TRIG
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
6	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
6	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	DN	GETS	DENY	REL	NPA	
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC
6	—	—	—	—	—	—

ldit 5ESS Switch
 SCREEN 9 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM		TRIG
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	ESC	DFLT	INH	INH	SAC	ANI	LNP		GEO	PORTED	HOME	LRN	INH	NODAL
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	DN	GETS	DENY	REL	NPA	
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC
7	—	—	—	—	—	—

ldit 5ESS Switch
 SCREEN 10 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

	NBR	CALL		CI							WZ1	TERM		TRIG
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	ESC	DFLT	INH	INH	SAC	ANI	LNP		GEO	PORTED	HOME	LRN	INH	NODAL
ROW	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	DN	GETS	DENY	REL	NPA	
ROW	PREFD	HPC	XFER	LINK	SPLIT	ANNC
8	—	—	—	—	—	—

ldit 5ESS Switch
 SCREEN 11 OF 11 OFFICE DATA ADMINISTRATION

(5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

40. CONFLICT RESOLUTION ENTRIES (CONFRES)

ROW	NBR	CALL	CI	WZ1	TERM	TRIG							
DIG	TYPE	RDIT	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR
9	—	—	—	—	—	—	—	—	—	—	—	—	—

ROW	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL
CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX
9	—	—	—	—	—	—	—	—	—	—	—	—	—

ROW	DN	GETS	DENY	REL	NPA
PREFD	HPC	XFER	LINK	SPLIT	ANNC
9	—	—	—	—	—

Figure 4 SAMPLE LDIT FORM 5E14 THROUGH 5E15 SOFTWARE RELEASES

ldit 5ESS Switch
 SCREEN 1 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

*1. LDIT	_____	13. DESEP	_____
*2. INCOMING DIGITS	_____	14. PREFIX	_____
3. CALL TYPE	NORMAL	15. WZ1 REGION	_____
4. TYPE OF CI CALL	_____	16. TERM LATA	_____
5. NBR OF DIGITS	_____	17. SAC OWNER	_____
6. RDIT	_____	18. NATURE OF NBR	_____
7. CODE INDEX	_____	19. TRIG NBR	_____
8. ROUTE INDEX	_____	20. ESC CODE	N
9. FAT LDIT	_____	21. DFLT RT	NONE
10. POLYGRID	N	22. INH OBL	N
11. NPA	_____	23. INH ONA	N
12. OFFICE CODE	_____	24. ANI BYPASS	N

ldit 5ESS Switch
 SCREEN 2 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

25. REMARK	_____	LOCAL NUMBER PORTABILITY	36. NODAL IDX	_____
26. NPA SPLIT ANNC	N	30. LNP TRIG NBR	_____	37. DN PREFD
			N	

27. IMPLIED NPAs	31. GEO PORT	N	38. GETS HPC	N
ROW PREFIX NPA	32. PORTED IN	N	39. DENY XFER	N
1 _____	33. HOME LRN	N	40. REL LINK	N
2 _____	34. LRN SCREENING	N		
3 _____	35. INH DNT	N		

```
ldit                                5ESS Switch
SCREEN 3 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
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                                41. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL          CI          FAT          WZ1 TERM
ROW DIG TYPE      RDIT TYPE  CDI   RTI   LDIT POLY NPA NXX DESEP REG LATA NON
1  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _
      TRIG ESC  DFLT INH INH SAC   ANI    LNP      GEO  PORTED HOME LRN  INH
ROW NBR  CODE RT   OBL ONA OWNER BYPASS TRIG NBR PORT IN    LRN  SCR N DNT
1  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      NODAL DN      GETS DENY REL  NPA
ROW IDX  PREFD HPC  XFER LINK SPLIT ANNC
1  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

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ldit                                5ESS Switch
SCREEN 4 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
```

```

                                41. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL          CI          FAT          WZ1 TERM
ROW DIG TYPE      RDIT TYPE  CDI   RTI   LDIT POLY NPA NXX DESEP REG LATA NON
2  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _
      TRIG ESC  DFLT INH INH SAC   ANI    LNP      GEO  PORTED HOME LRN  INH
ROW NBR  CODE RT   OBL ONA OWNER BYPASS TRIG NBR PORT IN    LRN  SCR N DNT
2  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      NODAL DN      GETS DENY REL  NPA
ROW IDX  PREFD HPC  XFER LINK SPLIT ANNC
2  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

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```
ldit                                5ESS Switch
SCREEN 5 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
```

	NBR CALL		CI				FAT				WZ1 TERM			
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT
3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NODAL	DN	GETS	DENY	REL	NPA								
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC							
3	—	—	—	—	—	—	—							

```
ldit                                5ESS Switch
SCREEN 6 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                       LOCAL DIGIT INTERPRETER TABLE
```

	NBR	CALL		CI				FAT				WZ1	TERM		
ROW	DIG	TYPE		RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP		GEO	PORTED	HOME	LRN	INH	
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN		LRN	SCRN	DNT
4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NODAL	DN		GETS	DENY	REL	NPA								
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC								
4	—	—	—	—	—	—	—								

```
ldit                                5ESS Switch
SCREEN 7 OF 11                      OFFICE DATA ADMINISTRATION
(5300-3/3b/5)                      LOCAL DIGIT INTERPRETER TABLE
```

	NBR CALL		CI		FAT				WZ1 TERM					
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH	
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NODAL	DN	GETS	DENY	REL	NPA								
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC							

41. CONFLICT RESOLUTION ENTRIES (CONFRES)															
NBR CALL			CI			FAT				WZ1 TERM					
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON	
6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ROW	NBR	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH		
	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT		
6	—	—	—	—	—	—	—	—	—	—	—	—	—		
ROW	IDX	NODAL	DN	GETS	DENY	REL	NPA								
		PREFD	HPC	XFER	LINK	SPLIT	ANNC								
6															

41. CONFLICT RESOLUTION ENTRIES (CONFRES)														
	NBR CALL		CI		FAT						WZ1	TERM		
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO		PORTED	HOME	LRN	INH
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	NODAL	DN	GETS		DENY	REL	NPA							
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC							
7	—	—	—	—	—	—	—							

[illegible]

TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH		
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NODAL	DN	GETS	DENY	REL	NPA		
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC
8	—	—	—	—	—	—	—

ldit 5ESS Switch —
 SCREEN 11 OF 11 OFFICE DATA ADMINISTRATION
 (5300-3/3b/5) LOCAL DIGIT INTERPRETER TABLE

41. CONFLICT RESOLUTION ENTRIES (CONFRES)

NBR	CALL	CI	FAT	WZ1	TERM									
ROW	DIG	TYPE	RDIT	TYPE	CDI	RTI	LDIT	POLY	NPA	NXX	DESEP	REG	LATA	NON
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TRIG	ESC	DFLT	INH	INH	SAC	ANI	LNP	GEO	PORTED	HOME	LRN	INH		
ROW	NBR	CODE	RT	OBL	ONA	OWNER	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT
9	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NODAL	DN	GETS	DENY	REL	NPA		
ROW	IDX	PREFD	HPC	XFER	LINK	SPLIT	ANNC
9	—	—	—	—	—	—	—

Figure 5 SAMPLE LDIT FORM 5E16 AND LATER SOFTWARE RELEASES

SCREEN 1 OF 3 5ESS Switch
 mldit OFFICE DATA ADMINISTRATION
 (5300-3) MULTIPLE LOCAL DIGIT (OFFICE DIALING)

*1. LDIT 001

INCOMING DIGITS - OPTIONAL RANGE ON LAST 3 DIGITS

*2. _____	—	_____	12. _____	—	_____
4. _____	—	_____	14. _____	—	_____
6. _____	—	_____	16. _____	—	_____
8. _____	—	_____	18. _____	—	_____
10. _____	—	_____	20. _____	—	_____

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SCREEN 2 OF 3                                5ESS Switch
mldit                                OFFICE DATA ADMINISTRATION
(5300-3)                        MULTIPLE LOCAL DIGIT (OFFICE DIALING)

22. CALL TYPE          NORMAL                35. NATURE OF NBR _____
#23. TYPE OF CI CALL  _____            36. TRIG NBR          _____
#24. NBR OF DIGITS    _____            37. ESC CODE         N
25. RDIT              _____            38. DFLT RT          NONE
26. CODE INDEX        _____            39. INH OBL          N
27. ROUTE INDEX        _____            40. INH ONA          N
28. POLYGRID          N                    41. ANI BYPASS       N
29. NPA                _____            42. REMARK            _____
30. OFFICE CODE        _____
31. DESEP              _____
32. WZ1 REGION         -
33. TERM LATA          _____
34. SAC OWNER          _____

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SCREEN 3 OF 3                                5ESS Switch          _
mldit                                OFFICE DATA ADMINISTRATION
(5300-3)                        MULTIPLE LOCAL DIGIT (OFFICE DIALING)

LOCAL NUMBER PORTABILITY                49. NODAL IDX _
43. LNP TRIG NBR  _____            50. DN PREFD  N
44. GEO PORT      N                    51. GETS HPC  N
45. PORTED IN     N                    52. DENY XFER N
46. HOME LRN      N
47. LRN SCREENING N
48. INH DNT       N

```

Figure 6 SAMPLE MLDIT FORM 5E13 SOFTWARE RELEASE

```

SCREEN 1 OF 3                                5ESS Switch
mldit                                OFFICE DATA ADMINISTRATION

```

(5300-3) MULTIPLE LOCAL DIGIT (OFFICE DIALING)

*1. LDIT 001

INCOMING DIGITS - OPTIONAL RANGE ON LAST 3 DIGITS

*2. _____	-	_____	12. _____	-	_____
4. _____	-	_____	14. _____	-	_____
6. _____	-	_____	16. _____	-	_____
8. _____	-	_____	18. _____	-	_____
10. _____	-	_____	20. _____	-	_____

SCREEN 2 OF 3

5ESS Switch

mldit

OFFICE DATA ADMINISTRATION

(5300-3)

MULTIPLE LOCAL DIGIT (OFFICE DIALING)

22. CALL TYPE	NORMAL	35. NATURE OF NBR	_____
#23. TYPE OF CI CALL	_____	36. TRIG NBR	_____
#24. NBR OF DIGITS	_____	37. ESC CODE	N
25. RDIT	_____	38. DFLT RT	NONE
26. CODE INDEX	_____	39. INH OBL	N
27. ROUTE INDEX	_____	40. INH ONA	N
28. POLYGRID	N	41. ANI BYPASS	N
29. NPA	_____	42. REMARK	_____
30. OFFICE CODE	_____		
31. DESEP	_____		
32. WZ1 REGION	_____		
33. TERM LATA	_____		
34. SAC OWNER	_____		

SCREEN 3 OF 3

5ESS Switch

mldit

OFFICE DATA ADMINISTRATION

(5300-3)

MULTIPLE LOCAL DIGIT (OFFICE DIALING)

LOCAL NUMBER PORTABILITY		49. NODAL IDX	_____
43. LNP TRIG NBR	_____	50. DN PREFD	N
44. GEO PORT	N	51. GETS HPC	N
45. PORTED IN	N	52. DENY XFER	N

46.	HOME LRN	N	53.	REL LINK	N
47.	LRN SCREENING	N			
48.	INH DNT	N			

Figure 7 SAMPLE MLDIT FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 3D: 5300-4 RECORD CODE CONVERSION FORM - CONV

1. GENERAL

The 5300-4 Record is available with 5E2 and later Software Releases, and is used to associate a Local Digit Interpreter Table call type with a code conversion number.

Whenever a code is dialed which is defined in the Local Digit Interpreter Table with a call type of "LOCDA", "REPAIR", "BUSOFC" or "EMER", the 5ESS Switch will substitute the digits dialed with the Code Conversion Number entered on this form. This substitution is performed after digit interpretation is complete. The Code Conversion digits are not re-interpreted and the Code Index provided by the original dialed digits is used for screening. All Local Digit Interpreter entries with the above call types require a corresponding code conversion entry, whether the code conversion number is the same as or different from the dialed code.

1.1 Foreign Area Translator

For 5E6 and later, operating companies can make use of a FAT (Foreign Area Translator) LDIT during digit analysis. The FAT/LDIT performs further digit analysis on LDITs (5300-3 Records) that are interpreting common dialed or in-pulsed digit strings. Code conversion call types are not allowed to be assigned on FAT/LDITs. For more information concerning the implementation and use of the FAT/LDIT, see Division 2, Section 1AO.

1.2 Recent Change View

The corresponding Recent Change view for this form is 9.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number, office name and page number on each record.

2.2 * DAS

Description: Enter the Digit Analysis Selector number. The DAS is defined on the 5300-1 Record.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

2.3 * CALL TYPE

Description: Enter the Call Type associated with the Dialed Digits to be converted.

Required Field.

Valid CALL TYPE Entries	
Entry	Definition
BUSOFC	Business Office
EMER	Emergency Service Bureau

LOCDA	Local Directory Assistance
RELAY	Relay
REPAIR	Repair

Data Rules:

Code conversion CALL TYPES which are used on the LDIT/MLDIT (5300 Record) forms that also have OFFICE CODE entered must have a corresponding entry on the CONV form. An entry on the DAS form is necessary to make this correspondence.

For 5e15 and later, code conversion CALL TYPEs "BUSOFC", "EMER", "LOCDA", "RELAY", or "REPAIR" which are used on the LDIT/RDIT/MLDIT forms that also have OFFICE CODE entered must have a corresponding entry on the CONV form. An entry on the DAS form is necessary to make this correspondence.

For 5E15 and later, CALL TYPE can be set to "RELAY" only if the ACT field for SFID 594, on the SFSYS form is set to "Y".

2.4 # CONV TN

Description: Enter the number to which the service access code is to be converted. Normally, three, seven, or ten digits are appropriate.

Valid Entries: 3 - 10 digits

2.5 RMK

Description: This field may contain any remarks deemed locally necessary.

Valid Entries: 16 characters

2.6 # DA CONV TN

Description: Should digit analysis be performed on this converted TN? This field is added to support the Code Conversion Expansion for N11 (99-5E-7878) feature. See Division 2, Section 4A594 for more information.

Default: N

Valid Entries: Y, N

When DA CONV TN is "Y", CALL TYPE must be "RELAY".

```

conv                               5ESS Switch
5300-4                             OFFICE DATA ADMINISTRATION
                                   CODE CONVERSION

```

- * 1. DAS _____
- * 2. CALL TYPE _____
- 3. CONV TN _____
- 4. RMK _____

Figure 1 SAMPLE CONV FORM 5E5 - 5E14 SOFTWARE RELEASES

```

conv                                5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5300-4)                          CODE CONVERSION

*1. DAS      _____
*2. CALL TYPE _____
#3. CONV TN   _____
  4. RMK      _____
  5. DA CONV TN N

```

Figure 2 SAMPLE CONV FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 3E: 5300-6 RECORD CARRIER DESTINATION MAPPING FORM - CDIM

1. GENERAL

The 5300-6 Record is applicable to 5E2 and later Software Releases and defines carrier specific Code Indexes and Routes Indexes for the CI (Carrier Interconnect) capability.

This record is used in two cases. If the office is an AT (Access Tandem), this Record defines the carrier specific Code Indexes and Route Indexes for all carriers the AT is tandeming calls to from EAEOs (Equal Access End Offices). In the second case, an EAEO uses this Record to obtain carrier-specific Code Indexes and Route Indexes for any carrier that has DIG ROUTING equal to "Y" on the ICF form (5305 Record).

1.1 Access Tandem Offices

For Access Tandem offices, the CDIM Form is checked whenever the INDIT form has an entry of "INC" or "AVT" in the TYPE OF CI CALL. The Code Index from the INDIT entry plus the Carrier Identification Number impulsed from the EAEO are the keys to the CDIM Form where the carrier specific Code Index and Route Index outputs for the RAR form (5301 Record) are found. Every valid combination of INDIT Code Index with "INC" or "AVT", and Carrier Identification Numbers which are valid for this AT must be entered on this form.

1.2 Equal Access End Offices

For the EAEO using the CDIM Form instead of, or in addition to, the ICF Form for a carrier, CDIM entries are keyed by Code Indexes found in the regular digit analysis forms, PDIT, LDIT, and IDDD.

If the carrier's specific Code Index/Route Index pairs are entered on the ICF Form, the CDIM Form will be used for exception cases when DIG ROUTING equals "Y" on the ICF Form. In this case, the ICF pair is selected first, based on the type of CI call. Then, when an entry is found for the call on the CDIM, the CDIM carrier-specific Code Index/Route Index pair overrides the ICF pair. If an entry is not found on the CDIM, the ICF pair is used.

Code Indexes found on the digit analysis forms (PDIT, LDIT and IDDD) are candidates for entry on the CDIM Form. For each Code Index found on those forms, where the TYPE OF CI CALL is "CONFL", "INTER", "WZ1", "PRIV", or "COMP", that Code Index may be entered in the first field of this form. If the carrier accepts IntraLATA or Cut Through calls as indicated on the carrier's ICF Form, then the Code Indexes for "INTRA" or "CICUT" may be entered. If the carrier is a CARRIER TYPE of "CONSOL", then the Code Index from the IDDD Forms may be entered. If the carrier has an ACCESS TYPE of "BOTH", then the Code Index for "TRANS" may be entered.

If the carrier's specific Code Index/Route Index pairs are not entered on the ICF Form, then all possible digit analysis Code Indexes, which may be used for this carrier as outlined above, must be entered on the CDIM Form.

1.3 Long Distance Carriers

If the CDIM Form is being used for the carrier which is providing long distance service before Carrier Interconnect, the population of the CDIM is very specific. For those Types of CI Call which are applicable to this carrier, the Code Index is entered on the CDIM. Initially, the Carrier Code Index is identical to the Code Index, and the Carrier Route Index is the same as the Route Index appearing with the Code Index assigned in the digit analysis forms. This match ensures calls continue to be translated and routed the same as they were before the Carrier Interconnect application. Then the Carrier Code Index and Carrier Route Index

entries can be changed on a per digit analysis Code Index basis to accomplish a gradual transition to Equal Access signaling. It also allows for transition when the 5ESS Switch is homed on more than one toll switch of this carrier.

1.4 Recent Change View

The corresponding Recent Change View for this form is 9.7.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CODE INDEX

Description: Enter the Code Index assigned in the regular digit analysis forms.

Valid Entries: 1 - 4095

2.3 * CARRIER ID

Description: Enter the InterLATA Carrier ID.

Valid Entries:

5E7 and earlier: 0 - 999

5E8:

0 - 999 for Feature Group D

0 - 9999 for Feature Group B

5E9(1) and later: 0 - 9999

Data Rules:

With 5E4 - 5E7, this CARRIER ID must not be equal to any CARRIER ID on the ICF form (5305 Record) , where a corresponding CARRIER TYPE equals "PSEUDO".

For 5E8 and later, this CARRIER ID, with FEAT GRP equals "D", must not be equal to any CARRIER ID on the ICF form (5305 Record) , where a corresponding CARRIER TYPE equals "PSEUDO", and the ICF form's FEAT GRP equals "D".

2.4 * FEAT GRP

Description: Enter the Feature Group type. See Division 2, Section 1AY for a description of Feature Groups B and D.

Software Release: 5E8 and later

Required Field.

Valid Entries:

Valid FEAT GRP Entries	
Entry	Definition
B	Feature Group B
D	Feature Group D

Data Rules:

For 5E8, when FEAT GRP is "D", CARRIER ID must be 0 - 999. For 5E9(1) and later, when FEAT GRP is "D", CARRIER ID must be 0 - 9999.

2.5 CARRIER CODE INDEX

Description: The name of this field was changed to CARRIER CDI in 5E8. This field name applies to 5E7 and earlier. See CARRIER CDI for usage information.

2.6 # CARRIER CDI

Description: Enter the Carrier Code Index assigned to this carrier call. (This field was called CARRIER CODE INDEX for 5E7 and earlier).

Required Field.

Valid Entries: 1 - 4095

Data Rules:

For 5E8 and earlier, for non-DSN offices, CARRIER CDI must equal a CDI on an RAR form.

2.7 CARRIER ROUTE INDEX

Description: The name of this field was changed to CARRIER RTI in 5E8. This field name applies to 5E7 and earlier. See CARRIER RTI for usage information.

2.8 # CARRIER RTI

Description: Enter the Carrier Route Index assigned to this call. An entry here is considered the Regular Route Index and is used if the entry found in the RAR form has ROUTE INDEX equal to "REGL". A Special Route Index may be entered in the RAR form which would override this entry, the CARRIER ROUTE INDEX. (This field was called CARRIER ROUTE INDEX for 5E7 and earlier).

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.9 REMARKS

Description: Enter any comments deemed locally necessary.

Valid Entries: up to 16 characters

cdim
(5300-6)

5ESS Switch
OFFICE DATA ADMINISTRATION
CARRIER DESTINATION MAPPING

*1. CODE INDEX 0013

*2. CARRIER ID 0823
*3. FEAT GRP B
#4. CARRIER CDI 0027
#5. CARRIER RTI 0159
6. REMARKS CARRIER X ROUTE

Figure 1 SAMPLE CDIM FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 3F: 5301 RECORD RATE AND ROUTE FORM - RAR

1. GENERAL

The 5301 Record, available for 5E2 and later Software Releases, is used to define the routing and charging for each Code Index and Screening Index combination in a 5ESS Switch. The 5301 is intended to be used as an office record and as a source document for data entry into the RAR ODA Input Form.

The Screening Index and Code Index create a matrix for routing and charging which is represented on the 5301 Record. A Screening Index is associated with an originating class of service (Line Class Code for lines or Trunk Group Record for trunks) and is used as an index into the Rate and Route Tables. A Code Index is associated with dialed digits (Local Digit Interpreter for lines or Incoming Digit Interpreter for trunks) and is also used as an index into the Rate and Route Tables.

The output from the Rate and Route Record is a Charge Index and a Route Index. These two indexes are selected based on the prefix dialed (no prefix, 1+ prefix or 0+ prefix). Thus, the 5301 Record allows for three distinct Charge Index and Route Index combinations for routing and charging.

During call processing, the Route Index and Charge Index are known after the appropriate Rate and Route entry is read. However, the Route Index may not always be specifically found in the Rate and Route. The Regular Route Index is found in the digit analysis entry and will be used if the Rate and Route entry is "REGL". If the Regular Route Index is inappropriate for the type of originator or for the prefix type, then a Special Route Index should be entered in the Rate and Route form to override the Regular Route Index. Thus, the Rate and Route form is used primarily for screening and to output the specific Charge Index. For additional information see "Revised Routing and Screening for 5E2 Software Release" in Division 2, Section G of this guide.

All possible Screening Index and Code Index combinations should be entered on the 5301 Record. Code indexes 1 and 2 have special applications in the 5ESS Switch. Code Index 1 is used for all 0- calls; Code Index 2 is used for 010 (IDDD operator) calls.

The screening index used with the OSO-INWATS feature (ORIG SCREEN OFF field is "Y" on the OFCOPT form), will be calculated by adding 100 to the screening index associated with the incoming trunk group.

For OSPS offices, each RAR form must have a corresponding OSPS Rate and Route (ORAR) form (5405 Record) with matching values for SCR, CDI and PFX. For the CACD (Commerical Automatic Call Distribution) feature, the RAR form is used to detect a free call to a CACD agent (charge index is "FREE") or to determine if routing data would, if used, lead to INWATS data and a simulated facilities group.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.10.

2. FORM AND RECORD ENTRIES

2.1 * SCR

Description: Enter the Screening Index number.
Valid Entries: 1 - 4095

2.2 * CDI

Description: Enter the Code Index number.

Code indexes 1 and 2 have special applications in the 5ESS Switch. For line originations, Code Index 1 is used for all 0- calls; Code Index 2 is used for 010- IDDD Operator calls. These Code Indexes (1 and 2) must be defined by the Operating Company.

For the SSP/800 feature in 5E6 and later, when LEC routing is specified in an NS800 routing response, and CI TYPE (on the LDIT form) is "INTER" for digits matching the translated 800 number, this CDI field matches the NS CDI specified in the ICF form.

Valid Entries: 1 - 4095

2.3 * RAX

Description: This field is used for routing and charging.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.4 EXC RAR

Description: This field indicates whether or not Exception tuples exist. This is a display only field.

Software Release: 5E16(2) FR 5 and later

2.5 PFX

Description: The 5ESS Switch provides routing and charging based on the Prefix dialed. Enter the applicable prefix.

Valid PFX Entries	
Entry	Definition
NONE	No prefix is dialed.
0	0 prefix is dialed.
1	1 prefix is dialed.

Data Rules:

When the Screening Index is referenced from the TKGRP form, the only required prefix entry is "NONE". 0-calls use a "NONE" PFX entry. Prefix entries of 0 and 1 are optional.

When the Screening Index is referenced from the LCC form, entries are usually required for all three prefix cases: "NONE", 0, and 1. This is determined by the existence of code indexes from one or more PDIT, LDIT or IDDD forms and prefix entries from any PDIT Forms which are associated with this Screening Index. Any allowed combination of code index and prefix determines this requirement.

2.6 RTI

Description: For each prefix ("NONE", 0, or 1) which is to use the Regular Route Index or the 5ESS Switch Office Code found in digit analysis, enter "REGL". If the call should terminate to a Route Index other than the Regular Route Index, or terminate to a Route Index instead of the 5ESS Office Code, enter that Special Route Index.

NOTE: Because the valid range is being reduced with the 5E3 Software Release, a warning message will appear on the ODA screen when a value greater than 3617 is used for the 5E2 Software Release.

Valid Entries:

For 5E10 and earlier: REGL, or 1 - 3617

For 5E11 and 5E12: REGL, or 1 - 4095

For 5E13 and later: Blank, REGL, or 1 - 16382

For 5E16(2) and later, Blank, REGL, OPER/EMER, or 1 - 16382

Data Rules:

If a Special Route Index is entered, it will override the Route Index or Office Code found in digit analysis. For calls which are to be rerouted to the originator's Terminal Group attendant (i.e., the TDV field equals "ATT"), leave this field blank.

2.7 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

2.8 NXX

Description: An entry in this field is used only if it is necessary to override a 5ESS Switch Office Code entered in digit analysis with another 5ESS Switch Office Code. An Office Code means an NXX code served by this office and defined on the NOC Form.

For 5E3 and later, the format for an Office Code is XXX, where X is a number from 0 - 9.

Valid Entries: 3 digits

Data Rules:

If an NXX is entered, an entry in RTI is prohibited.

For 5E12 and later, if the RAR forms have a "SCRNDATA.NXX" defined in the rows indicated by PFX and there are multiple NOC forms with the same value for NXX, "SCRNDATA.NPA" will also have to be defined in the same row on the RAR form.

For 5E12 and later, when the NXX and/or NPA/NXX combinations are assigned on the RAR form, they must be defined on the NOC form.

2.9 CHGI

Description: For each Prefix ("NONE", 0, 1), enter the Charge Index number to be used for charging.

NOTE: Because the valid range is being reduced with the 5E3 Software Release, a warning message will appear on the ODA screen when a value greater than 2047 is used for the 5E2 Software Release.

Valid Entries:

For 5E2 only: 1 - 4095

For 5E3 and later: 1 - 2047

2.10 TDV

Description: Enter the Toll Diversion requirements.

Valid TDV Entries	
Entry	Definition
ATT	Reroute the call to the attendant of the originator's Terminal Group.
RVB	Return reverse battery on the line toward the PBX. For toll diversion to take place in the case of "RVB", the Line Class Code of the originator must have a Class Of Service of "HOTPBX" or "PBX", and the PBX must be equipped to recognize the battery reversal. The PBX may allow the call to continue and therefore C BLK in this case should equal "N".
N	No diversion is required.

Data Rules:

If "ATT" is entered, the RTI and NXX fields must be blank, and C BLK must be "Y".

If "ATT" is entered, the terminals (lines or trunks) which are assigned to the associated Screening Index must be members of a BRCS Terminal Group (i.e., the terminal must have a TGSR feature assigned on its LINEFA, MLHLNFA, TKGRPFA, or TRUNKFA form.) Additionally, a TGATTD form (5611 Record) must be entered which indicates the attendant's Telephone Number to which this call will be rerouted.

2.11 CST

Description: Enter the Class of Service Tone. If a tone is entered, that tone will be given to the distant end upon answer condition. A tone might be applicable when the termination is to a non-TSPS operator, to alert the operator to a separate Class of Service.

Default: N

Valid Entries:

Valid CST Entries	
Entry	Definition
H	High Tone
L	Low Tone
N	No Tone

2.12 IECR

Description: Should a special two digit ANI information number be outpulsed on the Trunk Group? This field is used for IECR (Inter-exchange Carrier Restriction), which is also known as non-payer screening. The far end should be an OS (Operator Service) facility equipped for long term OS signaling, so it can recognize the special ANI information digits as an indication the call originator is a non-payer.

Valid Entries: Y, N

2.13 C BLK

Description: C BLK (Carrier Block) is used in conjunction with LINE SCREENING on the LCC form. When Line Screening is "Y", and the call is a carrier call, the RAR entry associated with the regular digit analysis forms (PDIT, LDIT and IDDD) is used first.

Valid Entries: Y, N

If C BLK is "Y", the call will be processed based on entries on this form as follows:

RTI	Call Treatment
REGL	REORDER
Blank	REORDER (assuming OFFCOD is also blank)
Non-zero	Routing based on non-zero RTI

If C BLK is "N", then call processing will read the RAR entry for the Carrier Specific Code Index.

In addition to the LINE SCREENING field being set to "Y" on the LCC form (5306 Record), LINE SCREENING may be set to "Y" on a per carrier call basis under one of the following conditions:

- 10 digits are dialed without a 1 or 0 prefix.
- 7 digits are dialed.
- The LCC has a Class of Service equal to "CHGCALL", and the ICF (InterLATA Carrier Feature) form for the Carrier has CAC SCREENING equal to "Y".

2.14 RMK

Description: This field may contain any Remarks deemed locally necessary.

Valid Entries: 1 - 16 characters

2.15 NONE CONF

Description: The NONE CONF field is used to specify the none prefix conflict resolution identification value. This field supports the Inter-LATA Carrier's Intra-LATA Capability Special Feature. For more information on this feature see Division 2, Section 4A149.

Software Release: 5E9(1) and later.

Valid Entries:

Valid NONE CONF Entries	
Entry	Definition
I	INTER - Interlata traffic only
T	TOLL - Toll calls

Data Rules:

The NONE CONF, ZERO PLUS CONF and ONE PLUS CONF fields on the RAR form are used by the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office before these fields can be entered. A SFSYS form must exist with SFID 149 set to "Y".

2.16 ZERO PLUS CONF

Description: The ZERO PLUS CONF field is used to specify the zero plus prefix conflict resolution identification value. This field supports the InterLATA Carrier's Intra-LATA Capability Special Feature. For more information on this feature see Division 2, Section 4A149.

Software Release: 5E9(1) and later.

Valid Entries:

Valid ZERO PLUS CONF Entries	
Entry	Definition
I	INTER - Interlata traffic only
T	TOLL - Toll calls

Data Rules:

When ZERO PLUS CONF is entered, "0+" must be a Prefex.

The NONE CONF, ZERO PLUS CONF and ONE PLUS CONF fields on the RAR form are used by the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office before these fields can be entered. A SFSYS form must exist with SFID 149 set to "Y".

2.17 ONE PLUS CONF

Description: The ONE PLUS CONF field is used to specify the one plus prefix conflict resolution identification value. This field supports the InterLATA Carrier's Intra-LATA Capability Special Feature. For more information on this feature see Division 2, Section 4A149.

Software Release: 5E9(1) and later.

Valid Entries:

Valid ONE PLUS CONF Entries	
Entry	Definition
I	INTER - Interlata traffic only
T	TOLL - Toll calls

Data Rules:

When ZERO PLUS CONF is entered, "0+" must be a Prefix.

The NONE CONF, ZERO PLUS CONF and ONE PLUS CONF fields on the RAR form are used by the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office before these fields can be entered. A SFSYS form must exist with SFID 149 set to "Y".

rar		5ESS Switch		—				
(5301)		OFFICE DATA ADMINISTRATION						
		RATE AND ROUTE						
* 1. SCR _____								
* 2. CDI _____								
	4.	5.	6.	7.	8.	9.	10.	11.
field 3	PFX	RTI	NXX	CHGI	TDV	CST	IECR	C BLK
row 1	_____	_____	_____	_____	_____	—	—	—
2	_____	_____	_____	_____	_____	—	—	—
3	_____	_____	_____	_____	_____	—	—	—
12. RMK _____		13. NONE CONF		—				
		14. ZERO PLUS CONF		—				
		15. ONE PLUS CONF		—				

Figure 1 SAMPLE RAR FORM 5E11 AND EARLIER SOFTWARE RELEASES

rar		5ESS Switch		—	
(5301)		OFFICE DATA ADMINISTRATION			
		RATE AND ROUTE			

*1. SCR _____
*2. CDI _____

3. SCRNDATA

ROW	PFX	RTI	NPA	NXX	CHGI	TDV	CST	IECR	BLK	CONF
1	_____	_____	_____	_____	_____	_____	—	—	—	_____
2	_____	_____	_____	_____	_____	_____	—	—	—	_____
3	_____	_____	_____	_____	_____	_____	—	—	—	_____

14. RMK _____

Figure 2 SAMPLE RAR FORM 5E12 THROUGH 5E16(1) SOFTWARE RELEASES

```

rar                                5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5301)                            RATE AND ROUTE

```

*1. SCR _____ 16. RMK _____
 *2. CDI _____
 3. RAX _____
 EXC RAR _

5. SCRNDATA

	C									
ROW	PFX	RTI	NPA	NXX	CHGI	TDV	CST	IECR	BLK	CONF
1	_____	_____	_____	_____	_____	_____	-	-	-	_____
2	_____	_____	_____	_____	_____	_____	-	-	-	_____
3	_____	_____	_____	_____	_____	_____	-	-	-	_____

Figure 3 SAMPLE RAR FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3G: 5301-1 RECORD FIXED ROUTE TYPE FORM - FIXRT

1. GENERAL

The 5301-1 Record is available with 5E2 and later Software Releases and is used to define Routing and Charging treatment of Fixed Route Types.

Various routing conditions may be encountered in the processing of a call, e.g., permanent signal, partial dial, etc. The terminating treatment of these types of calls are user defined. If one of these conditions can be encountered during call processing, then the associated Fixed Route Type must be defined by the Telephone Company as terminating to either a tone, an announcement, or a trunk group. Generally, most of the Fixed Route Types will be required for all offices. When Software Release and other restrictions are applicable, they will be noted with the description of each Fixed Route Type.

1.1 Announcements or Trunk Group Assignments

A Fixed Route Type that is assigned to an announcement or a trunk group must have a route index and a charge index assignment. Fixed Route Types that are assigned a Tone Type of "REORDER" must also have a route index and a charge index assignment. Route index and charge index assignments are prohibited for all other Fixed Route Types. In addition, the route index on a Fixed Route Type that is assigned a TONE TYPE of "REORDER" must contain a ROUTE TYPE of "REORDER" on the RTIDX form (5303 Record).

Since there are no route indexes with predefined meanings in the 5ESS Switch, the TELCO may select any available route index number. However, it is recommended that the first 100 route indexes (1 - 100) be reserved for Fixed Route Type assignments.

1.2 Tone Source

All tones are supplied by the UTG (Universal Tone Generator) Service Circuit. UTG Circuits are provided in the Local Digital Service Unit.

1.3 DSN Offices

For DSN (Defense Switched Network) Offices, where DSN OPT is "Y" on the OFCOPT form, FIXRT forms must be defined for the following FIXED ROUTE TYPES: "DSNICA", "PPBPC", "PPBPR", "PPUAP", "PPPAL", and "PPVAC". For 5E7 and later, each of these forms must have TONE? set to "N" and TONE TYPE blank.

In addition, a fixed route of "PPNAV" must be defined where, for 5E7 and later, either TONE? is "N" and TONE TYPE is blank, or TONE? is "Y" and TONE TYPE is "PRMPTON".

1.4 Recent Change View

The corresponding Recent Change View for this form is 10.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * FIXED ROUTE TYPE

Description: Enter the Fixed Route Type.

An entry of "ACSR" is necessary to use the Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback) Secured Feature Announcements. Refer to Division 2, Section 4A for details.

Valid FIXED ROUTE TYPE Entries	
Entry	Definition
10XXERR	Software Release: 5E7 and earlier. Routes to tones or announcements for calls in which 10XXX was dialed, but 9501XXX should have been dialed.
2LEVEL	Software Release: 5E7 and later. Routes to LASS COT (Customer Originated Trace) and LASS AC (Automatic Callback) announcements given by the DSU2-RAF-DTA (Digital Service Unit Model 2 - Recorded Announcement Function - Dial Through Announcement).
950ERR	Software Release: 5E7 and earlier. Routes to tones or announcements for calls in which 9501XXX was dialed but call should have been dialed with the 10XXX prefix. (See "OEASERR" for 5E8 and later.)
ACSR	Software Release: 5E5 and later. Automatic Customer Station Rearrangement. Routes to the ACSR announcements given by the DSU2-RAF-DTA.
ACT	Alternative Code Treatment announcement. Used when the ACT Set of an IDP Group has an Announcement Treatment.
ACTUCR	Software Release: 5E6 and later. Routes to an announcement when UCR (Unidentified Call Rejection) has been activated by means of a dial code.
AL2LVL	Software Release: 5E8 and later. LASS Alternate announcement 2 level for DSU2-RAF announcements. "AL2LVL" and "ALSLE" support the Alternate Language LASS Announcement secured feature. For more information on this feature, see Division 2, Section 4A119.
ALSLE	Software Release: 5E8 and later. LASS Alternate announcement SLE DSU2-RAF routing. "AL2LVL" and "ALSLE" support the Alternate Language LASS Announcement secured feature. For more information on this feature, see Division 2, Section 4A119.
ANSTO	Routes to a tone or announcement for timeouts while awaiting an answer on FGD International or FGB calls.
APT	Automatic Progression Testing. Routes outgoing operational test calls initiated from TLWS or by APT.
ATCANIF	Software Release: 5E4(2) and later. Alliance Teleconferencing® routes to tones or announcements for calls experiencing ANIF (Automatic Number Identification Failure). The TCA (Telephone Company Administrator) may choose to send it to an announcement for reorder tone on a 13A announcement unit.
ATCINT	Software Release: 5E4(2) and later. Alliance Teleconferencing® routes to an intercept announcement. The exact treatment will be provided by the TCA, but routing to a 13A announcement unit is expected.
BADDATA	Routes to tone or announcement when routing couldn't be completed because of bad data.
BLANK	Software Release: 5E6 and later. Blank number intercept. Routes to tone or announcement for attempting to terminate to a vacant number. This fixed route type is used if the NOC is not defined in an office, and therefore a BLANK NUMBER RTI cannot be found.
BUSY	Software Release: 5E6 and later. Routes to a 60 IPM busy tone or sends a release message over an ISUP7 (ISDN User Part 7) trunk that crosses a network boundary. When "BUSY" is entered, the PLAY ANNC field determines whether the busy tone is played or the ISUP7 message is sent to a previous switch.

	This fixed route should also be defined for offices in the LEC Network. This fixed route is used to provide treatment for calls forwarded over ISUP trunks that terminate to a BUSY station.
CAC	Routes to a tone or announcement for invalid calls from a Charge-A-Call line.
CALLBACK	IMLT-2 callback route.
CAMAONI	Centralized Automatic Message Accounting Operator Number Identification. Routes to CAMA operator keying trunk group.
CFVACT	Software Release: 5E10 and earlier Call Forward already activated. Note that this field is not allowed for 5E11 and later.
CGC	Software Release: 5E3 and later. Routes to tones or announcements when a CGC (Circuit Group Congestion) backward fail message is received on a CCS (Common Channel Signaling) trunk.
CSACT	Software Release: 5E16 and later. FCCS (Forwarded Call - Call Screening) activation announcement. See Division 2, Section 4A526.
CSDCT	Software Release: 5E16 and later. FCCS deactivation announcement. See Division 2, Section 4A526.
CSFAIL	Software Release: 5E16 and later. FCCS unassigned or failure announcement.
CSTL	Coin Station Test Line. Routes to first available member of a trunk group containing outgoing LTD (Local Test Desk) test trunk circuits wired to CSTL. Used for CSTL test calls originating from coin lines.
CWDBUSY	Software Release: 5E9(1) and later. Provides Call Waiting Deluxe Busy Announcement. For more information on the Call Waiting Deluxe Secured Feature, see Division 2, Section 4A145
CWDDFANC	Software Release: 5E10 and later. Provides Call Waiting Deluxe Default Announcement. For more information on the Call Waiting Deluxe Secured Feature, see Division 2, Section 4A145
CWDHOLD	Software Release: 5E9(1) and later. Provides Call Waiting Deluxe Hold Announcement. For more information on the Call Waiting Deluxe Secured Feature, see Division 2, Section 4A145.
CWDREMDR	Software Release: 5E10 and later. Provides Call Waiting Deluxe Reminder Announcement. For more information on the Call Waiting Deluxe Secured Feature, see Division 2, Section 4A145
DCOFHK	Routes to a tone or announcement when no second start dial wink has been received on a direct trunk from an InterLATA carrier.
DCTUCR	Software Release: 5E6 and later. Routes to an announcement when UCR (Unidentified Call Rejection) has been deactivated by means of a dial code.
DFLTFAIL	Software Release: 5E5 and later. Routes to reorder or announcements (error treatment) for denied calls made on an ISDN BRI line with default service.
DFLTRT	Software Release: 5E9(1) and later. ASP Default Routing for 3/6/10-Digit Triggers.
DGRES	Routes to TTF responder used by Line Unit Channel Circuit and Trunk Diagnostics to define TTF responders.
DGTGEN	Routes to TTF Tone Generator used by Line Unit Channel Circuit and Trunk Diagnostics to define TTF Tone Generators.
DPAT	Dialing Plan Access Treatment error announcement. Used when an originator in an IDP dials a code prohibited by its DPAT code.
DSNICA	Software Release: 5E3 and later. Routes to the DSN (Defense Switched Network) Isolated Code Announcement for Network Management.
EA1	Routes to Emergency Announcement 1 for NDC (Network Data Collection) OS (Operations System) or NTM (Network Traffic Management) OS.
EA2	Routes to Emergency Announcement 2 for NDC OS or NTM OS.
ELSRESP	Software Release: 5E3 and later. Routes to TTF responder used by the ELS capability to periodically determine the loaded/non-loaded characteristics of lines terminated on a Line Unit. ELSRESP is required for

	any analog line on any unit (except ISLC). This will include LU, ISLU, and AIU.
ESMRT	Equal Access Signaling Mis-route for the IEC (Interexchange Carrier) switch. Used when the wrong information digits are received from an Equal Access End Office on either a direct trunk or via an Access Tandem.
HNPAD	Routes calls when the HNPA was dialed in error.
HOSTSA	Routes calls which would normally terminate on an RSM (Remote Switching Module) of this office, but cannot because the communication link has been lost, between the host and the RSM. (The call is not originating in the RSM). Usually routed to an announcement in the host office. This Fixed Route Type is required for offices with RSMs.
IC102	Routes to a 102 Test Line for the No. 2 Service Evaluation system.
ICROTL	Routes an incoming call to ROTL on a foreign exchange line from a nearby Central Office. Used only for toll and tandem offices which have no Directory Numbers.
ICSRTT	Incoming Station Ringer Touch Tone test.
ICTSTCL	Software Release: 5E3 and later. Routes incoming Transmission Test Calls on CCS trunks.
IDPERR	IDP error announcement. Used when an originator in an IDP dials an undefined code.
IECFail	Routes to a tone or announcement when a termination failure occurred during signaling.
INSID	Routes coin calls where insufficient initial coin deposit is received.
INTTF	Interactive test access from TLWS (Trunk And Line Work Station).
INV10XX	Routes for the following FGD CAC dialing errors: —An IEC Identification Number was dialed on an international call; —An International Carrier Identification Number was dialed on a domestic call. —Software Release: 5E8 and earlier: An unassigned carrier ID was dialed.
INVCAC	Software Release: 5E9(1) and later. Routes FGD carrier calls if 101 is not dialed by a user in an office where FGD PHASE equals "POSTPHASE" (see the OFCOPT form (5509 Record)).
INVDIG	Provides tone or announcement treatment when invalid digits are dialed. The fixed Route Type is set to INVDIG when an invalid digit string containing a "#" or "*" is received during digit reception on a line or trunk.
INVNODIG	Routes to a tone or announcement when an invalid number of digits are received from an InterLATA carrier.
INVPIC	Routes to a tone or announcement for calls from lines with a PIC (Pre-subscribed InterLATA Carrier) when the following error conditions exist: —The PIC is an International Carrier, but a domestic call was dialed; —The PIC was an IEC, but an international call was dialed.
ISTFLB	Software Release: 5E3 and later. Routes to a test line service of the ISTF (Integrated Services Test Facility) Loopback.
ISTFXMIT	Software Release: 5E3 and later. Routes to a transmission test service of the ISTF.
LOOP	Routes to Local Coin Overtime Prompt.
MISRLRN	Misrouted LRN (Location Routing Number). For 5E13 and later, provides announcement or tone routing when cause code 26 is received in a CCS RELease message for misrouted LRN.
NCA	Routes to National Congestion Announcement (or No Circuits Available) for NDC OS or NTM OS.
NCC	Software Release: 5E6 - 5E8 only. No circuit to Carrier announcement. Routes to a special tone or announcement when a trunk to an IEC is not available.
NCD	Network Call Denial. Used when NCD Screening results in a message from the Network Control Point/Signal Transfer Point that the originator is a non-payer of the IEC.
NNC	Software Release: 5E3 and later. Routes to tones or announcements when a National Network Trunk Congestion message is received on a CCS trunk.
NO10XX	Routes FGD CAC dialed calls with the following error conditions: —The call is intraLATA, but the carrier is interLATA; —An FGD CAC was dialed for a Service Access Code call; —An FGD CAC was dialed on an N11 (other than 911) call; —The line is not allowed to dial an FGD CAC; —An FGD CAC was dialed for a Transition (TRANS) call.

NO911	Routes to tone or announcement for offices not providing 911 Emergency Services. This entry is not used and is no longer required.
NOACK	Routes to a tone or announcement when no acknowledging wink has been received from a carrier.
NODLTN	Indicates that no dial tone could be applied to the originator due to unavailability of switch resources (e.g., a UTG). Normally routed to an unavailable resources announcement, or a local overload announcement.
NOSSD	Routes to a tone or announcement when no second start dial wink has been received from an International Carrier.
NOSTART	Routes to a tone or announcement when no start signal has been received from a carrier.
NOXMTR	Routes calls when no transmitter (UTG) is available for outpulsing.
NPA_SP	Software Release: 5E13 and later. Numbering Plan Split Announcement.
NSANNC	Software Release: 5E6 and later. Number Services Announcement. Routes to the Advanced Services Platform announcements given by the DSU2-RAF-DTA.
NWBLK	Network blocked. Routes calls between two SMS when the path through the TMS is blocked.
OEASERR	Software Release: 5E8 and later. Operator equal access signaling error.
OGTG DST	Software Release: 5E16(2) and later. Terminal maintenance test calls requiring GDSF test equipment.
OGTRANS	Outgoing transmission test calls.
OLSPD	Software Release: 5E4(2) and later. Routes to a tone or announcement for 1+ calls from stations denied sent paid DDD billing.
OSANITO	Routes to a tone or announcement when a timeout occurs while waiting for an Automatic Number Identification request from an Operator Facility.
OSPSDA	Software Release: 5E3 and later. Routes to an OSPSDA announcement given by the DSU2-RAF.
OSPSEIS	Software Release: 5E6 and later. OSPS External Information System. Routes to OSPS Listing Services announcements given by the DSU2-RAF. This routes via the trunk hunt mechanisms to an idle RAF port from a trunk group defined on the TKGRP form.
OTOTTF	Software Release: 5E3 and later. Office-to-Office Transmission Test Facility. Routes to a TTF tone decoder during Office-to-Office testing of lines being transferred from a Crossbar Switch or ESS Switch to the 5ESS Switch. The tone decoder is used to detect traffic busy test blockage conditions on the line under test. This value is not required if the Switch has no lines or if the Switch being replaced is a Step-by-Step Switch. Otherwise, this value is required.
OVLD	Routes calls denied due to system overload.
PCPDENY	Software Release: 5E7 and later. Route used for announcements when attempting to use per-call privacy and use of per-call privacy has been denied.
PDIAL	Provides partial dial tone or announcement routing treatment.
PERMSIG	Provides permanent signal tone or announcement routing.
PFXERROR	1+ prefix not permitted. Provides tone or announcement routing when the calling party dials a prefix when it should be omitted. Not currently used.
PFXREQD	For 5E11 and 5E12, provides announcement or tone routing when cause code 26 is received in a CCS RELease message for misrouted LRN (Location Routing Number). Otherwise, unused.
PPBPC	Precedence and Preemption Blocked Precedence. Associated with an AUTOVON (Automatic Voice Network) or DSN. Routes to an announcement when a precedence call with equal or higher precedence prevents a call from being completed.
PPBPR	Precedence and Preemption Blocked Preemption. Associated with an AUTOVON or DSN. Routes to an announcement when a non-preemptable call prevents completion of a precedence call.
PPNAV	Precedence and Preemption Non-AUTOVON. Used to provide treatment to a non-AUTOVON subscriber when the call with an AUTOVON subscriber has been preempted so that a priority government call can be completed. (The AUTOVON subscriber receives preemption tone which requires no FIXRT Type.) Normally sent to an announcement.
PPPAL	Software Release: 5E3 and later. Routes to an announcement when a call is blocked due to the precedence access threshold limit

	being exceeded.
PPUAP	Precedence and Preemption Unauthorized Precedence. Associated with an AUTOVON or DSN. Routes to an announcement when a caller is attempting to make a call with an unauthorized precedence level.
PPVAC	Precedence and Preemption Vacant Code. Associated with an AUTOVON or DSN. Routes to an announcement when a call can't be completed as dialed.
RASI	Software Release 5E8 and later. Provides routing for the Remote Access to Advanced Service Interface feature.
REORDER	Reorder Tone or announcement.
REQ10XX	Routes to tone or announcement for calls requiring an FGD CAC but the FGD CAC was not dialed.
REVOHANN	Software Release 5E9(1) and later. Provides routing to a tone or announcement when a terminating multi-party line goes off-hook after being rung back due to Multi-Party Revertive Ringing. Available for the REA Revertive Announcement feature. This feature allows the 5ESS Switch to provide an announcement instead of busy tone before revertive ringing when a Multi-Party subscriber calls a number on the same party line.
REVRBANN	Software Release 5E9(1) and later. Provides routing to a tone or announcement when an originating multi-party line is going to be rung back due to Multi-Party Revertive Ringing. Available for the REA Revertive Announcement feature.
ROACCS	Software Release: 5E4(2) and later. OSPS ACCS (Automated Calling Card Service).
ROAOC	Software Release: 5E6 and later. Route to OSPS MECH announcements.
ROCOIN	Software Release: 5E4(2) and later. OSPS Coin DSU2 (Digital Service Unit Model 2) Routing.
RMSA	RSM/ORM/TRM - Stand-Alone. This Fixed Route Type is required if the Stand-Alone call processing option has been purchased for any Remote Site. Routes calls originated at the RSM/ORM/TRM when the RSM/ORM/TRM is in Stand-Alone call processing mode and the destination of the call is outside of the Remote Site. It is usually routed to an announcement at the Remote Site.
RTGTRBL	Indicates that an indeterminate internal call handling failure has occurred. Must be routed to an announcement trunk group (TRK DIR field on TKGRP form equal to "ANN") or to Reorder.
S96CTST	TTF used by the SLC96 Channel Unit Diagnostic capability.
SCD	Software Release: 5E5 and later. Routes to a tone or announcement for calls blocked by SCD (Selective Carrier Denial) screening which is a function of the SCD feature.
SEC	Software Release: 5E3 and later. Switching Equipment Congestion. Routes to tones or announcements when an SEC backward fail message is received on a CCS trunk.
SLE	Software Release: 5E6 and later. Screen List Editing. Routes to LASS (Local Area Signaling Services) Screen List Editing announcements given by the DSU2-RAF-DTA.
SSDE	Routes to tone or announcement when a Special Service Access Code was Dialed in Error and shouldn't have been dialed.
SSDOFHK	Routes to a tone or announcement when an off-hook instead of a second start dial wink is received from a carrier.
SSI	Software Release: 5E3 and later. Send Special Information. Routes to tones or announcements when a Send Special Information Tone backward fail message is received on a CCS trunk.
TACCT	Software Release: 5E11 and later. TDX (Toll Digital Exchange) account code used in a LDP (Long Distance Platform) office.
TSTTRK	Routes first available member of a trunk group containing outgoing LTD test trunk circuits. Used during line originated LTD calls.
UCRDENY	Software Release: 5E7 and later. Routes to an announcement when a call is rejected by UCR (Unidentified Call Rejection).
UIA	Unauthorized INWATS Announcement. Used in an Originating Screening Office when the INWATS Data Base sends a message that the originating Numbering Plan Area is out of band for

	the 800 number. This type is required for offices that perform SSP 800 query messages. For more information on SSP 800 translations, see Division 2, Section 1X.
VACANT	Vacant Code. Software Release: 5E9(1) and later: Routes for an unassigned carrier ID FGD CAC dialing error.
WATSDND	Routes to tone or announcement for calls that are denied WATS usage.

Data Rules:

For 5E5 and later, if the FIXED ROUTE TYPE is not routed to the DSU2-RAF, then the SVC GRP field on the associated TKGRP form should be entered as "NOANNC". If the FIXED ROUTE TYPE entered in this field is routed to the DSU2-RAF, then the following values are needed on the associated TKGRP form:

FIXED ROUTE TYPE ENTRY	TKGRP form		
	SVC GRP	TRKCLS	TRK DIR
ACSR	ACSR	RAFDTA	RAF
ACSR	RAS (See Note)	RAFDTA	RAF
NSANNC	ASP	RAFDTA	RAF
OSPSDA	DA	RAFANNC	RAF
ROACCS	ACCS	RAFDTA	RAF
ROCOIN	COIN	RAFCTR	RAF
SLE	RAS	RAFDTA	RAF
2LEVEL	RAS	RAFDTA	RAF

NOTE: A SVC GRP with a value of "RAS" is used with ACSR when the same trunk group also supports LASS and/or RAS (Remote Access Service) announcements.

For 5E9(1) and later, each FIXED ROUTE TYPE in the following table must be associated with a specific TRKCLS. The ROUTE INDEX must be defined on an RTIDX form, and the TRUNK GROUP NUMBER on that form must be defined on a TKGRP form with the TRKCLS that is specified in the table below.

FIXED ROUTE TYPE	TRKCLS
APT	LTPOGTC
CALLBACK	LTPCLBCK
CSTL	TSTK
DGRES	LTPDGTTF
DGTGEN	LTPDGTTF
ELSRSP	LTPELSTF
IC102	LTPICTC
ICSRTT	LTPICTC
INTTF	LTPWSTTF
OGTRANS	LTPOGTC
OTOTTF	LTPOTOTF
S96CTST	LTPS96TF
TSTTRK	TSTK

For 5E13 and later, when FIXED ROUTE TYPE entered in this field is set to a value in the following table, the ROUTE INDEX entered on this form must correspond to a RTIDX form (5303 Record) with TRUNK GROUP NUMBER entered. The TRUNK GROUP NUMBER entered on the RTIDX form must match a TGN on a TKGRP form (5202 Record) with SVC GRP set to a corresponding value in the table that follows, and TRK DIR must be "RAF".

FIXED ROUTE TYPE ENTRY	TKGRP FORM SVC GRP ENTRY
ROACCS	ACCS
OSPSDA or OSPSEIS	DA
ROCOIN	COIN
ACSR	ACSR or RAS
2LEVEL	RAS
SLE	RAS

NSANNC	ASP
NPA SP	RAS

The following data rules are listed for specific FIXED ROUTE TYPE entries:

10XERR: Required if any LDIT or MLDIT form (5300-3/5 Record) has "TRANS" entered in the TYPE OF CI CALL field.

950ERR: Required if any LDIT or MLDIT form (5300-3/5 Record) has "TRANS" entered in the TYPE OF CI CALL field.

ACT: Required if any IDPACT form (5601-3 Record) has TREATMENT equal to "ANNC".

ACTUCR: If FIXED ROUTE TYPE is "ACTUCR", TONE must be "N".

AL2LVL or ALSLE: If "AL2LVL" or "ALSLE" is entered, then
TONE must be "N" and
ROUTE INDEX must be entered.

For 5E8 and later, a FIXED ROUTE TYPE of "ALSLE" or "AL2LVL", requires an RTIDX form with the ROUTE TYPE equal to "HUNT", and a TKGRP form with TRKCLS equal to "RAFDTA".

ANSTO: Required if any ICF (InterLATA Carrier Feature) or CDIM (Carrier Destination Index Mapping) form exists in the office.

APT: Required in all offices. The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPOGTC".

ATCANIF: The value of "ATCANIF" will point to a route index, which will point to a trunk group. Required when CALL TYPE is set to "ADDON" or "MEETME" on the LDIT or MLDIT form.

ATCINT: The value of "ATCINT" will point to a route index, which will point to a trunk group. Required when CALL TYPE is set to "ADDON" or "MEETME" on the LDIT or MLDIT form.

BADDATA: Required in all offices.

BLANK: Tones are prohibited for an entry of "BLANK". If "BLANK" is entered, TONE must be "N".

If there is a TKGRP form(s) with INPULSING or OUTPUTSING entered as "ISUP7", there must be a FIXRT form with FIXED ROUTE TYPE entered as "BLANK".

For 5E9(1) and later, when FIXED ROUTE TYPE is "BLANK", and the ROUTE INDEX on this form is defined on an RTIDX form where a TRUNK GROUP NUMBER is entered, then on the related TKGRP form the TRK DIR must be "2W" or "OUT".

CAC: Required in all offices.

CALLBACK: TONE field must be "N". Also, for 5E8 and earlier, the ROUTE INDEX must be defined on an RTIDX form, and the trunk group on that form must point to a TKGRP form where TRKCLS is "LTPCLBCK".

CAMAONI: If a trunk group with TRKCLS "CAMAANI", "CAMAONI", or "CAMOPKEY" is defined for the office, a FIXED ROUTE TYPE of "CAMAONI" must be defined on this form and must provide a route index pointing to the trunk group. In addition, for "CAMAOPKEY" trunk groups, one or more of the CAMAONI Trunk Trouble code numbers must be specified on the OFCOPT form (5509 Record).

If the office has "CAMAANI" and/or "CAMAONI" Incoming trunk groups, but does not have a "CAMOPKEY" trunk group (and no CAMAONI Trunk Trouble codes), this Fixed Route Type provides a route index for tandeming Operator Number Identification calls. Normally, this will point to a CAMA or TSPS trunk group, but may point to a tone or an announcement.

This fixed route type is required if any TKGRP form (5202 Record) exists with a TRKCLS field equal to "CAMANI", "CAMAONI" or "CAMOPKEY"; the TONE field must be "N".

CGC: Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7".

CSACT, CSDCT, CSFAIL:

For 5E16 and later:

When FIXED ROUTE TYPE is "CSACT", "CSDCT", or "CSFAIL", TONE? must be "N".

When FIXED ROUTE TYPE is "CSACT", "CSDCT", or "CSFAIL", the ROUTE INDEX must be entered and there must be a matching ROUTE INDEX on the RTIDX form (5303 Record) and on this RTIDX form the TRUNK GROUP NUMBER must be entered, and have a matching TGN on the TKGRP form with TRK DIR equal to "ANN".

CSTL: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "TSTK". Required if any LDIT or MLDIT form (5300-3/5 Record) is entered with a CALL TYPE of "CSTL".

CWDBUSY, CWDDFANC, CWDHOLD, and CWDREMDR: When FIXED ROUTE TYPE is "CWDBUSY", "CWDDFANC", "CWDHOLD", or "CWDREMDR" then

- TONE must be "N"
- ROUTE INDEX must be entered
- the ROUTE INDEX on this form must be defined on the RTIDX form where ROUTE TYPE is "HUNT" and the TRUNK GROUP NUMBER on the RTIDX form must be defined on the TKGRP form where TRK DIR is "ANN".

DCOFHK: Required if any ICF or CDIM form (5300-6 Record) exists in the office.

DCTUCR: If FIXED ROUTE TYPE is "DCTUCR", TONE must be "N".

DENYORIG: If FIXED ROUTE TYPE is "DENYORIG", TONE must be "N".

DFLTFAIL: If DFLTFAIL is entered, and TONE is "Y", then TONE TYPE must be "REORDER", and both ROUTE INDEX and CHARGE INDEX must be entered. The ROUTE INDEX must be defined on an associated RTIDX form (5303 Record) with ROUTE TYPE set to "HUNT".

If a ROUTE INDEX is entered, it must be defined on an RTIDX form with ROUTE TYPE set to "REORDER" or "HUNT". If the ROUTE TYPE is "HUNT", the TRUNK GROUP NUMBER on the RTIDX form must match a TGN defined on a TKGRP form where TRK DIR is "ANN".

DGRES: Required in all offices. The associated route index must point to a Trunk Group on the TKGRP form with a TRKCLS of "LTPDGTTF".

DGTGEN: Required in all offices. The associated route index must point to a trunk group on the TKGRP

form with a TRKCLS of "LTPDGTTF".

DPAT: Required if any IDPGP form (5601-4 Record) has a DPAT TREATMENT equal to "ANNC".

DSNICA: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form).

EA1: For 5E14 and earlier - Required if the OFCOPT form field EADAS LINK has a value of "Y".
For 5E15 and later - Required if the OFCOPT form fields, TRFM LINK or RNM LINK has a value of "Y".

EA2: For 5E14 and earlier - Required if the OFCOPT form field EADAS LINK has a value of "Y".
For 5E15 and later - Required if the OFCOPT form fields, TRFM LINK or RNM LINK has a value of "Y".

ELSRESP: Required if any EQLU form (5710 Record) is entered. The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPELSTF".

ESMRT: Required if any TKGRP form has a TRKCLS of "LATA".

HNPAD: Required if any LDIT or MLDIT form (5300-3/5 Record) entry contains a CALL TYPE of "HNPAD".

HOSTSA: This Fixed Route Type will point to a route index which, in turn, points to the trunk group containing the general stand-alone announcement at the Host. This Fixed Route Type is required for all offices and applies to any RSM or Switching Module that goes into stand-alone operation.

A FIXED ROUTE TYPE of "HOSTSA" is required on the FIXRT form for all offices where any of the following conditions are true on the EQIM form:

- the SM USAGE field is set to "RSM".
- the STAND ALONE field is set to "Y".
- the STAND ALONE field is unknown but on the associated EQSITE form, the STAND ALONE PURCHASED? field is set to 'Y'.

IC102: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPICTC". Required for all multi-module offices if any trunk group has a TRKCLS of "SES".

ICROTL: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPROTL".

ICSRTT: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPICTC". Required if any LDIT or MLDIT form (5300-3/5 Record) entry contains a CALL TYPE of "SRTT".

ICTSTCL: TONE field must be "N". The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPICTC". Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7" or "CCIS6". For 5E7 and later, if ROUTE INDEX is entered, the ROUTE INDEX must be defined on an RTIDX form with ROUTE TYPE set to "HUNT" or "TEST".

IDPERR: Required if any IDPGP form has a STANDARD ERROR TREATMENT equal to "ANNC".

IECFail: Required if any ICF or CDIM form exists in the office.

INSID: Required if an EQLU form (5710 Record) or EQDCLU form (5810 Record) is entered.

INTTF: Required in all offices. The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPWSTTF".

INV10XX: Required if any ICF or CDIM form exists in the office.

For 5E9(1) and later, except for 911 calls, if the calling party (either an ISDN or a non-ISDN) dials a CAC that refers to an unassigned CIC, the caller shall receive VACANT code treatment.

INVCAC: Required if FGD PHASE equals "POSTPHASE" on the OFCOPT form.

INVDIG: Required in all offices.

INVNODIG: If a trunk group on the TKGRP form has TRKCLS "IC", a FIXED ROUTE TYPE of "INVNODIG" must be defined on this form.

INVPIC: Required if any ICF or CDIM form exists in the office.

ISTFLB: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPISTFL".

ISTFXMIT: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPISTFX".

LCOP: Required if an EQLU form (5710 Record) or EQDCLU form (5810 Record) is entered. The associated route index must point to a trunk group on the TKGRP form with the CYCLES field equal to 1.

NCA: For 5E14 and earlier - Required if the OFCOPT form field EADAS LINK has a value of "Y".
For 5E15 and later - Required if the OFCOPT form fields, TRFM LINK or RNM LINK has a value of "Y".

NCD: Required if any TKGRP form has an NCD SCREENING of "MAP" or "NOMAP".

NNC: Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7" or "CCIS6".

NO10XX: Required if any ICF or CDIM form exists in the office.

NOACK: Required if any ICF or CDIM form exists in the office.

NODLTN: Required in all offices.

NOSSD: Required if any ICF or CDIM form exists in the office.

NOSTART: Required if any ICF or CDIM form exists in the office.

NOXMTR: Required in all offices.

NPA_SP: For 5E13 and later, when FIXED ROUTE TYPE is "NPA_SP", ROUTE INDEX must be entered.

NSANNC: This value can only be entered when ASP OFC, on the OFCOPT form (5509 Record) is set to "SSP". For 5E9(2) and earlier, if the ASP OFC value is "SSP", then there must be a FIXRT form entered where FIXED ROUTE TYPE is "NSANNC".

For 5E10 and later, an entry with FIXED ROUTE TYPE equal to "NSANNC" for an SSP office is no longer required. However it must be provisioned if routing to a RAF/SAS is desired.

If "NSANNC" is entered:

- CHARGE INDEX must not be entered.
- the corresponding RTIDX form must have ROUTE TYPE equals "HUNT".

NWBLK: Required in all offices. For an RSM, if all RSM-Host time slots are busy, the route index should point to a Trunk Group for an announcement or reorder on that RSM.

If a ROUTE INDEX is entered, it must be defined on an RTIDX form with ROUTE TYPE set to "REORDER" or "HUNT". If the ROUTE TYPE is "HUNT", the TRUNK GROUP NUMBER on the RTIDX form must match a TGN defined on a TKGRP form where TRK DIR is "ANN".

For 5E9(1) and earlier, calls receiving Network Blocking terminating treatment must route to an announcement if the LEC IW REL field on the OFCOPT form is set to "N". If LEC IW REL is set to "YES", a preceding switch provides the terminating treatment.

OEASERR: If "OEASERR" is entered, then there must be a corresponding RTIDX form (5303 Record), where the ROUTE INDEX on this form matches the ROUTE INDEX on the RTIDX form. The ROUTE TYPE on the corresponding RTIDX form must be "HUNT" or "REORDER". In addition, the corresponding TKGRP form (5202 Record), i.e., TGN on TKGRP form matches the TRUNK GROUP NUMBER on the RTIDX form, must have "ANN" entered in the TRK DIR field.

If OSPS TA is "Y" on OSPSOPT form (5424 Record), and OFFICE TYPE is "Y" and OFFICE CARRIER is 288 on the OFCOPT form (5509 Record), then at least one FIXRT form must have a FIXED ROUTE TYPE of "OEASERR".

OGTRANS: Required in all offices. The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPOGTC".

OLSPD: Required in all OSPS offices.

OSANITO: Required if any ICF or CDIM form exists in the office.

OSPSDA: This entry is required for offices with the OSPSDA feature available with 5E4(2) and later.

OSPSEIS: This trunk group must be defined as an RAF announcement group. However, the RAFANNC service class may be used by more than one application. TONE TYPE must NOT be "REORDER" when "OSPSEIS" is entered.

A corresponding RTIDX form (5303 Record) is required for each FIXRT form with a FIXED ROUTE TYPE of "OSPSEIS", where the ROUTE INDEX field on the RTIDX form matches the ROUTE INDEX field on the FIXRT form and the ROUTE TYPE field on the RTIDX form is "HUNT". A corresponding TKGRP form is required for each FIXRT form with a FIXED ROUTE TYPE field of "OSPSEIS". The TGN field on the TKGRP form must match the TRUNK GROUP NUMBER on a RTIDX form. The ROUTE INDEX field on the RTIDX form must match the ROUTE INDEX field on the FIXRT form. Also, the TRK DIR field on the TKGRP form must be "RAF".

A second RTIDX form may be required for each FIXRT form with a FIXED ROUTE TYPE of "OSPSEIS" for overflow conditions. The ROUTE INDEX field of the second RTIDX form must match the NEXT ROUTE field on the first RTIDX form. The ROUTE INDEX field on the first RTIDX form matches the ROUTE INDEX field on the FIXRT form. The ROUTE TYPE field on the second RTIDX form must be "HUNT" or "REORDER". If the ROUTE TYPE field is "HUNT" on the second RTIDX form, then a corresponding TKGRP form is required where the TGN field matches the TRUNK GROUP NUMBER field on the second RTIDX form and the TRK

DIR field on the TKGRP form is "RAF". See Division 2, Section 3C for a discussion of translations for EIS.

OTOTTF: The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPOOTOTF".

OVLD: Required in all offices.

PDIAL: Required in all offices.

PERMSIG: Required in all offices.

PPBPC: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form (5509 Record)). Required in offices that have any line, Multi-Line Hunt Line or Trunks assigned Precedence and Preemption BRCS features.

PPBPR: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form (5509 Record)). Required in offices that have any line, Multi-Line Hunt Line or Trunks assigned Precedence and Preemption BRCS features.

PPNAV: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form (5509 Record)). Required in offices that have any line, Multi-Line Hunt Line or Trunks assigned Precedence and Preemption BRCS features. TONE TYPE must be "PRMPTON".

PPPAL: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form).

PPUAP: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form (5509 Record)). Required in offices that have any line or Multi-Line Hunt Lines assigned Precedence and Preemption BRCS features.

PPVAC: Required in all DSN offices (indicated by DSN OPTION field set to "Y" on the OFCOPT form (5509 Record)). Required in offices that have any line, Multi-Line Hunt Lines or Trunks assigned Precedence and Preemption BRCS features.

RASI: If "RASI" is entered, then TONE must be "N" and PLAY ANNC must be "N".

If "RASI" is entered and a ROUTE INDEX is entered:

- the ROUTE INDEX must be defined on an RTIDX form with a ROUTE TYPE of "HUNT" or "REORDER",
- the RTIDX has a ROUTE TYPE of "HUNT" and the TRUNK GROUP NUMBER on the RTIDX form is entered, then the TRUNK GROUP NUMBER must be defined as a TGN on the TKGRP form with "ANN" or "RAF" entered in the TRK DIR field on the TKGRP.

REORDER: Required in all offices. The specified route index must have a ROUTE TYPE of "REORDER" on the RTIDX form (5303 Record). TONE field must be "Y".

REQ10XX: Required if any ICF or CDIM form exists in the office.

REVOHANN, REVRBANN: Revertive Ringback Announcement and Revertive Offhook Announcement must be enabled by FID 578 on the FOSYS form.

The default Revertive Offhook Treatment is a distinctive tone, currently three Call Waiting beeps.

If the customer desires to have an announcement for Revertive Offhook Treatment instead of the distinctive tone, FID 579 must be enabled on the FOSYS form. If the customer has selected an announcement for Revertive Offhook Treatment, when the called party answers the announcement will begin. If the calling party goes offhook while the announcement is still playing, both parties will continue to hear announcement until the announcement finishes. Similarly, if the customer has selected distinctive tone for Revertive Offhook Treatment, both parties may hear the tone if they are both offhook at the same time.

If the "REVRBANN" fixed route announcement is not defined, the customer will hear BUSY tone.

If the originator stays offhook for 10 seconds after the "REVRBANN" announcement has finished, the caller will hear BUSY tone.

If the "REVOHANN" fixed route announcement is not defined, the called party will hear Call Waiting Tone 3.

ROCOIN: An OSPSOPT form (5424 Record) must be defined with the OSPA TA and the ACTS field equal to "Y".

In addition, if "Y" is entered for the TA and ACTS fields on the OSPSOPT form, the RAF trunk groups (TRK DIR is "RAF" on the TKGRP form) require a FIXRT form with a FIXED ROUTE TYPE of "ROCOIN".

RMSA: Required if the RSM STAND ALONE PURCHASED field on the EQSITE form (5722 Record) is "Y".

RTGTRBL: Required in all offices. When this route type is entered, the ROUTE INDEX field must also be entered. The ROUTE INDEX must be defined on an RTIDX form with ROUTE TYPE set to "REORDER" or "HUNT". If the ROUTE TYPE is "HUNT", the TRUNK GROUP NUMBER on the RTIDX form must match a TGN defined on a TKGRP form where TRK DIR is "ANN".

S96CTST: Required if the office serves Integrated SLC96 lines. Required if an SLCRT form (5106 Record) has been entered. The associated route index must point to a trunk group on the TKGRP form with a TRKCLS of "LTPS96TF".

SCD: A FIXED ROUTE TYPE OF "SCD" must be defined on this form if SCD SCRNING of "Y" on at least one ICF form (5305 Record). Also, for 5E6 and later, if SCD is entered in this field, then the TONE ? field must be "N".

SEC: Required if there are any TKGRP entries with INPULSING/ OUTPULSING equal to "ISUP7" or "CCIS6".

SLE: For 5E6 and later, TONE must be "N" and PLAY ANNC must be "N".

SSDE: Required in all offices.

SSDOFHK: Required if any ICF or CDIM form exists in the office.

SSI: Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7".

TACCT: When FIXED ROUTE TYPE is "TACCT", ROUTE INDEX must be entered, TONE TYPE must not be entered, TONE must be "N", and PLAY ANNC must be "N".

When FIXRT forms exist with a FIXED ROUTE TYPE of "TACCT", the ROUTE INDEX on the FIXRT form must be defined on the RTIDX form with a ROUTE TYPE of "HUNT". It also requires the TRUNK GROUP NUMBER on the RTIDX form to be defined on the TKGRP form with a TRK DIR of "RAF".

TSTTRK: Required if any LDIT or MLDIT form (5300-3/5 Record) contains a CALL TYPE of "LTD". The associated route index must point to a Trunk Group on the TKGRP form with a TRKCLS of "TSTK".

UCRDENY: If FIXED ROUTE TYPE is "UCRDENY", TONE must be "N".

UIA: Required if any LDIT or MLDIT form (5300-3/5 Record) has a CALL TYPE of "OSOIWTS".

VACANT: Required in all offices.

For 5E9(1) and later, A FIXED ROUTE TYPE may not be assigned to a ROUTE INDEX that has a corresponding ROUTE INDEX on an RTIDX form with a ROUTE TYPE of "DNTRAN".

For 5E9(1) and later, when the FIXRT form has a FIXED ROUTE TYPE of "DFLTRT" and the ROUTE INDEX is defined on a RTIDX form with a ROUTE TYPE of "HUNT" and TRUNK GROUP NUMBER on the RTIDX form is entered, then the TGN on the TRGRP form must match the TRUNK GROUP NUMBER and TRK DIR must be "ANN".

2.3 # TONE?

Description: Does the Fixed Route Type provide a tone from a Universal Tone Generator?

Required Field.

Valid Entries: Y, N

Data Rules:

If "Y" is entered and the FIXED ROUTE TYPE is "ESMRT", "NCD" or "UIA", then TONE TYPE must be "REORDER".

When "Y" is entered, TONE TYPE must be entered.

For 5E16 and later, when "N" is entered,

TONE TYPE must not be entered.

ROUTE INDEX must be entered.

This field must be "N" when FIXED ROUTE TYPE is "NSANNC".

2.4 TONE TYPE

Description: Enter the type of tone to which the Fixed Route Type should be terminated. This field should only contain an entry when TONE is "Y".

Valid TONE TYPE Entries	
Entry	Definition
ROH	Receiver Off Hook Tone.
REORDER	120 IPM Tone. ROUTE TYPE must be "REORDER" on RTIDX form with this TONE TYPE.
BUSY	60 IPM Tone.
PRMPTON	Software Release: 5E4(2) and later. AUTOVON Preemption Tone.
DSNROH	Software Release: 5E3 and later. AUTOVON/DSN permanent tone.

2.5 ROUTE INDEX

Description: Assign a route index for announcement or trunk group terminations. It is required when the

FIXED ROUTE TYPE is assigned a TONE TYPE of "REORDER" or if the TONE field is "N". This field must be blank when the FIXED ROUTE TYPE is assigned a TONE TYPE other than "REORDER".

Valid Entries:

For 5E10 and earlier: 1 - 3817

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

If a ROUTE INDEX is entered, it must be defined on the corresponding RTIDX form as a ROUTE INDEX.

For 5E9(1) and later, when the FIXRT form has a FIXED ROUTE TYPE of "DFLTRT" and a ROUTE INDEX is entered, the ROUTE INDEX must be defined on a RTIDX form with a ROUTE TYPE of "HUNT" or "REORDER".

2.6 CHARGE INDEX

Description: This field is used to assign a CI for Announcement or Trunk Group terminations.

NOTE: If there is no entry in this field, it indicates there is no data. On Recent Change View 10.1, an entry of 0 indicates there is no data.

Valid Entries: 1 - 2047

Data Rules:

This field must be entered if the FIXED ROUTE TYPE is assigned a TONE TYPE of "REORDER" or if the TONE field is "N".

This field must not be entered when the FIXED ROUTE TYPE is assigned a TONE TYPE other than "REORDER".

2.7 PLAY ANNC

Description: Should a tone or announcement be played on an ISUP7 trunk which crosses a network boundary?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

FIXED ROUTE TYPE	CAPABILITY	REQUIREMENTS	SOFTWARE RELEASE
10XXERR	Carrier ID	Required if any LDIT or MLDIT form (5300-3/5 Record) has "TRANS" entered in the TYPE OF CI CALL field.	5E7 and earlier
2LEVEL	2-Level AC/COT		5E7 and later
950ERR	OSPS Equal Access	See "OEASERR" for 5E8 and later Required if any LDIT or MLDIT form (5300-3/5 Record) has "TRANS" entered in the TYPE OF CI CALL field.	5E7 and earlier
ACSR	ACSR		5E5 and later

	(Automatic Customer Station Rearrangement)		
ACT	ACSR	Required if any IDPACT form (5601-3 Record) has TREATMENT equal to "ANNC".	5E2 and later
ACTUCR	UCR		5E6 and later
AL2LVL	LASS Alternate Language Announcement	Required for SF119	5E8 and later
ALSLE		Required for SFID 119	5E8 and later
ANSTO	CI (Carrier Interconnect)	Required before CI is activated. Required if any ICF (InterLATA Carrier Feature) or CDIM (Carrier Destination Index Mapping) form exists in the office.	5E2 and later
APT	Test	Required in all offices. Required if office runs Automatic Progression Testing	5E2 and later
ATCANIF	AT (ALLIANCE Teleconferencing)	Required when CALL TYPE is set to "ADDON" or "MEETME" on the LDIT or MLDIT form.	5E4(2) and later
ATCINT	AT	Required when CALL TYPE is set to "ADDON" or "MEETME" on the LDIT or MLDIT form.	5E4(2) and later
BADDATA	Base Required	Required in all offices	5E2 and later
BLANK	CCS Required	Required in all offices Required if "ISUP7" is entered in a TKGRP form(s) with the INPULSING or OUTPULSING fields on the TKGRP form.	5E6 and later
BUSY	CCS		5E6 and later
CAC	Charge-a-call	Required in all offices.	5E2 and later
CALLBACK	LTP	Required in all offices with IMLT-2	5E2 and later
CAMAONI	Base	Required if a trunk group with TRKCLS "CAMAANI", "CAMAONI", or "CAMOPKEY" is defined for the office	5E2 and later <Deleted via IMR 530623 CFVACT, CFDA, , 5E2 and later>
CGC	CCS	Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7".	5E3 and later
CSTL	Coin	Required for a TKGRP form with a TRKCLS of "TSTK". Required if any LDIT or MLDIT form (5300-3/5 Record) is entered with a CALL TYPE of "CSTL".	5E2 and later
CWDBUSY	Call Waiting Deluxe		5E9(1) and later.
CWDHOLD	Call Waiting Deluxe		5E9(1) and later.
DCOFHK	CI	Required before CI is activated. Required if any ICF or CDIM form (5300-6 Record) exists in the office.	5E2 and later
DCTUCR	UCR (Unidentified Call Rejection)		5E6 and later
DENYORIG	UCR		5E5 and 5E6 only
DFLTFAIL	MDSL (Multi-point DSL)		5E5 and later
DGRES	LTP (Logical Test Port)	Required in all offices	5E2 and later

DGTGEN	LTP	Required in all offices	5E2 and later
DPAT	IDP	Required if any IDPGP form (5601-4 Record) has a DPAT TREATMENT equal to "ANNC".	5E2 and later
DSNICA	DSN	Required in all DSN offices	5E3 and later
EA1	EADAS	Required if the OFCOPT form field EADAS LINK has a value of "Y".	5E2 and later
EA2	EADAS	Required if the OFCOPT form field EADAS LINK has a value of "Y".	5E2 and later
ELSRESP	LTP	Required in all offices equipped with a 4AC LINE UNIT. Required if any EQLU form (5710 Record) is entered.	5E3 and later
ESMRT	Equal Access Signaling	Required if any TKGRP form has a TRKCLS of "LATA".	5E2 and later
HNPAD	Base	Required if any LDIT or MLDIT form (5300-3/5 Record) entry contains a CALL TYPE of "HNPAD".	5E2 and later
HOSTSA	RSM	Required for offices with RSMs	5E2 and later
IC102	LTP	Required for all multi-module offices if any trunk group has a TRKCLS of "SES".	5E2 and later
ICROTL	LTP		5E2 and later
ICSRTT	LTP	Required in all offices. Required if any LDIT or MLDIT form (5300-3/5 Record) entry contains a CALL TYPE of "SRTT".	5E2 and later
ICTSTCL	CCS Test	Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7" or "CCIS6".	5E3 and later
IDPERR	IDP	Required if any IDPGP form has a STANDARD ERROR TREATMENT equal to "ANNC".	5E2 and later
IECFail	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
INSID	Coin	Required in all offices equipped with a LINE UNIT or a DCLU. Required if an EQLU form (5710 Record) or EQDCLU form (5810 Record) is entered.	5E2 and later
INTTF	TLWS	Required in all offices.	5E2 and later
INV10XX	Carried ID	Required if any ICF or CDIM form exists in the office.	5E2 and later
INV10XX	FGD CIC	Routes FGD CAC dialing error.	
INVCAC	FGD CIC	Required if FGD PHASE equals "POSTPHASE" on the OFCOPT form (5509 Record).	5E9(1) and later
INVDIG	Base Required	Required in all offices.	5E2 and later
INVNODIG	IEC (Interexchange Carrier)	Required if a trunk group has a TRKCLS of "IC".	5E2 and later
INVPIC	PIC (Presubscribed InterLATA Carrier)	Required if any ICF or CDIM form exists in the office.	5E2 and later
ISTFLB	ISTF (Integrated Services Test Facility)		5E3 and later
ISTFXMIT	ISTF		5E3 and later
LCOP	Coin	Required in all offices having either a LINE UNIT or a DCLU. Required if an EQLU form (5710 Record) or EQDCLU form (5810 Record) is entered.	5E2 and later
MISRLRN	CCS		5E11 and later
NCA	EADAS	Required if the OFCOPT form field EADAS LINK has a value of "Y".	5E2 and later
NCC	IEC		5E6 and later
NCD	IEC	Required if any TKGRP form has an NCD SCREENING of "MAP" or "NOMAP".	5E2 and later
NNC	CCS	Required if "ISUP7" or "CCIS6" is entered in the INPULSING/OUTPULSING fields on the TKGRP form.	5E3 and later
NO10XX	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
NO911	911	no longer required	5E2 and later
NOACK	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later

NODLTN	Base Required	Required in all offices.	5E2 and later
NOSSD	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
NOSTART	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
NOXMTR	Base Required	Required in all offices.	5E2 and later
NSANNC	ASP	For 5E9(2) and earlier	required if ASP OFC is "Y" on the OFCOPT form (5509 Record).
NWBLK		Required in all offices.	5E2 and later
OEASERR	OSPS Equal Access	Required if this office is an AT&T Toll and Assistance office	5E8 and later
OGTRANS	Base Required	Required in all offices.	5E2 and later
OLSPD	DDD	Required in all OSPS offices.	5E4(2) and later
OSANITO	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
OSPSDA	OSPS DA	Required for offices with the OSPSDA feature	5E3 and later
OSPSEIS	OSPS EIS		5E6 and later
OTOTTF	Crossbar or ESS	not required if the Switch has no lines or if the Switch being replaced is a Step-by-Step Switch, otherwise, this value is required.	5E3 and later
OVL	Base Required	Required in all offices.	5E2 and later
PCPDENY	2-Level COT		5E7 and later
PDIAL	Base Required	Required in all offices.	5E2 and later
PERMSIG	Base Required	Required in all offices.	5E2 and later
PFXREQD	CCS		5E11 and later
PPBPC	AUTOVON DSN	Required in all DSN offices	5E2 and later
PPBPR	AUTOVON, DSN	Required in all DSN offices	5E2 and later
PPNAV	AUTOVON	Required in all DSN offices	5E2 and later
PPPAL	AUTOVON DSN	Required in all DSN offices	5E3 and later
PPUAP	AUTOVON DSN	Required in all DSN offices	5E2 and later
PPVAC	AUTOVON DSN	Required in all DSN offices	5E2 and later
RASI	Remote Access to Advanced Service Interface		5E8 and later
REQ10XX	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
REORDER	Base Required	Required in all offices.	5E2 and later
REVOHANN	REA Revertive Announcement		5E9(1) and later
REVRBANN	REA Revertive Announcement		5E9(1) and later
ROACCS	OSPS ACCS	Required in all OSPS offices	5E4(2) and later
ROAOC	OSPS MECH	Required in all OSPS offices with DSU2- RAFs with coin tone receivers or tone decoders	5E6 and later
ROCOIN	OSPS TA	Required in all OSPS offices with DSU2- RAFs with coin tone receivers	5E4(2) and later
RSMSA	RSM ORM TRM	required if the Stand-Alone call processing option has been purchased for any Remote Site.	5E2 and later
RTGTRBL	Base Required	Required in all offices.	5E2 and later
S96CTST	SLC96	Required if the office serves Integrated SLC96 lines. Required if an SLCRT form (5106 Record) has been entered.	5E2 and later
SCD	SCD (Selective	Required if SCD SCRNING of "Y" on at least one ICF form (5305	5E5 and later

	Carrier Denial)	Record).	
SEC	CCS	Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7" or "CCIS6".	5E3 and later
SLE	LASS		5E6 and later
SSDE	Base Required	Required in all offices.	5E2 and later
SSDOFHK	CI	Required before CI can be activated. Required if any ICF or CDIM form exists in the office.	5E2 and later
SSI	CCS	Required if there are any TKGRP entries with INPULSING/OUTPULSING equal to "ISUP7".	5E3 and later
TSTTRK	LTP	Required if any LDIT or MLDIT form (5300-3/5 Record) contains a CALL TYPE of "LTD".	5E2 and later
UCRDENY	UCR		5E7 and later
UIA	INWATS 800	Required in all Toll OSO offices for which LDIT or MLDIT form (5300-3/5 Record) has a CALL TYPE of "OSOIWTS". Required in offices that perform SSP 800 query messages.	5E2 and later
VACANT	Base Required	Required in all offices.	5E2 and later
VACANT	FGD CIC		5E9(1) and later
VFYERR	2-Level COT	See "PCPDENY for 5E7 and later	5E6 only
WATSDND	WATS	Not currently used	5E2 and later

Figure 1 CAPABILITY VS FIXED ROUTE TYPE

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fixrt                      5ESS Switch      —
(5301-1)                   OFFICE DATA ADMINISTRATION
                             FIXED ROUTE TYPE

*1. FIXED ROUTE TYPE INVDIG
#2. TONE ?                  Y
 3. TONE TYPE               REORDER
 4. ROUTE INDEX             0013
 5. CHARGE INDEX            0001
 6. PLAY ANNC               N

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Figure 2 SAMPLE FIXRT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3H: 5300-7a/7b/8a/8b RECORD REMAINING DIGIT INTERPRETATION FORM - RDIT

1. GENERAL

The 5300-7/8 Record is available with 5E8 and later Software Releases.

The RDIT input form contains information for the translation of remaining dialed digit strings for digit analysis. RDIT translation is an extension of primary digit analysis that ascertains whether or not the remaining digit string is a selective dialing request.

1.1 RDIT Operation

RDIT translates digits collected but not translated in LDIT.

RDIT is used to translate selective dialed strings.

As an example, assume the numbers 555-xxxx go to routing set A. Under RDIT, the dialed string 555-1000 is defined as going to routing set B. In this case, all 555-xxxx numbers where xxxx does not equal 1000 still go to routing set A.

The advantage over using LDIT without RDIT is that LDIT would have to fully translate to a seven-digit string (involving dozens of LDIT forms in this example). With RDIT, only an LDIT for 555 and an RDIT for 5551000 need to be specified. RDIT defines the selective dialed strings.

When an LDIT indicates an RDIT exists, but the dialed string is not defined within the RDIT, then routing information from LDIT is used to route the call. For the example above, the string 555-2000 is dialed and 555 indicates an RDIT is present, but the RDIT does not define the remaining digits of 2000. RDIT will therefore not override the LDIT information, and 555-2000 will use routing set A.

Almost all types of routing definable in primary digit analysis can be defined also in RDIT (except FATs (Foreign Area Translators) or SACs (Service Access Codes)).

1.2 Recent Change View

The corresponding Recent Change View for this form is 9.9.

2. FORM ENTRIES - 5300-7A RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * RDIT

Description: Enter the Remaining Digits Interpreter Table Number.

Required Field.

Valid Entries: 1 - 999

2.3 * PREVIOUS DIGITS

Description: Enter the digits defined on the LDIT (5300-3/5 Record) or MLDIT form (5300-3 Record) as

INCOMING DIGITS.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

2.4 * REMAINING DIGITS

Description: Enter the remaining digits.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

2.5 # CALL TYPE

Description: Enter the Call Types to be used. Please refer to Figure 1 for field dependencies per CALL TYPE.

Required Field.

Default: NORMAL

Valid Entries:

Valid CALL TYPE Entries	
Entry	Definition
100	Incoming 100 Type Test Calls.
101	Incoming 101 Type Test Calls.
102	Incoming 102 Type Test Calls.
103	Incoming 103 Type Test Calls.
104	Incoming 104 Type Test Calls.
105	Incoming 105 Type Test Calls.
106	106 Test Calls for DSN (Defense Switched Network) offices only.
104R	Incoming Call to a RMS-D3 104 Test Line.
105R	Incoming Call to a RMS-D3 105 Test Line.
109R	Incoming Call to a RMS-D3 109 Test Line.
606R	Incoming Call to a RMS-D3 606 Test Line.
101R	Incoming Call to a RMS-D3 101 Test Line.
101TP	Incoming Call to a Specific RMS-D3 101 Test Position.
101TAT	Incoming Call to a Specific RMS-D3 101 Test Position and TAT.
211	Software Release: 5E15 and later. Dial 211.
311	Software Release: 5E15 and later. Dial 311.
900	900 calls. This CALL TYPE, prevents a LASS AR (Automatic Recall) user from camping-on to this line.
ADDON	Add-on for Alliance Teleconferencing.
APSDN	ACP (Action Control Point) for an SDN (Software Defined Network). This value indicates a query should be sent to the NCP (Network Control Point). The NCP will return a routing telephone number.
AUTINW	Automated Inward Call. Calls with this call type are originated by a distant operator and are routed to an automated query.
BBRITL	This ACTION is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BRITL	This ACTION is used for non-billed BRITL.
BUSOFC	Business Office (811).
CONFLCT	Conflicting NXX and NPA Code - either prefix resolved or timing resolved.
CSTL	Coin Station Test Line.
DA	555 Directory Assistance. Note: A CALL TYPE of "NORMAL" should be used with DA calls (i.e., 555-1212, NPA-555-1212) preceded by an FGD CAC.
DA2VDT	Directory Assistance calls routed to Video Display Terminal.
ECP	Software Release: 5E9(1) and later. Mobile originated call on a 5ESS Switch serving as a Digital Cellular Switch for an ECP (Executive Cellular Processor).
EMER	911 Emergency Service Bureau.

HNPAD	Home NPA (Numbering Plan Area) dialed in error.
IC1	Incoming 101 Call to Work Station 1.
IC2	Incoming 101 Call to Work Station 2.
IC3	Incoming 101 Call to Work Station 3.
IC4	Incoming 101 Call to Work Station 4.
IC5	Incoming 101 Call to Work Station 5.
IC6	Incoming 101 Call to Work Station 6.
IC7	Incoming 101 Call to Work Station 7.
IC8	Incoming 101 Call to Work Station 8.
IC9	Software Release: 5E8 and earlier Incoming 101 Call to Work Station 9 associated with CTTU (Central Trunk Test Unit). Software Release: 5E9(1) and later Incoming 101 Call to Work Station 9. Note: Effective with 5E9(1), IC33 is associated with CTTU (Central Trunk Test Unit).
IC10	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 10.
IC11	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 11.
IC12	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 12.
IC13	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 13.
IC14	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 14.
IC15	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 15.
IC16	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 16.
IC17	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 17.
IC18	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 18.
IC19	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 19.
IC20	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 20.
IC21	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 21.
IC22	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 22.
IC23	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 23.
IC24	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 24.
IC25	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 25.
IC26	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 26.
IC27	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 27.
IC28	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 28.
IC29	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 29.
IC30	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 30.
IC31	Software Release: 5E9(1) and later. Incoming 101 Call to Work Station 31.
IC32	Software Release: 5E9(1) and later.

	Incoming 101 Call to Work Station 32.
IC33	Software Release: 5E9(1) and later.
	Incoming 101 Call to Work Station 33 associated with CTTU (Central Trunk Test Unit).
IDDDFCA	International Direct Distance Dialing FCA call.
IDDDSTS	International Direct Distance Dialing Station to Station.
INV	ISTF (Integrated Services Test Function) Inverted Loopback test.
INWATS	INWATS (800+)
LNACP	ACP (Action Control Point) for a LN (Leased Network).
LOCDA	Local Directory Assistance (411).
LTD	Local Test Desk.
MEETME	Alliance Teleconferencing meet-me call.
NINV	ISTF (Integrated Services Test Function) Non-Inverted Loopback test.
NORM555	Software Release: 5E16 and later.
	Dial (1) + 555 - XXXX
NORMAL	This value is used for all other types of calls and indicates normal call processing. Intraoffice and interoffice (usually seven or ten digit) calls require no special handling by the Software Release.
NS800	Number Service (SSP800) type call.
OCTL	Open Circuit Test Line.
OPINW	Operator-assisted Inward Call. Calls with this call type are originated by a distant operator and are routed to an OSPS operator position.
OPNIT	Operator-assisted DA/Non-ISP call to the VDT.
OSOIWTS	Originating Screening Office INWATS.
PB	Incoming Permanent Busy Type Test Calls.
RELAY	Software Release: 5E15 and later.
	711 Relay/Hearing Impaired Service.
REPAIR	Repair Service Bureau (611).
SDNA	Software Defined Network outgoing calls from the NAP (Network Access Point).
SDNE	Software Defined Network incoming calls to the NAP (Network Access Point).
SPAB800	Special Access Basic 800 Service.
SPAM800	MEGACOM 800 Service.
SRTT	Station Ringer Touch-Tone Test.
STG1FCA	First Stage of a Fully Coded Addressing international outbound call.
SYN	Incoming Synchronous Type Test Calls.
VACANT	Vacant NPA, NXX and Service Codes.
WETESTC	Test call associated with 5ESS Switch library programs.

Data Rules:

Call Types "LOCDA", "REPAIR", "BUSOFC" and "EMER" require a corresponding entry on the CONV form (5300-4 Record).

If a CALL TYPE of "100", "101", "101R", "101TAT", "101TP", "102", "103", "104", "104R", "105", "105R", "106", "109R", "606R", "IC1", "IC2", "IC3", "IC4", "IC5", "IC6", "IC7", "IC8", "IC9", "INV", "NINV", "PB" or "SYN" is entered, ROUTE INDEX on the RTIDX form (5303 Record), which corresponds to the ROUTE INDEX on this form, must have a ROUTE TYPE of "TEST".

A digit string used for test CALL TYPEs must be used for the same test CALL TYPE in all LDITs in which the digit string is defined. This applies to digit strings defined on LDIT, MLDIT and RDIT forms.

Test CALL TYPEs require that NBR OF DIGITS exactly equal the number of PREVIOUS and REMAINING DIGITS.

A terminating test line ("10x", "PB", or "SYN") must be defined in the office as a CALL TYPE on an RDIT, LDIT, or MLDIT form, or as TEST CODE on a LINE form (5109 Record).

When CALL TYPE is "NORMAL" or "900",

- CDI must be entered, and
- either RTI NXX must be entered.

When CALL TYPE is not "DA", "NORMAL", "AUTINW", "OPINW", or "900", TERM LATA cannot be entered.

When CALL TYPE is not "CONFLCT", NBR OF DIGITS must be greater than or equal to the sum of the lengths of PREVIOUS DIGITS and REMAINING DIGITS.

The following CALL TYPEs require a FIXRT form (5301-1 Record) with the FIXED ROUTE TYPE listed:

- "CSTL" with FIXED ROUTE TYPE of "CSTL",
- "HNPAD" with FIXED ROUTE TYPE of "HNPAD",
- "LTD" with FIXED ROUTE TYPE of "TSTTRK", and
- "SRTT" with FIXED ROUTE TYPE of "ICSRTT".

ADDON: If "ADDON" is entered in the CALL TYPE field, FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" or "ATCINT".

APSDN: This value can only be used when a 5ESS Switch is an ACP (ACT PT SDN field on the OFCOPT form (5509 Record) is "Y").

AUTINW: This is a valid call type only if the OSPA TA parameter is set to "Y" on the OSPSOPT form (5424 Record).

BBRITL: The DSL which is being tested must have BRITL ALW set to "Y" on the corresponding DSLUSR form (5908 Record).

CONFLCT: If CALL TYPE is "CONFLCT", NBR OF DIGITS is specified, and PREFIX is blank, there must be exactly two CONFLICT RESOLUTION entries.

When CALL TYPE is "CONFLCT", NATURE OF NBR (5E8 only) and TRIG NBR cannot be entered.

For 5E9(1) and later, when CALL TYPE is "CONFLCT", then ESC CODE on the first screen must be "N".

For 5E11 and later, when CALL TYPE is "CONFLCT",

- LNP TRIG NBR must be "IGN" or must not be entered.
- at least two rows of CONFLICT RESOLUTION ENTRIES list must be entered.
- GEO PORT must be "N".
- PORTED IN must be "N".
- HOME LRN must be "N".
- LRN SCREENING must be "N".
- INH DNT must be "N".

For 5E13 and later, when CALL TYPE is "CONFLCT", NPA SPLIT ANNC must be "N".

For 5E14 and later:

when CALL TYPE is "CONFLCT", then REL LINK must be "N".

when CALL TYPE is "CONFLCT", at least two rows on the CONFLICT RESOLUTION ENTRIES (CONFRES) list must be entered.

EMER: For 5E11 and later, when CALL TYPE is "EMER", LNP TRIG NBR must be "IGN" or not entered.

IDDDFCA: This value is used for the address sequence of an international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. A DAS (Digit Analysis Selector) of 81 will be used instead of the DAS associated with the incoming trunk group. This Call Type may be assigned to incoming digit sequences CC + NN or 0/1X + CC + NN. CC is the Country Code. NN is the National Number. 0/1X is the ISC (International Switching Center) prefix code.

IDDDSTS: Used for multistage international outbound calls which are routed to an MF trunk, CCIS6 trunk or CCS7 ISUP trunk. This value may be assigned to codes which require two-stage call handling at a toll or tandem office. Two-stage call handling includes an acknowledgement wink before the second stage of digits is sent. Also used in a tandem or toll office when the digits impulsed on the trunk, typically from a TSPS, are 011 + padded Country Code.

This value can be used for:

- A Local office (OFFICE TYPE on the OFCOPT form is "N") where the incoming digits are 011 + (7 - 12 digits).
- A Toll office (OFFICE TYPE on the OFCOPT form is "Y") which will not use FCA (Fully Coded Addressing). Possible incoming digits are 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.
- A 5ESS Gateway switch that requires an FCA international outbound call to leave the office on an MF trunk must assign this CALL TYPE to the digit sequence CC + NN. CC is the Country Code. NN is the National Number.

LNACP: This value indicates a query should be sent to the LN NCP (Network Control Point). The NCP will return routing and charging information. This value can only be used when the Leased Network DAS field is entered on the OFCOPT form (5509 Record).

MEETME: If "MEETME" is entered in the CALL TYPE field, FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" or "ATCINT".

NORM555: For 5E16 and later, when CALL TYPE is "NORM555", TRIG NBR and CODE INDEX must be entered.

NS800: CALL TYPE of "NS800" requires an OFCOPT form with SERV SWITCH PT of "Y".

OPINW: The OSPS TA field on the OSPSOPT form must be "Y".

OSOIWTS: If this Call Type is used, COMMON CHAN SIG and ORIG SCREEN OFF must be "Y" and the HOME NPA must be specified on the OFCOPT form (5509 Record). See the ONPA form (5312 Record) for related information.

FIXED ROUTE TYPE must equal "UIA" on a FIXRT form if at least one RDIT, LDIT or MLDIT form exists with a CALL TYPE of "OSOIWTS".

If CALL TYPE is "OSOIWTS", TYPE OF CI CALL must be "NONCI", "INTER", or "INTRA".

NOTE: OSOIWTS is used by an InterLATA Carrier switch to do originating screening for INWATS digits impulsed as 800 or 00X plus 7 digits. If this Call Type is used, COMMON CHAN SIG and ORIG SCREEN OFF must be "Y" and the HOME NPA must be entered on the OFCOPT form (5509 Record). See the ONPA form (5312 Record) for related information.

SPAB800: Special Access Basic 800 service allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAB800" on the TKGRP form (5202 Record)).

SPAM800: MEGACOM 800 service is a volume discount service which allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAM800" on the TKGRP form). MEGACOM 800 service is similar to Special Access Basic 800 service except the customer must supply the dedicated trunk group to the 5ESS Toll Switch.

STG1FCA: This value should be used for the first stage of a multi-stage international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. This Call Type may be assigned to incoming digit sequences 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international code.

For 5E15 and later, CALL TYPE can be set to "RELAY" only if the ACT field for SFID 594, on the SFSYS form is set to "Y".

2.6 TYPE OF CI CALL

Description: Enter the type of CI (Carrier Interconnect) call. See Figure 1 for appropriate entries per Call Type.

Valid TYPE OF CI CALL Entries	
Entry	Definition
COMP	Used for calls to a geographical area where the LEC (Local Exchange Carrier) and ICs (InterLATA Carriers) compete on an equal basis. Such calls must be routed by a carrier, but this "carrier" may be the LEC. If the subscriber wants to be routed via the LEC, the subscriber must either be presubscribed to the LEC or dial an explicit FGD CAC.
CONFL	Used for cases where the call may be either INTER (InterLATA) or INTRA (IntraLATA), depending on the dialed prefix. See Data Rules for more information.
INTER	Used for calls destined for outside the LATA. Such calls must be routed via a carrier, not the LEC.
INTRA	Used for calls destined for within the LATA. Usually routed via the LEC. If other carriers are permitted and accept IntraLATA calls, an explicit FGD CAC must be dialed (not presubscription) to access the carriers for these calls.
INTRM	FGB Interim call is used for an incoming trunk call dialed by the originator as 950XXXX. The 950 digits are entered in the PREVIOUS DIGITS. The XXXX represents a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the PREVIOUS DIGITS. When "INTRM" is entered, the last four digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's FGB CDI and FGB RTI.
NONCI	Normal tandem traffic or feature activation codes.
PRIV	Used for EAS (Extended Area Service) calls where the local calling area extends into the neighboring LATA. These InterLATA calls are treated as INTRA (routed by the LEC) except when the subscriber explicitly dials an FGD CAC. When the FGD CAC is dialed, the call is treated as INTER.
PSCAR	Used for Packet Switching Carrier calls.
PSNCI	Used for Packet Switching Non-Carrier calls.
TCONF	Software Release: 5E9(1) and later.

	Intra-LATA toll conflict. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TCONF", a SFSYS form must exist with SFID 149 set to "Y".
TOLL	Software Release: 5E9(1) and later. Toll calls within the LATA. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TOLL", a SFSYS form must exist with SFID 149 set to "Y".
WZ1	Used for calls outside the continental United States, but within World Zone 1 (e.g., Canada).

Data Rules:

This field must be entered for all CALL TYPEs except "CONFLCT".

When TYPE OF CI CALL is "PSCAR" or "PSNCI", TRIG NBR cannot be entered.

When TYPE OF CI CALL equals "COMP", "CONFL", "INTER", "PRIV", "TRANS", or "WZ1", an ICF form (5305 Record) must exist.

CONFL: Call processing will look ahead at other records to determine if the call should be treated as IntraLATA or InterLATA. When no prefix has been dialed, the ROUTE INDEX value of this LDIT entry will be compared to the RTI value entered in the No Prefix column of the originator's Rate and Route form (5301 Record). If the RTI value equals the ROUTE INDEX value or is "REGL", it is considered a match and treated as an IntraLATA call. If the RTI is not equal to the ROUTE INDEX value, there is no match and therefore the call will be treated as an InterLATA call. When a 1 prefix has been dialed, the process is the same as the No Prefix case, except the RTI value found in the 1+ Prefix column of the RAR is used for comparison. When a 0 prefix has been dialed, the comparison technique is inappropriate. In this case, the 0+ Prefix entry in the RAR will be read. The RTI value in that entry will be analyzed to determine whether or not it is an Announcement Route Index. If it is an announcement, the call will be processed as an InterLATA call. If it is not, the call will be treated as an IntraLATA call. When the zero plus call should be treated as an InterLATA carrier call and therefore the RAR has an announcement type Route Index, care must be taken to make sure the associated CBLK entry equals "N".

PSCAR: When using this type of CI Call, the CALL TYPE must be "NORMAL" or "900", and ROUTE INDEX, OFFICE CODE, and CODE INDEX cannot be entered.

PSNCI: When TYPE OF CI CALL is "PSNCI", CALL TYPE must be "NORMAL", "900", or "VACANT".

Packet Switching TYPE OF CI CALLs, "PSCAR" and "PSNCI", cannot be mixed with non-Packet Switching TYPE OF CI CALLs within a single DAS.

WZ1: All forms with TYPE OF CI CALL equals "WZ1" which have the first three digits (that is, the NPA (Numbering Plan Area)) in the PREVIOUS DIGITS fields must have the same value for WZ1 REG.

For 5E9(1) and later, when CALL TYPE is "OSOIWTS", TYPE OF CI CALL must be "INTER", "INTRA", "NONCI", "TCONF" or "TOLL".

For 5E9(1) through 5E14, when CALL TYPE is "LOCDA", "BUSOFC", or "REPAIR", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".

For 5E15 and later, when CALL TYPE is "BUSOFC", "LOCDA", "RELAY", or "REPAIR", TYPE OF CI CALL must be "INTER", "INTRA", or "TOLL".

2.7 NBR OF DIGITS

Description: Enter the total number of digits expected excluding the dialed prefix.

Valid Entries: 1 - 15

Data Rules:

If a value is entered in this field, it must be equal to or greater than the quantity of digits entered in the INCOMING DIGITS and REMAINING DIGITS fields.

For the CALL TYPE of "CONFLCT", where the conflict is prefix resolved, enter the total number of digits expected for the entry associated with the prefix value entered under PREFIX.

2.8 CODE INDEX

Description: The Code Index combined with a Screening Index is used as an input to the Rate and Route Tables.

The CODE INDEX determines whether or not pre-query call screening will be performed for SSP/800 calls. If CALL TYPE is "NS800" and CODE INDEX is greater than 0, pre-query screening will be performed. The screening index from the originating line or trunk, along with the dialed prefix and this CODE INDEX, is used to access the RAR form (5301 Record). When the RTI from the associated RAR form is "REGL", the normal SSP/800 query and call processing will occur. When the RTI contains a numbered route index, the call will be routed to that RTI.

CODE INDEX is a real Code Index and not a pointer to the DISERV form (5321 Record).

Valid Entries: 3 - 4095

Data Rules:

This field must be blank if the CALL TYPE is "VACANT", "CONFLCT", "HNPAD", "LTD", "SRTT", "OCTL", "OSOIWTS", "APSDN" or "CSTL".

All combinations of CODE INDEX, and RDTA SCRIN IDX from the OFCOPT form must have corresponding RAR form entries for SCR and CDI.

Code Index 1 (0-) and Code Index 2 (010) may not be entered on the LDIT Record.

2.9 ROUTE INDEX

Description: This field indicates the Regular Route Index to be used for routing the call except when a Special Route Index entered on the RAR overrides it. The Regular Route Index is the route which is used by the majority of call originators to complete the call.

The ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

When the CALL TYPE is "VACANT", "NS800", "OSOIWTS", "CONFLCT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN" and "CSTL", this field must be blank. When the CALL TYPE is other than those just listed, an entry is required in this field or in the OFFICE CODE field.

ROUTE INDEX must be defined on an RTIDX form, and should not have a ROUTE TYPE of "BUSY" or "REORDER" on that form. If ROUTE TYPE is "HUNT", the TRK DIR pointed to must not be "ANN".

2.10 POLYGRID

Description: Is polygrid routing used for DSN (Defense Switched Network) offices?

Enter "N" for non-DSN offices.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If a ROUTE INDEX assigned with POLYGRID equals "Y", that ROUTE INDEX must equal POLY RT NUM on a PPPOLY form (5618-7 Record).

When RDIT forms have a ROUTE INDEX entered, and POLYGRID is "Y". The DSN OPTION on the OFCOPT form must be "Y".

2.11 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NXX growth to 8000 secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

When NPA is entered, OFFICE CODE must be entered.

For 5E12 and later, when the OFFICE CODES and/or NPA/OFFICE CODE combinations are assigned on RDIT forms, they must be defined on the NOC form.

2.12 OFFICE CODE

Description: Enter an Office Code (NXX) served by the 5ESS Switch (i.e., defined on the NOC form (5501 Record)). If an Office Code is entered, it will be entered to "route" the call to a Directory Number of this NXX in this office except when overridden by a Special Route Index entered in the Route Index field of the RAR form.

Valid Entries: 3 digit NXX (N = 2 - 9, X = 0 - 9)

Data Rules:

When the Call Type is "VACANT", "NS800", "OSOIWTS", "CONFLCT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN", "SPAB800", "SPAM800", "IDDDFCA", "IDDDSTS" or "CSTL", this field must be blank. When the Call Type is other than these, an entry is required in this field or in ROUTE INDEX.

For 5E12 and later, if the RDIT forms have an OFFICE CODE defined and there are multiple NOC forms with the same value of OFFICE CODE, NPA must also be defined on the RDIT form.

2.13 DESEP

Description: This field defines the Destination Separations Index for CALL TYPES other than "VACANT",

"CONFLICT", "HNPAD", "LTD", "SRTT", "OCTL", "OSOIWTS" or "CSTL". It is only required for Division of Revenue study.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the Traffic Separation Cell Grouping TRFSEP form (5308 Record).

If TYPE OF CI CALL is "PSCAR" or "PSNCI", this field must be blank.

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.14 WZ1 REG

Description: For codes with a TYPE OF CI CALL equal to WZ1, enter a World Zone 1 region. This digit is used in the first stage of outpulsing for INCs (International Carriers) on either a direct connection or via an Access Tandem. The first stage of outpulsing has a format of KP + 1NX + XXX + 01R + ST, where R is the World Zone 1 region. (1NX is a spare toll center code entered on the Route Index as prefix digits. XXX is the Carrier Identification Code.) For other than WZ1 types, leave this field blank.

Valid Entries: 0 - 9

2.15 TERM LATA

Description: This field is used at the InterLATA Carrier when Network Call Denial Screening is required on incoming CAMAANI Trunk Groups.

Valid TERM LATA Entries	
Entry	Definition
1	Indicates LATAs not subtending the switch
2 - 15	Indicates a subtending LATA of the switch.
2 - 31	Indicates a subtending LATA of the switch.

Data Rules:

If TYPE OF CI CALL is "PSCAR" or "PSNCI", this field must be blank.

If CALL TYPE is "LNACP", this field must be blank.

If TERM LATA is specified, COMMON CHAN SIG must equal "Y" on the OFCOPT form (5509 Record).

When the CALL TYPE is "NORMAL", "DA", "IDDDSTS", "AUTINW", "OPINW" or "INWATS", enter an appropriate value to indicate, based on incoming digits, the destination of this call.

The TERM LATA value is compared to an ORIG LATA value specified on the TKGRP form (5202 Record).

2.16 NATURE OF NBR

Description: Enter the nature of the dialed number.

Software Release: 5E8 and later

Valid Entries:

|

Valid NATURE OF NBR Entries	
Entry	Definition
IDDD or I	International
NATL or N	Domestic
PRIV or P	Private

Data Rules:

For 5E8 only, when NATURE OF NBR is entered, TRIG NBR must be entered.

2.17 TRIG NBR

Description: Enter the Network Services trigger number as defined on the NSTRIG form.

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

Data Rules:

When TRIG NBR is entered, TERM LATA cannot be entered.

For 5E8 only, if ASP OFC on an OFCOPT form equals "SSP", and TRIG NBR equals TRIG NBR on an NSTRIG form where APPLICATION equals "ASP", NATURE OF NBR must also be assigned.

If TRIG NBR equals TRIG NBR on an NSTRIG form with APPLICATION equal to "E911", CALL TYPE must equal "EMER" and TYPE OF CI CALL equal "INTRA".

For a CALL TYPE of "EMER" or "NORMAL", if TRIG NBR is entered and APPLICATION on the corresponding NSTRIG form

- is "E911" or "800", ROUTE INDEX and OFFICE CODE cannot be entered;
- is "ASP", ROUTE INDEX or OFFICE CODE must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.

If TRIG NBR equals TRIG NBR on an NSTRIG form with SERV KEY equal to "CDPN", and NBR OF DIGITS is neither 7 nor greater than 9, ALT GBL TITLE on NSTRIG must be known.

For 5E15 and later, when CALL TYPE is "RELAY", TRIG NBR must not be entered.

2.18 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

2.19 DFLT RT

Description: The DFLT RT field is used to identify the type of default routing treatment to be used for the ASP Default Routing for 3/6/10-Digit Triggers (Phase 1) Special Feature. When the ASP Special Feature has

been purchased, this field can be used to specify the type of default routing to occur when an ASP specific digit trigger query fails.

Software Release: 5E10 and later
Default Value: NONE

Valid DFLT RT Entries	
Entry	Definition
ANNC	Default route to announcement (or tone). The call will route to either a tone or announcement, depending on what is defined for the route.
DLDN	Default route to dialed DN. The call will route to the DN dialed (or the DN being routed to if the call came from a trunk).
NONE	No default routing. No special default routing will take place, and normal call treatment will send the call to reorder or NCA (No Circuits Available).

Data Rules:

For 5E9(2) and earlier, if an RDIT form has a DFLT RT or CONFLICT RESOLUTION ENTRIES DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on the NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1"

For 5E10 and later, when the RDIT forms have a DFLT RT entry or a CONFLICT RESOLUTION ENTRIES DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

2.20 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later
Default: N

Valid Values: Y, N

2.21 REMARKS

Description: This field may contain any remarks deemed locally necessary.
Valid Entries: 1 - 16 characters

3. FORM ENTRIES - 5300-7B RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

3.2 * RDIT

Description: Enter the Remaining Digits Interpreter Table Number.

Required Field.
Valid Entries: 1 - 999

3.3 * PREVIOUS DIGITS

Description: Enter the digits defined on the LDIT or MLDIT form as INCOMING DIGITS.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

3.4 * REMAINING DIGITS

Description: Enter the remaining digits.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

LOCAL NUMBER PORTABILITY

For 5E11 and later, fields (Section 3.5) - (Section 3.10) support the Local Number Portability feature. For more information, see Division 2, Section 4A174.

3.5 LNP TRIG NBR

Description: Enter the LNP trigger number. The LNP trigger number is a conditional trigger which initiates a query to the SCP (Service Control Point) based on further routing determinations and checks following the trigger detection. The "IGN" entry means to ignore the LNP TRIG NBR, GEO PORT and PORTED IN attributes and inherit these attributes from the LDIT form.

Software Release: 5E11 and later

Required Field.

Default: IGN

Valid Values: IGN or 1 - 255

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT on the SFSYS form (5713-1 Record) must be "Y" before LNP TRIG NBR and the CONFLICT RESOLUTION field for LNP TRIG NBR can be set to "Y".

When LNP TRIG NBR is "IGN", both PORTED IN and GEO PORT must be "N".

When LNP TRIG NBR is 1 - 255, TYPE OF CI CALL must be "INTER", "INTRA", "TOLL", "COMP", "PRIV", "NONCI", "TCONF" or "CONFL".

When both LNP TRIG NBR and TRIG NBR or both CONFLICT RESOLUTION TRIG NBR and CONFLICT RESOLUTION LRN TRIG NBR are entered on this form, the TRIG NBR or CONFLICT RESOLUTION TRIG NBR (whichever is entered) must be defined on an NSTRG form (5324 Record) which has APPLICATION set to "ASP".

When either LNP TRIG NBR or CONFLICT RESOLUTION LRN TRIG NBR is entered on this form, the LNP TRIG NBR or CONFLICT RESOLUTION TRIG NBR (whichever is entered) must be defined as TRG NBR on an NSTRG form (5324 Record) which has APPLICATION set to "ASP" and AIN REL "R0D1".

For 5E13 and later, when LNP TRIG NBR or CONFRES.LNP TRIG NBR is entered, TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form is set

to "Y".

3.6 GEO PORT

Description: Any geographically ported DN's? This field, when set to "Y", indicates geographic porting has occurred for at least one DN associated with this RDIT entry.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

Data Rules:

When GEO PORT is "Y", LNP TRIG NBR must be 1 - 255.

3.7 PORTED IN

Description: Any ported DN terminations? This field, when set to "Y", indicates that there exists at least one DN termination in this office associated with this RDIT digit translation even though a route index (not an office code) is provisioned for this RDIT translation.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

Data Rules:

Local Number Portability is a secured feature. This feature must be purchased and SFID 174 ACT on the SFSYS form (5713-1 Record) must be "Y" before these fields can be set to "Y".

When PORTED IN is "Y", LNP TRIG NBR must be 1 - 255.

When PORTED IN is "Y", ROUTE INDEX must be entered.

For 5E13 and later, when PORTED IN or CONFRES.PORTED IN is "Y", TYPE OF CI CALL or CONFRES.TYPE OF CI CALL can be "INTER" only when the ACT field for SFID 303 on the SFSYS form is set to "Y".

3.8 HOME LRN

Description: Is this a home location routing number? This field is set to "Y" when the LRN represents this switch or a rate center in this switch.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

3.9 LRN SCREENING

Description: Use screening attributes for LRN? This field is set to "Y" when the LRN a rate center in this switch which would imply that the TYP CI CALL and CDI from analysis of this LRN should be used.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

3.10 INH DNT

Description: Inhibit processing of dialed number triggers?

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

3.11 GETS HPC

Description: Is GETS (Government Emergency Telecommunication Service) HPC (High Probability Call Completion Service) required? The GETS HPC field is used as an indicator to mark GETS HPC calls so that enhanced functionality provided by other HPC capabilities (e.g., Trunk Queuing, ISUP Signaling, Exemption from Network Management Controls) can be invoked. When set to "Y", calls translated to this address receive special treatment resulting in a higher probability of call completion. For more information, see Division 2, Section 4A279.

The use of HPC Network Capabilities is restricted in the United States and U.S. Territories to National Security/Emergency Preparedness (NS/EP) users authorized by the Office of the Manager, National Communication System (OMNCS). Telco deployment of these HPC Network Capabilities must be co-ordinated with the OMNCS at the following address:

Office of the Manager
National Communication System
Attn: GETS Program Office
701 South Courthouse Rd
Arlington, VA, 22204-2198
email: gets@ncs.gov

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E13 and later, when the LDIT/MLDIT/RDIT forms' GETS HPC is "Y" or CONFLICT RESOLUTION GETS HPC is "Y", and TRIG NBR or CONFLICT RESOLUTION TRIG NBR is known, then the associated NSTRIG form (associated through TRIG NBR) must have APPLICATION set to "ASP" and ASP TOLL FREE must be "N".

For 5E13 and later, when the LDIT/MLDIT/RDIT/INDIT forms', GETS HPC is "Y" or CONFLICT RESOLUTION

GETS HPC is "Y", GETS HPC or CONFLICT RESOLUTION GETS HPC can be "Y" only when the GETS High Probability of Call Completion Secured Feature has been purchased. A SFSYS form must exist with SFID 279 ACT set to "Y".

3.12 DENY XFER

Description: This field is used to indicate if a call transfers to a particular digit string should be denied.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later:

When DENY XFER is "Y", CALL TYPE must not be "EMER".

When DENY XFER on the LDIT form is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y". "Y" being set on the SFSYS form indicates that the "Deny Transfer of Digit Screened Calls" feature has been purchased.

3.13 REL LINK

Description: Is this a release link directory assistance number? This field is used to indicate whether or not the digits being translated map to a release link directory assistance number.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When REL LINK is "Y":

CALL TYPE must be "DA", "LOCDA", "NORM555", or "NORMAL".

One of the following two conditions must exist:

For the Release Link for Toll Office feature using ANSI (American National Standards Institute) standard signaling, the ACT field for SFID 520 on the SFSYS form (5713-1 Record) must be set to "Y"; or

For the Release Link for Toll Office feature using TOPS (Operating System for DMS (Data Management System)) nonstandard signaling, the ACT field for SFID 521 on the SFSYS form must be set to "Y".

3.14 NPA SPLIT ANNC

Description: Should caller be given a warning announcement if dialing a 7-digit or 10-digit number during permissive period of NPA (Numbering Plan Area) Split?

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NPA SPLIT ANNC is set to "Y", NBR OF DIGITS must be "7" or "10".

When NPA SPLIT ANNC or CONFRES.NPA SPLIT ANNC is set to "Y":

the ACT field for SFID 347 on the SFSYS form (5713-1 Record) must be set to "Y". (For more information, see Division 2, Section 4A347, for the Announcement on Detection of NPA Split feature.)

the APPLICATION field on the ANNAPL form (5529 Record) must be set to "NPA_SP".

the FIXED ROUTE TYPE field on the FIXRT form (5301-1 Record) must be set to "NPA_SP".

4. FORM ENTRIES - 5300-8A RECORD

4.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

4.2 * RDIT

Description: Enter the Remaining Digits Interpreter Table Number.

Required Field.

Valid Entries: 1 - 999

4.3 * PREVIOUS DIGITS

Description: Enter the digits defined on the LDIT or MLDIT form as INCOMING DIGITS.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

4.4 * REMAINING DIGITS

Description: Enter the remaining digits.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

CONFLICT RESOLUTION

Fields Section 4.5 -Section 4.18 refer to conflict resolution entries.

4.5 NBR DIG

Description: Enter the total number of digits expected excluding any prefix. If the code in conflict is prefix resolved, exactly one of the code's conflict resolution entries must have NBR DIG equal to NBR OF DIGITS entered on screen 1 of this form, 5300-7 Record.

Data Rules:

For each row of the CONFLICT RESOLUTION ENTRIES list, NBR DIGS must be greater than or equal to the sum of the lengths of PREVIOUS DIGITS and REMAINING DIGITS.

4.6 CALL TYPE

Description: Enter the Call Type to be used. Please refer to Figure 1 for field dependencies per CALL TYPE.

Valid CALL TYPE Entries	
Entry	Definition
211	Software Release: 5E15 and later. Dial 211.
311	Software Release: 5E15 and later. Dial 311.
900	900 calls. This CALL TYPE, prevents a LASS AR (Automatic Recall) user from camping-on to this line.
ADDON	Alliance Teleconferencing add-on calls.
APSDN	ACP (Action Control Point) for an SDN (Software Defined Network). This value indicates a query should be sent to the NCP (Network Control Point). The NCP will return a routing telephone number.
AUTINW	Automated Inward Call. Calls with this call type are originated by a distant operator and are routed to an automated query.
BBRITL	This ACTION is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BRITL	This ACTION is used for non-billed BRITL.
BUSOFC	Business Office (811).
CSTL	Coin Station Test Line.
DA	555 Directory Assistance. Note: A CALL TYPE of "NORMAL" should be used with DA calls (i.e., 555-1212, NPA-555-1212) preceded by an FGD CAC.
ECP	Software Release: 5E9(1) and later. Mobile originated call on a 5ESS Switch serving as a Digital Cellular Switch for an ECP (Executive Cellular Processor).
EMER	911 Emergency Service Bureau.
HNPAD	Home NPA (Numbering Plan Area) dialed in error.
IDDDFCA	International Direct Distance Dialing FCA call.
IDDDSTS	International Direct Distance Dialing Station to Station.
INWATS	INWATS (800+).
LOCDA	Local Directory Assistance (411).
LTD	Local Test Desk.
MEETME	Alliance Teleconferencing meet-me call.
NORM555	Software Release: 5E16 and later. Dial (1) + 555 - XXXX
NORMAL	All others.
OCTL	Open Circuit Test Line.
OPNIT	Operator-assisted DA/Non-ISP call to the VDT.
OPINW	Operator-assisted Inward Call. Calls with this call type are originated by a distant operator and are routed to an OSPS operator position.
RELAY	Software Release: 5E15 and later. 711 Relay/Hearing Impaired Service.
REPAIR	Repair Service Bureau (611).
SDNA	Software Defined Network outgoing calls from the NAP (Network Access Point).
SDNE	Software Defined Network incoming calls to the NAP (Network Access Point).
SPAB800	Special Access Basic 800 Service.
SPAM800	MEGACOM 800 Service.
SRTT	Station Ringer Touch-Tone Test.
STG1FCA	First Stage of a Fully Coded Addressing international outbound call.
VACANT	Vacant NPA, NXX and Service Codes.

Data Rules:

The following CALL TYPEs require a FIXRT form with the FIXED ROUTE TYPE listed:

- "CSTL" with FIXED ROUTE TYPE of "CSTL",
- "HNPAD" with FIXED ROUTE TYPE of "HNPAD",
- "LTD" with FIXED ROUTE TYPE of "TSTTRK", and
- "SRTT" with FIXED ROUTE TYPE of "ICSRTT".

CALL TYPEs "LOCDA", "REPAIR", "BUSOFC" and "EMER" require a corresponding entry on the CONV form (5300-4 Record).

APSDN: This value can only be used when a 5ESS Switch is an ACP (ACT PT SDN field on the OFCOPT form is "Y").

AUTINW: The OSPS TA field on the OSPSOPT form must be "Y".

BBRITL: The DSL which is being tested must have BRITL ALW set to "Y" on the corresponding DSLUSR form.

EMER: For 5E11 and later, when CALL TYPE is "EMER", LNP TRIG NBR must be "IGN" or not entered.

IDDDFCA: This value is used for the address sequence of an international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. A DAS (Digit Analysis Selector) of 81 will be used instead of the DAS associated with the incoming trunk group. This Call Type may be assigned to incoming digit sequences CC + NN or 0/1X + CC + NN. CC is the Country Code. NN is the National Number. 0/1X is the ISC (International Switching Center) prefix code.

IDDDSTS: Used for multistage international outbound calls which are routed to an MF trunk, CCIS6 trunk or CCS7 ISUP trunk. This value may be assigned to codes which require two-stage call handling at a toll or tandem office. Two-stage call handling includes an acknowledgement wink before the second stage of digits is sent. Also used in a tandem or toll office when the digits impulsed on the trunk, typically from a TSPS, are 011 + padded Country Code.

This value can be used for:

- A Local office (OFFICE TYPE on the OFCOPT form is "N") where the incoming digits are 011 + (7 - 12 digits).
- A Toll office (OFFICE TYPE on the OFCOPT form is "Y") which will not use FCA (Fully Coded Addressing). Possible incoming digits are 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.
- A 5ESS Gateway switch that requires an FCA international outbound call to leave the office on an MF trunk must assign this CALL TYPE to the digit sequence CC + NN. CC is the Country Code. NN is the National Number.

MEETME: If "MEETME" is entered in the CALL TYPE field, FIXRT forms (5301 Records) must be submitted with FIXED ROUTE TYPES of "ATCANIF" and "ATCINT".

NORM555: For 5E16 and later, when CALL TYPE is "NORM555", TRIG NBR and CDI must be entered.

OPINW: The OSPS TA field on the OSPSOPT form must be "Y".

SPAB800: Special Access Basic 800 service allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAB800" on the TKGRP form).

SPAM800: MEGACOM 800 service is a discount service which allows calls that terminate at a 5ESS Toll Switch to be routed to a customer's PBX over a dedicated trunk group (TRKCLS of "SPAM800" on the TKGRP form). MEGACOM 800 service is similar to Special Access Basic 800 service except the customer must supply the dedicated trunk group to the 5ESS Toll Switch.

STG1FCA: This value should be used for the first stage of a multi-stage international outbound call incoming to a Toll Switch (OFFICE TYPE on the OFCOPT form is "Y") which will use FCA. This Call Type may be assigned to incoming digit sequences 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.

4.7 CI TYPE

Description: Enter the type of CI (Carrier Interconnect) call. See Figure 1 for appropriate entries per Call Type.

Valid CI TYPE Entries	
Entry	Definition
COMP	Used for calls to a geographical area where the LEC (Local Exchange Carrier) and ICs (InterLATA Carriers) compete on an equal basis. Such calls must be routed by a carrier, but this "carrier" may be the LEC. If the subscriber wants to be routed via the LEC, the subscriber must either be presubscribed to the LEC or dial an explicit FGD CAC.
CONFL	Used for cases where the call may be either INTER (InterLATA) or INTRA (IntraLATA), depending on the dialed prefix. See Data Rules for more information.
INTER	Used for calls destined for outside the LATA. Such calls must be routed via a carrier, not the LEC.
INTRA	Used for calls destined for within the LATA. Usually routed via the LEC. If other carriers are permitted and accept IntraLATA calls, an explicit FGD CAC must be dialed (not presubscription) to access the carriers for these calls.
INTRM	FGB Interim call is used for an incoming trunk call dialed by the originator as 950XXXX. The 950 digits are entered in the PREVIOUS DIGITS. The XXXX represents a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the PREVIOUS DIGITS. When "INTRM" is entered, the last four digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's FGB CDI and FGB RTI.
NONCI	Normal tandem traffic or feature activation codes.
PRIV	Used for EAS (Extended Area Service) calls where the local calling area extends into the neighboring LATA. These InterLATA calls are treated as INTRA (routed by the LEC) except when the subscriber explicitly dials an FGD CAC for an IC. When the FGD CAC is dialed, the call is treated as INTER.
PSCAR	Used for Packet Switching Carrier calls.
PSNCI	Used for Packet Switching Non-Carrier calls.
TCONF	Software Release: 5E9(1) and later. Intra-LATA toll. Toll calls within the LATA. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TCONF", a SFSYS form must exist with SFID 149 set to "Y".
TOLL	Software Release: 5E9(1) and later. IntraLATA toll conflict. This entry supports the Intra-LATA PIC capability. With TYPE OF CI CALL set to "TOLL", a SFSYS form must exist with SFID 149 set to "Y".
WZ1	Used for calls outside the continental United States, but within World Zone 1 (e.g., Canada).

Data Rules:

This field must be entered for all CALL TYPEs except "CONFLCT".

When CI TYPE is "PSNCI" or "PSCAR",

- CALL TYPE must be "NORMAL" or "900", and
- TRIG NBR cannot be entered.

When TYPE OF CI CALL equals "COMP", "CONFL", "INTER", "PRIV", "TRANS", or "WZ1", an ICF form must exist.

CONFL: Call processing will look ahead at other records to determine if the call should be treated as IntraLATA or InterLATA. When no prefix has been dialed, the ROUTE INDEX value of this LDIT entry will be compared to the RTI value entered in the No Prefix column of the originator's Rate and Route form (5301 Record). If the RTI value equals the ROUTE INDEX value or is "REGL", it is considered a match and treated as an IntraLATA call. If the RTI is not equal to the ROUTE INDEX value, there is no match and therefore the call will be treated as an InterLATA call. When a 1+ prefix has been dialed, the process is the same as the No Prefix case, except the RTI value found in the 1+ Prefix column of the RAR is used for comparison. When a 0 prefix has been dialed, the comparison technique is inappropriate. In this case, the 0+ Prefix entry in the RAR will be read. The RTI value in that entry will be analyzed to determine whether or not it is an Announcement Route Index. If it is an announcement, the call will be processed as an InterLATA call. If it is not, the call will be treated as an IntraLATA call. When the zero plus call should be treated as an InterLATA carrier call and therefore the RAR has an announcement type Route Index, care must be taken to make sure the associated CBLK entry equals "N".

PSCAR: When using this type of CI Call, the CALL TYPE must be "NORMAL" or "900".

PSNCI: When this TYPE OF CI CALL is used, a CALL TYPE of "NORMAL", "900" or "VACANT" must be entered.

Packet Switching CI TYPEs "PSCAR" and "PSNCI", cannot be mixed with non-Packet Switching CI TYPEs within a single DAS.

WZ1: All forms with CI TYPE equals "WZ1" which have the first three digits (that is, the NPA (Numbering Plan Area)) in the PREVIOUS DIGITS fields must have the same value for WZ1 REG.

For 5E15 and later, when CONFRES.CALL TYPE is "BUSOFC", "LOCDA", "RELAY", or "REPAIR", CONFRES.CI TYPE must be "INTER", "INTRA", or "TOLL".

4.8 CDI

Description: The Code Index combined with a Screening Index is used as an input to the Rate and Route Tables. Code Index 1 (0-) and Code Index 2 (010) may not be entered on the RDIT Record.

CODE INDEX is a real Code Index and not a pointer to the DISERV form (5321 Record).

Valid Entries: 3 - 4095

Data Rules:

This field must be blank if the CALL TYPE is "VACANT", "HNPAD", "LTD", "SRTT", "OCTL", "APSDN" or "CSTL".

All combinations of CDI and RDTA SCRIN IDX from the OFCOPT form must have corresponding RAR form entries for SCR and CDI.

4.9 RTI

Description: This field indicates the Regular Route Index to be used for routing the call except when a Special Route Index entered on the RAR overrides it. The Regular Route Index is the route which is used by the majority of call originators to complete the call.

The SSP/800 feature uses the RTI (or NXX) field when the SCP query response requests LEC routing, even when CI TYPE is "INTER".

The ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

When the CALL TYPE is "VACANT", "HNPAD", "LTD", "APSDN", "SRTT", "OCTL" and "CSTL", this field must be blank.

When the Call Type is other than those listed above, this field or the OFFICE CODE field must be entered.

ROUTE INDEX must be defined on an RTIDX form, and should not have a ROUTE TYPE of "BUSY" or "REORDER" on that form. If ROUTE TYPE is "HUNT", the TRK DIR pointed to must not be "ANN".

4.10 POLY

Description: Is polygrid routing used for DSN (Defense Switched Network) offices?

Enter "N" for non-DSN offices.

Valid Entries: Y, N

Data Rules:

If an RTI assigned with POLY equals "Y", that RTI must equal POLY RT NUM on a PPPOLY form.

When CI TYPE is "PSNCI" or "PSCAR", POLY cannot be entered.

4.11 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NXX growth to 8000 secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

When NPA is entered, NXX must be entered.

4.12 NXX

Description: Enter an Office Code (NXX) served by the 5ESS Switch (i.e., defined on the NOC form). If an Office Code is entered, it will be entered to "route" the call to a Directory Number of this NXX in this office, except when overridden by a Special Route Index entered in the Route Index field of the RAR form.

The SSP/800 feature uses the NXX (or RTI) field when the SCP query response requests LEC routing, even when CI TYPE is "INTER".

Data Rules:

When the CALL TYPE is "VACANT", "HNPAD", "LTD", "SRTT", "APSDN", "SPAB800", "SPAM800", "IDDDFCA", "IDDDSTS", "OCTL" or "CSTL", this field must be blank. When the Call Type is other than these, an entry is required in this field or in the ROUTE INDEX field.

For 5E12 and later, if the RDIT forms have a "CONFLICT RESOLUTION.NXX" defined in the rows indicated by NBR DIGS and there are multiple NOC forms with the same value of NXX, "CONFLICT RESOLUTION.NPA" must also be defined in the same row on the RDIT form.

4.13 DESEP

Description: Enter the Destination Separations Index for calls other than "VACANT", "HNPAD", "LTD", "SRTT", "OCTL" or "CSTL". It is only required for Division of Revenue Study.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the TRFSEP form (5308 Record).

4.14 WZ1 REG

Description: For codes with a TYPE OF CI CALL equal to WZ1, enter a World Zone 1 region. This digit is used in the first stage of outpulsing for INCs (International Carriers) on either a direct connection or via an Access Tandem. The first stage of outpulsing has a format of KP + 1NX + XXX + 01R + ST, where R is the World Zone 1 region. (1NX is a spare toll center code entered on the Route Index as prefix digits. XXX is the Carrier Identification Code.) For other than WZ1 types, leave this field blank.

Valid Entries: 0 - 9

4.15 TERM LATA

Description: This field is used as the InterLATA Carrier when Network Call Denial Screening is required on incoming CAMAANI Trunk Groups. The TERM LATA value is compared to an ORIG LATA value specified on the TKGRP form (5202 Record).

Valid TERM LATA Entries	
Entry	Definition
1	Indicates LATAs not subtending the switch
2 - 15	Indicates a subtending LATA of the switch.
2 - 31	Indicates a subtending LATA of the switch.

Data Rules:

If TYPE OF CI CALL field is "PSNCI" or "PSCAR", this field must be blank.

If TERM LATA is specified, COMMON CHAN SIG must equal to "Y" on the OFCOPT form (5509 Record).

When the Call Type is "NORMAL", "AUTINW", "OPINW" or "DA", enter an appropriate value to indicate, based on incoming digits, the destination of this call.

4.16 NON

Description: Enter the nature of the dialed number. This value is used in the conflict resolution table during query formulation of Network Services calls.

Software Release: 5E8 and later

Valid Entries:

Valid NON Entries	
Entry	Definition
IDDD or I	International
NATL or N	Domestic
PRIV or P	Private

Data Rules:

For 5E8 only, when NON is entered, TRIG NBR must be entered.

4.17 TRIG NBR

Description: Enter the Network Services trigger as defined on the NSTRIG form.

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

Data Rules:

For each row of the CONFLICT RESOLUTION ENTRIES list, when TRIG NBR is entered,

- TERM LATA cannot be entered, and
- CDI must also be entered.

For 5E8 only, if ASP OFC on an OFCOPT form equals "SSP", and TRIG NBR equals TRIG NBR on an NSTRIG form where APPLICATION equals "ASP", NON must also be assigned.

If TRIG NBR equals TRIG NBR on an NSTRIG form with SERV KEY equal to "CDPN", and NBR DIG is neither 7 nor greater than 9, ALT GBL TITLE on NSTRIG must be known.

If TRIG NBR equals TRIG NBR on an NSTRIG form with APPLICATION equal to "E911", CALL TYPE must equal "EMER" and CI TYPE equal "INTRA".

For a CALL TYPE of "EMER" or "NORMAL", if TRIG NBR is entered and APPLICATION on the corresponding NSTRIG form

- is "E911" or "800", ROUTE INDEX or NXX cannot be entered;
- is "ASP", ROUTE INDEX or NXX must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered.

For 5E15 and later, when CONFRES.CALL TYPE is "RELAY", CONFRES.TRIG NBR must not be entered.

4.18 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

4.19 DFLT RT

Description: The DFLT RT field is used to identify the type of default routing treatment to be used for the ASP Default Routing for 3/6/10-Digit Triggers (Phase 1) Special Feature. When the ASP Special Feature has been purchased, this field can be used to specify the type of default routing to occur when an ASP specific digit trigger query fails.

Software Release: 5E10 and later

Default: NONE

Valid Entries:

Valid DFLT RT Entries	
Entry	Definition
ANNC	Default route to announcement (or tone). The call will route to either a tone or announcement, depending on what is defined for the route.
DLDN	Default route to dialed DN. The call will route to the DN dialed (or the DN being routed to if the call came from a trunk).
NONE	No default routing. No special default routing will take place, and normal call treatment will send the call to reorder or NCA (No Circuits Available).

Data Rules:

For 5E9(2) and earlier, if an RDIT form has a DFLT RT or CONFLICT RESOLUTION ENTRIES DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on the NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1"

For 5E10 and later, when the RDIT forms have a DFLT RT entry or a CONFLICT RESOLUTION ENTRIES DFLT RT entry other than "NONE", the corresponding TRIG NBR must be defined on a NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then SERVICE ALWD must not be "CSD".

When DFLT RT is not "NONE", either TRIG NBR must be entered or LNP TRIG NBR must be 1 - 255.

4.20 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later

Default: N

Valid Values: Y, N

5. FORM ENTRIES - 5300-8B RECORD

5.1 BASE AND CONTROL, ESS UNIT

CONFLICT RESOLUTION

Enter the Base and Control Group Number and Office Name on each record.

5.2 * RDIT

Description: Enter the Remaining Digits Interpreter Table Number.

Required Field.

Valid Entries: 1 - 999

5.3 * PREVIOUS DIGITS

Description: Enter the digits defined on the LDIT or MLDIT form as INCOMING DIGITS.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

5.4 * REMAINING DIGITS

Description: Enter the remaining digits.

Required Field.

Valid Entries: up to 15 digits (0 - 9)

5.5 LNP TRIG NBR

Description: Enter the LNP trigger number. The LNP trigger number is a conditional trigger which initiates a query to the SCP (Service Control Point) based on further routing determinations and checks following the trigger detection. checks following the trigger detection. The "IGN" entry means ignore.

Software Release: 5E11 and later

Required Field.

Default: IGN

Valid Values: IGN, or 1 - 255

Data Rules:

When LNP TRIG NBR is entered, CI TYPE must be "INTER", "INTRA", "TOLL", "COMP", "PRIV", "NONCI", "TCONF", or "CONFL".

5.6 GEO PORT

Description: Any geographically ported DNs? This field, when set to "Y", indicates geographic porting has occurred for at least one DN associated with this RDIT entry.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

Data Rules:

When GEO PORT is "Y", LNP TRIG NBR must be 1 - 255.

5.7 PORTED IN

Description: Any ported DN terminations? This field, when set to "Y", indicates that there exists at least one DN termination in this office associated with this LDIT digit translation even though a route index (not an office code) is provisioned for this RDIT translation.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

Data Rules:

When PORTED IN is "Y", CI TYPE must be "INTER", "INTRA", "TOLL", "COMP", "PRIV", "NONCI", "TCONF", or "CONFL".

When PORTED IN is "Y", RTI must be entered.

When PORTED IN is "Y", OFFICE CODE must be entered.

5.8 HOME LRN

Description: Is this a home location routing number? This field is set to "Y" when the LRN represents this switch or a rate center in this switch.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

5.9 LRN SCRIN

Description: Use screening attributes for LRN? This field is set to "Y" when the LRN a rate center in this switch which would imply that the TYP CI CALL and CDI from analysis of this LRN should be used.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Values: Y, N

5.10 INH DNT

Description: Inhibit processing of dialed number triggers?

Software Release: 5E11 and later
Required Field.
Default: N

Valid Values: Y, N

5.11 GETS HPC

Description: Is GETS (Government Emergency Telecommunication Service) HPC (High Probability Call Completion Service) required? The GETS HPC field is used as an indicator to mark GETS HPC calls so that enhanced functionality provided by other HPC capabilities (e.g., Trunk Queuing, ISUP Signaling, Exemption from Network Management Controls) can be invoked. When set to "Y", calls translated to this address receive special treatment resulting in a higher probability of call completion. For more information, see Division 2, Section 4A279.

The use of HPC Network Capabilities is restricted in the United States and U.S. Territories to National Security/Emergency Preparedness (NS/EP) users authorized by the Office of the Manager, National Communication System (OMNCS). Telco deployment of these HPC Network Capabilities must be co-ordinated with the OMNCS at the following address:

Office of the Manager
National Communication System
Attn: GETS Program Office
701 South Courthouse Rd
Arlington, VA, 22204-2198
email: gets@ncs.gov

Data Rules:

When GETS HPC in CONFLICT RESOLUTION ENTRIES is "Y"

- NBR DIG must be 10
- CALL TYPE must be "NORMAL"
- CI TYPE must be "COMP", "CONFL", "INTER", "INTRA", "NONCI", "PRIV", "SAC", "TCONF", "TOLL", or "WZ1"

5.12 DENY XFER

Description: This field is used to indicate if call transfers to a particular digit string should be denied.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E12 and later:

When DENY XFER in CONFLICT RESOLUTION ENTRY (CONFRES) is "Y", CALL TYPE must be "EMER".

When DENY XFER on the LDIT form is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y". "Y" being set on the SFSYS form indicates that the "Deny Transfer of Digit Screened Calls" feature has been purchased.

5.13 REL LINK

Description: Is this a release link directory assistance number? This field is used to indicate whether or not the digits being translated map to a release link directory assistance number.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For each row of the CONFLICT RESOLUTION ENTRIES (CONFRES) list, when REL LINK is "Y":

CALL TYPE must be "DA", "LOCDA", "NORM555", or "NORMAL".

One of the following two conditions must exist:

For the Release Link for Toll Office feature using ANSI (American National Standards Institute) standard signaling, the ACT field for SFID 520 on the SFSYS form (5713-1 Record) must be set to "Y"; or

For the Release Link for Toll Office feature using TOPS (Operating System for DMS (Data Management System)) nonstandard signaling, the ACT field for SFID 521 on the SFSYS form must be set to "Y".

5.14 NPA SPLIT ANNC

Description: Should caller be given a warning announcement if dialing a 7-digit or 10-digit number during permissive period of NPA (Numbering Plan Area) Split?

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NPA SPLIT ANNC in CONFLICT RESOLUTION ENTRIES is "Y", NBR DIG must be "7" or "10".

CALL TYPE	NBR OF DIGITS	TYPEs OF CI CALL	CODE INDEX	ROUTE INDEX	OFFICE CODE	DESEP
100	3 or 6	NONCI	required	optional	optional	
101R	3 or 6	NONCI	required	optional	optional	
101TAT	6 or 9	NONCI	required	optional	optional	
101TP	5 or 8	NONCI	required	optional	optional	
101	3 or 6	NONCI	required	optional	optional	

102	3 or 6	NONCI	required	optional	optional	
103	3 or 6	NONCI	required	optional	optional	
104R	3 or 6	NONCI	required	optional	optional	
104	3 or 6	NONCI	required	optional	optional	
105R	3 or 6	NONCI	required	optional	optional	
105	3 or 6	NONCI	required	optional	optional	
106		NONCI	required	optional	optional	
109R	3 or 6	NONCI	required	optional	optional	
606R	3 or 6	NONCI	required	optional	optional	
900	10	any	required	optional	optional	
		PSCAR	blank	blank	blank	
ADDON		NONCI	optional	required		
APSDN	3, 7, or 10	NONCI	blank	blank		
AUTINW	6 to 11	any but TRANS	required	required		
BBRITL	7	NONCI	blank	blank	blank	blank
BRITL	3 or 7	NONCI	blank	blank	blank	blank
BUSOFC	3	INTRA				
CONFLCT	7 or 10	blank	blank	blank	blank	blank
CSTL	3	NONCI	blank	blank	blank	blank
DA2VDT	10	any	required	optional	optional	
DA	7	any but TRANS	required	optional	optional	
ECP	1 - 15	NONCI	blank	blank	blank	blank
EMER	3	INTRA	required	optional	optional	
HNPAD	10	NONCI	blank	blank	blank	blank
IC1 to IC33	5	NONCI	required	optional	optional	
IDDDFCA	7 to 14	NONCI	required	required	blank	
IDDDSTS	6	NONCI	required	required	blank	
INV		NONCI	required	optional	optional	
INWATS	10	any	required	optional	optional	
LCP	3	NONCI	blank	blank	blank	blank
LOCDA	3	INTRA	required	optional	optional	
LTD	3	NONCI	blank	blank	blank	blank
MEETME		NONCI	optional	required		
NINV		NONCI	required	optional	optional	
NORMAL	3, 7, or 10	any	required			
		PSCAR	blank	blank	blank	blank
NS800	10	NONCI	blank	blank		
OCTL	3	NONCI	blank	blank	blank	blank
OPINW	6 to 11	any but TRANS	required	required		
OPNIT	10	any	required	optional	optional	
OSOIWTS	10	NONCI	blank	blank	blank	blank
PB	3	NONCI	required	optional	optional	
REPAIR	3	INTRA	required	optional	optional	
SD	7 or 10	NONCI	required	required		
SDNE	7 or 10	NONCI	required	optional	optional	
SPAM800	3, 7, or 10	NONCI	required			
SRTT	7	NONCI	blank	blank	blank	blank
STG1FCA	3 or 6	NONCI	blank	blank	blank	blank
SYN	3	NONCI	required	optional	optional	
VACANT	3, 7, or 10	NONCI or PSNCI	blank			
WETESTC	7 or 10	NONCI	allowed	allowed	allowed	allowed

Figure 1 CALL TYPE DEPENDENCIES

```

rdit                                5ESS Switch
SCREEN 1 OF 10                     OFFCE DATA ADMINISTRATION
(5300-8)                           REMAINING DIGIT INTERPRETER TABLE

```

```

*1. RDIT          _____      13. WZ1 REGION          _
*2. PREVIOUS DIGITS _____      14. TERM LATA          _
*3. REMAINING DIGITS _____      15. NATURE OF NUMBER _____
  4. CALL TYPE      NORMAL          16. TRIG NBR          _
  5. TYPE OF CI CALL _____      17. ESC CODE          N

```

6. NBR OF DIGITS	___	18. DFLT RT	NONE
7. CODE INDEX	___	19. INH OBL	N
8. ROUTE INDEX	___	20. INH ONA	N
9. POLYGRID	N	21. ANI BYPASS	N
10. NPA	___	22. REMARK	_____
11. OFFICE CODE	___		
12. DESEP	___		

```
rdit                                5ESS Switch
SCREEN 2 OF 10                      OFFCE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE
```

LOCAL NUMBER PORTABILITY	29. NODAL IDX	_
23. LNP TRIG NBR IGN	30. DN PREFD	N
24. GEO PORT N	31. GETS HPC	N
25. PORTED I N	32. DENY XFER	N
26. HOME LRN N		
27. LRN SCREENING N		
28. INH DNT N		

```
rdit                                5ESS Switch
SCREEN 3 OF 10                      OFFCE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE
```

33. CONFLICT RESOLUTION ENTRIES (CONFRES)

NBR CALL	CI									WZ1 TERM		TRIG ESC
ROW DIG TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
1	___	___	___	___	___	___	___	___	___	___	___	___

DFLT	INH	INH	ANI		LNP		GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS
ROW RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN		LRN	SCRN	DNT	IDX	PREFD	HPC
1	___	___	___	___	___	___	___	___	___	___	___	___	___	___

DENY

ROW XFER	
1	___

```
rdit                                5ESS Switch
SCREEN 4 OF 10                      OFFCE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE
```

33. CONFLICT RESOLUTION ENTRIES (CONFRES)

NBR CALL	CI									WZ1 TERM		TRIG ESC
ROW DIG TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
2	___	___	___	___	___	___	___	___	___	___	___	___

DFLT	INH	INH	ANI		LNP		GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS

ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
2	_____	-	-	-	_____	-	-	-	-	-	-	-	-	-

DENY

ROW XFER

2 -

rdit 5ESS Switch
 SCREEN 5 OF 10 OFFCE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOULTION ENTRIES (CONFRES)

ROW	DIG	TYPE	NBR CALL	CI	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	TRIG	ESC
3	_____	_____	_____	_____	_____	_____	_____	-	_____	_____	_____	_____	_____	_____	_____	_____

ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
3	_____	-	-	-	_____	-	-	-	-	-	-	-	-	-

DENY

ROW XFER

3 -

rdit 5ESS Switch
 SCREEN 6 OF 10 OFFCE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOULTION ENTRIES (CONFRES)

ROW	DIG	TYPE	NBR CALL	CI	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	TRIG	ESC
4	_____	_____	_____	_____	_____	_____	_____	-	_____	_____	_____	_____	_____	_____	_____	_____

ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
4	_____	-	-	-	_____	-	-	-	-	-	-	-	-	-

DENY

ROW XFER

4 -

rdit 5ESS Switch
 SCREEN 7 OF 10 OFFCE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOULTION ENTRIES (CONFRES)

NBR CALL	CI	WZ1 TERM	TRIG ESC

ROW	DIG	TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DFLT	INH	INH	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS	
ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DENY													
ROW	XFER													
5	—													

rdit 5ESS Switch
 SCREEN 8 OF 10 OFFCE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOULTION ENTRIES (CONFRES)

ROW	DIG	TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DFLT	INH	INH	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS	
ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DENY													
ROW	XFER													
6	—													

rdit 5ESS Switch
 SCREEN 9 OF 10 OFFCE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOULTION ENTRIES (CONFRES)

ROW	DIG	TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DFLT	INH	INH	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS	
ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DENY													
ROW	XFER													
7	—													

rdit 5ESS Switch
 SCREEN 10 OF 10 OFFCE DATA ADMINISTRATION

(5300-8)

REMAINING DIGIT INTERPRETER TABLE

33. CONFLICT RESOLUTION ENTRIES (CONFRES)

ROW	NBR	CALL	CI	CDI	RTI	POLY	NPA	NXX	DESEP	REG	WZ1	TERM	LATA	NON	TRIG	ESC
8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

ROW	RT	DFLT	INH	INH	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS
8	---	---	---	---	---	---	---	---	---	---	---	---	---	---

ROW	XFER	DENY
8	---	---

Figure 2 SAMPLE RDIT FORM 5E13 SOFTWARE RELEASE

rdit 5ESS Switch
 SCREEN 1 OF 10 OFFICE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

*1. RDIT	_____	13. WZ1 REGION	_____
*2. PREVIOUS DIGITS	_____	14. TERM LATA	_____
*3. REMAINING DIGITS	_____	15. NATURE OF NUMBER	_____
4. CALL TYPE	NORMAL	16. TRIG NBR	_____
5. TYPE OF CI CALL	_____	17. ESC CODE	N
6. NBR OF DIGITS	_____	18. DFLT RT	NONE
7. CODE INDEX	_____	19. INH OBL	N
8. ROUTE INDEX	_____	20. INH ONA	N
9. POLYGRID	N	21. ANI BYPASS	N
10. NPA	_____	22. REMARK	_____
11. OFFICE CODE	_____		
12. DESEP	_____		

Remaining digits interpreter table number. Enter 1 - 999.

rdit 5ESS Switch
 SCREEN 2 OF 10 OFFICE DATA ADMINISTRATION
 (5300-8) REMAINING DIGIT INTERPRETER TABLE

LOCAL NUMBER PORTABILITY	29. NODAL IDX	__
23. LNP TRIG NBR	IGN	30. DN PREFD
24. GEO PORT	N	31. GETS HPC
25. PORTED IN	N	32. DENY XFER

26. HOME LRN N 33. REL LINK N
27. LRN SCREENING N
28. INH DNT N

```
rdit                                5ESS Switch
SCREEN 3 OF 10                     OFFICE DATA ADMINISTRATION
(5300-8)                           REMAINING DIGIT INTERPRETER TABLE


                               34. CONFLICT RESOLUTION ENTRIES (CONFRES)

      NBR CALL          CI                      WZ1 TERM           TRIG ESC
ROW DIG TYPE          TYPE    CDI   RTI     POLY NPA NXX DESEP REG LATA NON  NBR CODE
  1  _         _         _         _         _         _         _         _         _         _         _         _

      DFLT INH INH ANI        LNP            GEO   PORTED HOME LRN   INH NODAL DN       GETS
ROW RT   OBL ONA BYPASS TRIG NBR PORT IN             LRN   SCRNR DNT IDX   PREFD HPC
  1  _         _         _         _         _         _         _         _         _         _         _         _

      DENY REL
ROW XFER LINK
  1  _         _
```

[illegible]

```

rdit                                5ESS Switch
SCREEN 5 OF 10                      OFFICE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE

                                34. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL      CI                      WZ1 TERM      TRIG ESC
ROW DIG TYPE      TYPE  CDI  RTI    POLY NPA NXX DESEP REG LATA NON  NBR  CODE
  3  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DFLT INH INH ANI    LNP      GEO  PORTED HOME LRN  INH NODAL DN    GETS
ROW RT  OBL ONA BYPASS TRIG NBR PORT IN    LRN  SCR N DNT IDX  PREFD HPC
  3  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DENY REL
ROW XFER LINK
  3  _  _

```

```

rdit                                5ESS Switch
SCREEN 6 OF 10                      OFFICE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE

                                34. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL      CI                      WZ1 TERM      TRIG ESC
ROW DIG TYPE      TYPE  CDI  RTI    POLY NPA NXX DESEP REG LATA NON  NBR  CODE
  4  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DFLT INH INH ANI    LNP      GEO  PORTED HOME LRN  INH NODAL DN    GETS
ROW RT  OBL ONA BYPASS TRIG NBR PORT IN    LRN  SCR N DNT IDX  PREFD HPC
  4  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DENY REL
ROW XFER LINK
  4  _  _

```

```

rdit                                5ESS Switch
SCREEN 7 OF 10                      OFFICE DATA ADMINISTRATION
(5300-8)                            REMAINING DIGIT INTERPRETER TABLE

```

```

                                34. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL      CI                      WZ1 TERM      TRIG ESC
ROW DIG TYPE      TYPE  CDI  RTI    POLY NPA NXX DESEP REG LATA NON  NBR  CODE
  5  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DFLT INH INH ANI    LNP      GEO  PORTED HOME LRN  INH NODAL DN  GETS
ROW RT   OBL ONA BYPASS TRIG NBR PORT IN      LRN  SCRN DNT IDX  PREFD HPC
  5  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DENY REL
ROW XFER LINK
  5  _  _

```

```

rdit                                5ESS Switch
SCREEN 8 OF 10                      OFFICE DATA ADMINISTRATION
(5300-8)                          REMAINING DIGIT INTERPRETER TABLE

```

```

                                34. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL      CI                      WZ1 TERM      TRIG ESC
ROW DIG TYPE      TYPE  CDI  RTI    POLY NPA NXX DESEP REG LATA NON  NBR  CODE
  6  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DFLT INH INH ANI    LNP      GEO  PORTED HOME LRN  INH NODAL DN  GETS
ROW RT   OBL ONA BYPASS TRIG NBR PORT IN      LRN  SCRN DNT IDX  PREFD HPC
  6  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DENY REL
ROW XFER LINK
  6  _  _

```

```

rdit                                5ESS Switch
SCREEN 9 OF 10                      OFFICE DATA ADMINISTRATION
(5300-8)                          REMAINING DIGIT INTERPRETER TABLE

```

```

                                34. CONFLICT RESOLUTION ENTRIES (CONFRES)
      NBR CALL      CI                      WZ1 TERM      TRIG ESC
ROW DIG TYPE      TYPE  CDI  RTI    POLY NPA NXX DESEP REG LATA NON  NBR  CODE
  7  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _  _

      DFLT INH INH ANI    LNP      GEO  PORTED HOME LRN  INH NODAL DN  GETS
ROW RT   OBL ONA BYPASS TRIG NBR PORT IN      LRN  SCRN DNT IDX  PREFD HPC

```


34. CONFLICT RESOLUTION ENTRIES (CONFRES)														
	NBR CALL		CI							WZ1 TERM			TRIG ESC	
ROW	DIG	TYPE	TYPE	CDI	RTI	POLY	NPA	NXX	DESEP	REG	LATA	NON	NBR	CODE
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DFLT	INH	INH	ANI	LNP	GEO	PORTED	HOME	LRN	INH	NODAL	DN	GETS	
ROW	RT	OBL	ONA	BYPASS	TRIG	NBR	PORT	IN	LRN	SCRN	DNT	IDX	PREFD	HPC
8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	DENY	REL												
ROW	XFER	LINK												
8	—	—												

Figure 3 SAMPLE RDIT FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 3I: 5302-1 RECORD CHARGE INDEX EXPANSION FORM - CGIDX

1. GENERAL

The 5302-1 Record is available in 5E2 and later Software Releases and is used to define Charge Indexes. This record must be completed for each Charge Index that is assigned on an RAR form (5301 Record).

Several AMA (Automatic Message Accounting) Call Types are available for OUTWATS billing to distinguish between IntraLATA (Local Access And Transport Area) and InterLATA calls. If a SPECIAL BILL NBR is defined on a PFASFG form (5609-3 Record), this number will be used as the billing number. If a SPECIAL BILL NBR is not defined, the terminal's billing number will be used.

Other AMA Call Types are available for additional billing requirements of Carrier Interconnect. For calls originating from a coin telephone and destined for a carrier, a FGBOL (Feature Group B Originating LATA) or FGDOL (Feature Group D Originating LATA) billing record is needed. For these Feature Group originating calls, the Charge Index is defined with an MBI TYPE equal to "C", and a CNCHG form (5302-4 Record) must also be entered. FGBOL and FGDOL Charge Indexes may also be defined for non-coin use.

For 5E6 and later Software Releases, operating companies can make use of two fields (ALT SFC and ALT CC) on this form to control the recording of an SFC (Service Feature Code) or CC (Call Code). The ALT SFC field is used to identify a specific feature invoked during a call; ALT CC is used to identify a specific service provided to an end user.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CHARGE INDEX

Description: Enter the Charge Index being defined.

Required Field.

Valid Entries:

For 5E3 and later: 1 - 2047

2.3 # AMA CALL TYPE

Description: Enter the AMA Call Type assigned to the Charge Index. Valid entries for this field are a subset of the AMA CALL TYPES defined on the AMACT form (5506 Record).

Required Field.

Valid AMA CALL TYPE Entries	
Entry	Definition
ATTSP	AT&T Station Paid. Used by an IEC (Interexchange Carrier) switch on calls from an Equal Access End

	Office or Access Tandem using Equal Access Signaling, or from directly connected lines. Call Type 60.
CCSAS	Software Release: 5E3 and later. CCSA (Common Control Switching Arrangement) Sampling. Call code 21.
CFPFNA	No Simulated Answer for Call Forwarding over Private Facilities. Same as "TANTTK" except call processing does not generate simulated answer. Call code 32.
CMC	Software Release: 5E4(2) and later. Cellular Mobile Carrier. Used for billing when an incoming call originates on a Trunk Group defined on a TKGPR form (5202 Record) with the CMC field set to "Y". Call Code 306.
DA411	Local Directory Assistance calls. When used for coin, this field must also contain an MBI (Message Billing Index) assigned on a CNCHG form. Call code 9.
DA555	Toll Directory Assistance calls. When used for coin, this field must also contain an MBI assigned on a CNCHG form. Call code 33.
DMRT	Detail billed, message rate, timed. Call code 5.
DMRTM	Detail billed, message rate, timed, includes an MBI. Call code 1.
DMRUM	Detail billed, message rate, untimed, includes an MBI. Call code 3.
ETCCSA	Software Release: 5E3 and later. Electronic Tandem CCSA. Call code 99.
ETMDR	Software Release: 5E3 and later. Electronic Tandem Message Detail Recording (via Revenue Accounting Office). Call code 85.
FGBOL	Feature Group B Originating LATA. Call code 134.
FGBTL	Feature Group B Terminating LATA. Call code 135.
FGDOL	Feature Group D Originating LATA. Call code 110.
FGDTL	Feature Group D Terminating LATA. Call code 119.
FGDWBL	Feature Group D WATS (Wide Area Telephone Service) Originating LATA. Used for interLATA calls with a Group Billing Number. Call code 114.
FR	Flat-rate calls. This AMA Call Type should be used for local calls from telephone subscribers having flat-rate service. AMA CALL TYPE "FREE" should be used for free calls from a flat-rate line. Call code 67. (Recorded only if under study.)
FREE	Free calls. This AMA CALL TYPE should be used for all free calls from non-coin lines. Free calls from coin lines should be assigned AMA CALL TYPE "LOCN". Calls to Traffic Service Position System, tones, announcements, business office and free terminating line service are normally designated as free. Call code 74. (Recorded only if under study.)
FX	Foreign Exchange. Call code 11.
ICVPN	Software Release: 5E6 and later. Originating Access to an IEC Private Virtual Network. Call code 263.
ISDATA	Software Release: 5E3 and later. ISDN data intraLATA Circuit-Switched calls. Call code 072.
ISDNOL	Software Release: 5E3 and later. ISDN data originating interLATA Circuit-Switched calls. Call code 117.
ISDNTL	Software Release: 5E3 and later. ISDN data terminating interLATA Circuit-Switch calls. Call code 121.
LOCN	Local coin calls. This AMA CALL TYPE should be used for all calls from coin lines except calls to local or toll Directory Assistance. For those calls, AMA CALL TYPEs "DA411" and "DA555" should be used. "FGBOL" and "FGDOL" may also be defined for coin calls. This AMA CALL TYPE must contain an MBI assigned on a CNCHG form. A "C" must be entered in the MBI TYPE field for this AMA CALL TYPE. Call code 41.
MRTM	Message rate, timed, includes an MBI. Call code 2.
MRUM	Message rate, untimed, includes an MBI. Call code 4.
PSVC	Software Release: 5E4(2) and later. ISDN Packet Switching Virtual Call. Call code 080 (5E4(2) and 5E5). Call code 180 (5E6 and later).
PSIVC	Software Release: 5E4(2) and later. ISDN Packet Switching Intra Group Virtual Call. Call code 378.
SP	Station paid. Provides details for a direct dialed, station paid 7 or 10-digit call. Call code 6.
TANTTK	Tandem Tie Trunk calls. Call code 32.
WATISB	WATS individual station paid. Used for intraLATA calls with a Station Billing Number. Call code 7.
WATSB	WATS using a Special Billing Number. It is for intraLATA calls with a Group Billing Number. Call code 68.
WATSBL	WATS station billed interLATA. Used for interLATA calls with a Station Billing Number. Call code 111.

2.4 MBI TYPE

Description: Enter the MBI (Message Billing Index) Type.

Required Field.

Valid MBI TYPE Entries	
Entry	Definition
C	Coin use only. Allowed only for AMA CALL TYPEs of "DA411", "DA555", "LOCN", "FGBOL", and "FGDOL".
M	Message Register use only. Allowed only for AMA CALL TYPEs of "DMRT", "DMRTM", "DMRUM", "FR", "MRTM", or "MRUM".
N	Non-coin, non-Message Register use only.

Data Rules:

If a "C" or "M" is entered, an MBI/WATS BAND must be entered.

2.5 MBI/WATS BAND

Description: Enter either an MBI Number, or a WATS Band Number.

Valid Entries: 0 - 9 for WATS, 1 - 255 for MBI

Data Rules:

An entry is required in this field when the MBI TYPE is "C" or "M", or when the AMA CALL TYPE is "WATSB".

For an MBI TYPE of "C", the MBI entered in this field must be defined on the CNCHG form. This record provides coin charge information which is used on the AMA record. This is determined by the value entered in the INCLUDE MBI/WATS BAND field on the AMACT form (5506 Record) for the specified AMA CALL TYPE. Normally, the MBI will not be included on the AMA record.

For an MBI TYPE of "M", the MBI entered in this field must be defined on an MREG form (5302-5 Record). This record provides Message Register data. If the MBI is to be used as a Hotel/Motel message register, it must be defined on the MREG form. In addition, the MBI may or may not be included on the AMA record. This is determined by the value entered in the INCLUDE MBI/WATS BAND field on the AMACT form for the specified AMA CALL TYPE. WATSB", "WATISB", "WATSBL" or "FGDWBL"; however, the values 0 - 9 are usually used; 1 - 255 for all other AMA CALL TYPEs.>

2.6 WATS TYPE

Description: Enter the WATS Type.

Valid WATS TYPE Entries	
Entry	Definition
MT	Measured Time.
FB	Full Business Day.

Data Rules:

This field requires an entry for AMA CALL TYPEs "WATSB", "WATISB", "WATSBL", and "FGDWBL". An entry is prohibited for all other AMA CALL TYPEs.

2.7 DATA CHARGE INDEX

Description: Enter the charge index associated with ISDN Circuit-Switched data calls. This index provides a means to charge data calls differently from a voice call.

If the data call is to be charged the same as a voice call, this index should have the same value as the CHARGE INDEX entry. For voice calls, this field can be left blank or have the same value as the CHARGE INDEX field.

If this field is left blank, it will be defaulted to the CHARGE INDEX value.

Software Release: 5E3 and later

Valid Entries: 1 - 2047

Data Rules:

If the DATA CHARGE INDEX value is the same as the CHARGE INDEX value on another CGIDX form, the DATA CHARGE INDEX field on the other CGIDX form must be left blank. The DATA CHARGE INDEX entered must be defined on another CGIDX form as the key if it differs from the CHARGE INDEX entry.

2.8 REMARKS

Description: Enter any descriptive comments deemed locally necessary.

Valid Entries: up to 16 characters

2.9 ALT SFC

Description: Enter the Alternate SFC (Service Feature Code) used to identify a specific feature of the service invoked in a call.

Software Release: 5E6 and later

Valid Entries: 800 - 999

2.10 ALT CC

Description: Enter the Alternate Service Call Code used to identify a specific service provided to an end user.

Software Release: 5E6 and later

Valid Entries: 800 - 999

2.11 MAX OWATS

Description: Is this a Maximal Subscribed OUTWATS charge index?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "N" when AMA CALL TYPE is not "WATSB", "FGDWBL", "WATISB", or "WATSBL".

cgidx
(5302-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
CHARGE INDEX EXPANSION

—

* 1. CHARGE INDEX 1010
2. AMA CALL TYPE ISDATA
3. MBI TYPE N
4. MBI / WATS BAND ____
5. WATS TYPE ____
6. DATA CHARGE INDEX 1010
7. REMARK ISDN DATA CALLS

Figure 1 SAMPLE CGIDX FORM 5E3 - 5E5 SOFTWARE RELEASES

cgidx 5ESS Switch _
(5302-1) OFFICE DATA ADMINISTRATION
CHARGE INDEX EXPANSION

*1. CHARGE INDEX 1010
#2. AMA CALL TYPE ISDATA
3. MBI TYPE N
4. MBI / WATS BAND ____
5. WATS TYPE ____
6. DATA CHARGE INDEX 1010
7. REMARK ISDN DATA CALLS
8. ALT SFC ____
9. ALT CC ____
10. MAX OWATS N

Figure 2 SAMPLE CGIDX FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3K: ESS 5302-3 RECORD MESSAGE REGISTER RATE RECORD - RATE

1. GENERAL

The 5302-3 Record is available with 5E2 and later Software Releases and is used to define the Charge Rate assigned to the 24 hours of the day for Message Registers.

The Message Register Rate Record provides charge data for each day of the week and holiday in half-hour increments. This permits the user to have flexibility in Message Register Charging.

For an initial office, ODA builds the RATE forms. Therefore, minimal changes need to be made by the user. See Figure 1 for RATE entries built by ODA.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.15.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and Office Name on each record.

2.2 * DAY

Description: Enter day of the week or holiday.

The days of the week and holiday are preprinted on the 5302-3 Record.

Required Field.

Valid DAY Entries	
Entry	Definition
MON	Monday
TUE	Tuesday
WED	Wednesday
THU	Thursday
FRI	Friday
SAT	Saturday
SUN	Sunday
HOL	Holiday

2.3 RATE

Description: The 24 hours of the day, in half hour increments, are preprinted on the form. For each DAY/TIME period, enter the Charge Rate.

Valid RATE Entries	
Entry	Definition
D	Day
E	Evening
N	Night

RATE ENTRIES BUILT BY ODA				
HOURS	MON - FRI	SAT	SUN	HOL

00:00-07:59	N	N	N	N
08:00-16:59	D	N	N	N
17:00-22:59	E	N	E	N
23:00-23:59	N	N	N	N

Figure 1 RATE ENTRIES BUILT BY ODA

```

rate                               5ESS Switch      —
5302-3                            OFFICE DATA ADMINISTRATION
                                   MESSAGE REGISTER RATE

```

```

* 1.  DAY  MON

```

```

2.  00:00-00:29  D  14. 06:00-06:29  D  26. 12:00-12:29  D  38. 18:00-18:29  D
3.  00:30-00:59  D  15. 06:30-06:59  D  27. 12:30-12:59  D  39. 18:30-18:59  D
4.  01:00-01:29  D  16. 07:00-07:29  D  28. 13:00-13:29  D  40. 19:00-19:29  D
5.  01:30-01:59  D  17. 07:30-07:59  D  29. 13:30-13:59  D  41. 19:30-19:59  D
6.  02:00-02:29  D  18. 08:00-08:29  D  30. 14:00-14:29  D  42. 20:00-20:29  D
7.  02:30-02:59  D  19. 08:30-08:59  D  31. 14:30-14:59  D  43. 20:30-20:59  D
8.  03:00-03:29  D  20. 09:00-09:29  D  32. 15:00-15:29  D  44. 21:00-21:29  D
9.  03:30-03:59  D  21. 09:30-09:59  D  33. 15:30-15:59  D  45. 21:30-21:59  D
10. 04:00-04:29  D  22. 10:00-10:29  D  34. 16:00-16:29  D  46. 22:00-22:29  D
11. 04:30-04:59  D  23. 10:30-10:59  D  35. 16:30-16:59  D  47. 22:30-22:59  D
12. 05:00-05:29  D  24. 11:00-11:29  D  36. 17:00-17:29  D  48. 23:00-23:29  D
13. 05:30-05:59  D  25. 11:30-11:59  D  37. 17:30-17:59  D  49. 23:30-23:59  D

```

Figure 2 SAMPLE RATE FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3L: 5302-4 RECORD COIN CHARGE FORM - CNCHG

1. GENERAL

The 5302-4 Record is available with 5E2 and later Software Releases, and is used for a Message Billing Index that is assigned to a Coin Charge Index.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.13.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MBI

Description: Enter the Message Billing Index number assigned to the Coin Charge Index. Message Billing Indexes are assigned on the 5302-1 Record.

Required Field.

Valid Entries: 1 - 255

2.3 COIN CALL TYPE

Description: Enter the Type of Coin Call.

Valid COIN CALL TYPE Entries	
Entry	Definition
FREE	Used for free calls which do not require operator inband or expanded inband signaling. These calls do not require an initial coin deposit. If a coin is deposited, it is returned.
LOCL	Local coin calls which require an initial coin deposit to complete the call. Not timed.
LOVT	Local timed coin calls which require an initial coin deposit to complete the call. The initial coin deposit is collected 30 seconds before the end of the initial time period. At the end of the initial time period, the LCOP (Local Coin Overtime Prompt) announcement is connected to both parties of the call. If there is no additional coin deposit within 30 seconds, the call is disconnected.
OPR	Any call which uses a Route Index associated with a Trunk Group that has a trunk class of either "TSPS" or "RECCMPL". The coin is collected or returned based upon options set for the operator Trunk Group. The converse is also true: if the COIN CALL TYPE is not "OPR", it may not be associated with either "TSPS" or "RECCMPL".

2.4 INITIAL MINUTES

Description: Initial Minutes are entered only when the Call Type is "LOVT". This field defines the duration in minutes of the initial time period. An entry of 0 indicates that the initial period is not timed.

Valid Entries: 0 - 7 (minutes)

2.5 OVERTIME MINUTES

Description: Overtime Minutes are entered only when the Call Type is "LOVT". This field defines the duration

in minutes of the overtime period. An entry of 0 indicates that the overtime period is not timed.
Valid Entries: 0 - 7 (minutes)

cnchg	5ESS Switch	—
5302-4	OFFICE DATA ADMINISTRATION	
	COIN CHARGE	

- * 1. MBI 019
- 2. COIN CALL TYPE FREE
- 3. INITIAL MINUTES —
- 4. OVERTIME MINUTES —

Figure 1 SAMPLE CNCHG FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3M: 5302-5 RECORD MESSAGE - MREG

1. GENERAL

The 5302-5 Record is available with 5E2 and later Software Releases, and is used to define Message Billing Index numbers assigned to Message Registers.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.14.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MBI

Description: Enter the Message Billing Index number assigned to the Message Register. Message Billing Indexes are assigned on the 5302-1 Record.

Valid Entries: 1 - 255

MESSAGE REGISTER DATA

These fields (Section 2.3 - Section 2.7) are used to assign the rate and the initial and overtime charging for Message Registers.

For each charge rate (night, evening, and day) enter the following information.

2.3 * RATE

Description: Enter the Charge Rate.

Required Field.

Valid RATE Entries	
Entry	Definition
D	Day Rate
E	Evening Rate
N	Night Rate

2.4 INITIAL MINUTES

Description: Enter the duration, in minutes, of the initial time period.

Valid Entries: 0 - 7 (minutes)

2.5 INITIAL M.R. PEGS

Description: Enter the initial time period Message Register pulses.

Valid Entries: 0 - 15

2.6 OVERTIME MINUTES

Description: Enter the duration, in minutes, of the Overtime Period.
Valid Entries: 0 - 7 (minutes)

2.7 OVERTIME M.R. PEGS

Description: Enter the overtime period Message Register pulses.
Valid Entries: 0 - 15

mreg	5ESS Switch	—
5302-5	OFFICE DATA ADMINISTRATION	
	MESSAGE REGISTER TIME & CHARGE	

* 1.	MBI	024
* 2.	RATE	D
3.	INITIAL MINUTES	3
4.	INITIAL M.R. PEGS	01
5.	OVERTIME MINUTES	1
6.	OVERTIME M.R. PEGS	01

Figure 1 SAMPLE MREG FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3P: 5303-1/2 RECORD ROUTE INDEX FORM - RTIDX

1. GENERAL

The 5303 Record is used to define each Route Index in a 5ESS Switch. The 5303 record is intended to be used as an office record and as a source document for data entry into the RTIDX form.

A Route Index is the output from a Rate and Route Table and is used to define the routing of a call. A Telephone Number may also contain a Route Index for applications requiring special routing (e.g., PBX-DID (Private Branch Exchange-Direct Inward Dialing)).

The Route Index may be an output of the digit analysis form or carrier interconnect form entries as a Regular Route Index, or it may be a Special Route Index found in the Rate and Route Table which overrides the Regular Route Index. A Route Index may also come from a PFAGPA form (5609-5 Record).

The RTIDX form defines the type of routing, the Trunk Group Number to be used, the number of digits to be deleted or prefixed, and an alternate Route Index number.

1.1 Fixed Route Types

Fixed Route Types may require a Route Index assignment. The first one hundred route indexes should be reserved for Fixed Route Types. When a Fixed Route Type is translated as a tone, a Route Index is not required. However, when it is translated as an Announcement or a Trunk Group, a ROUTE INDEX must be assigned. Fixed Route Types are defined on the FIXRT form (5301-1 Record).

1.2 Recent Change View

The corresponding Recent Change View for this form is 10.2. (See also DTRTX (5314 Record) Division 3, Section 3AA for 10.2.)

2. FORM ENTRIES 5303-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each page of the record.

2.2 *ROUTE INDEX

Description: Enter the number of the Route Index being defined.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

ROUTE INDEX cannot exceed 3617 unless the Increased Number of Trunk Groups feature has been purchased and the ACT field for SFID 172 on the SFSYS form is set to "Y".

ROUTE INDEX cannot exceed 4095 unless the LDP Routing Enhancement feature has been purchased and the ACT field for SFID 189 on the SFSYS form is set to "Y".

ROUTE INDEX cannot be deleted when it is used as an RTI or an RTIDX on the RTLIST form.

2.3 ROUTE TYPE

Description: These columns define the type of routing treatment.

Required Field.

Valid ROUTE TYPE Entries	
Entry	Definition
HUNT	Hunt for an idle trunk member.
DNTRAN	Software Release: 5E5 and later. Directory Number Transaction. Used for Inter-module trunks secondary routes across NCT links. If an originating call with this ROUTE TYPE terminates on the same switch, the call will terminate across the NCT links. When routing to another switch, a call with this ROUTE TYPE will fail.
BUSY	Busy tone.
MAINT	This is a Recent Change Entry. See "TEST" for the definition.
REORDER	Reorder tone.
TEST	Toll Test calls. For Recent Change View 10.2, enter "MAINT" .

Data Rules:

HUNT - For 5E9(1) and later, ROUTE TYPE must be "HUNT" when the associated trunk group is defined on a TKGRP form with TRKCLS set to "LTPCLBCK", "LTPDCTU", "PACKET", "RAFANNC", "RAFCTR", or "RAFDTA"; it must be "HUNT" or "TEST" when TRKCLS is "LTPISTFL" or "LTPISTFX".

For 5E13 and earlier, when ROUTE TYPE is "HUNT" and the TRUNK GROUP NUMBER is defined as a TGN on the TKGRP form with IMT set to "N", the NEXT ROUTE on the RTIDX form must match the ROUTE INDEX on a second RTIDX form.

TEST - For 5E5 and later, A ROUTE TYPE of "TEST" must be entered when the associated LDIT form has a CALL TYPE of 100, 101, 101R, 101TAT, 101TP, 102, 103, 104, 104R, 105, 105R, 106, 109R, 606R, IC1, IC2, IC3, IC4, IC5, IC6, IC7, IC8, IC9, INV, NINV, PB, or SYN.

DNTRAN - For 5E9(1) and later, a FIXED ROUTE TYPE may not be assigned to a ROUTE INDEX that has a corresponding RTIDX form with ROUTE TYPE of "DNTRAN".

For 5E12 and earlier:

- when ROUTE TYPE is set to "DNTRAN" and CI ROUTE TYPE is set to "NMFAIL", NEXT ROUTE must be defined as the NOC on the NOC form.
- when ROUTE TYPE is set to "DNTRAN" and CI ROUTE TYPE is "NMFAIL", another RTIDX form must exist with ROUTE TYPE set to HUNT and the NEXT ROUTE must match the ROUTE INDEX on the RTIDX form.

For 5E13 only:

when ROUTE TYPE is set to "DNTRAN" and CI ROUTE TYPE is set to "CALLFORWARD", NEXT ROUTE must be defined as a valid NOC on a NOC form.

when ROUTE TYPE is set to "DNTRAN" and CI ROUTE TYPE is set to "CALLFORWARD", another

RTIDX form must exist with ROUTE TYPE set to "HUNT" and the NEXT ROUTE must match the ROUTE INDEX on the corresponding RTIDX form. In addition, the INTER SM TRK must be set to "N" on the TKGRP form and TRUNK GROUP NUMBER on the RTIDX form must match the TGN on the TKGRP form.

For 5E13 and later:

When ROUTE TYPE is not "DNTRAN",

NEXT ROUTE must be 1 - 16382.

the value of NEXT ROUTE must not be the same as the key ROUTE INDEX.

When ROUTE TYPE is "DNTRAN", NEXT ROUTE must be 1 - 8190.

2.4 # TRUNK GROUP NUMBER

Description: Enter the Trunk Group Number assigned to the Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 - 5E14: 1 - 4000

For 5E15: 1 - 4000 for circuit trunk groups or 7000 - 7999 for BICC groups

For 5E16(2) and later: 1 - 4000

Entries greater than 999 are allowed only when the range of 1- 999 is completely exhausted.

Data Rules:

The trunk group must be defined on a TKGRP form (5202 Record) where TRK DIR is not "INC".

If ROUTE TYPE is "HUNT" or "TEST", this field must be entered; otherwise, it must be blank.

If the ROUTE TYPE is "TEST", the associated TKGRP form must have a TRKCLS of "LTPICTC" entered.

If the TRUNK GROUP NUMBER is defined on the TKGRP form with TRKCLS of "PACKET", "X75P" or "X75", then the following fields on the RTIDX form must be assigned as follows:

- ROUTE TYPE: "HUNT"
- DIGITS TO BE DELETED: 0 (zero)
- PREFIX DIGITS: not entered
- ANI OUTPUTSING: "N"
- OVERLAP OUTPUTSING: "N"
- SIGNALING PROTOCOL: "TRAD"
- CI ROUTE TYPE: "OTHER"

When TRKCLS is "LTPICTC" on the corresponding TKGRP form, the following fields must be set as specified:

- ROUTE TYPE: "HUNT" or "TEST"
- DIGITS TO BE DELETED: 0
- PREFIX DIGITS: blank
- ANI OUTPUTSING: "N"
- OVERLAP OUTPUTSING: "N"

- SIGNALING PROTOCOL: "TRAD"
- CI ROUTE TYPE: "OTHER"; for 5E7 and later,
- it may also be "GENANN".

Additionally, for 5E7 and later, the NEXT ROUTE on this form must either be blank or it must point to another RTIDX form where ROUTE TYPE is "REORDER".

For 5E7 and later, when TRKCLS on the corresponding TKGRP form is "LTPISTFL" or "LTPISTFX", the following fields must be set as specified:

ROUTE TYPE: "HUNT"
DIGITS TO BE DELETED: 0
PREFIX DIGITS: blank
ANI OUTPUTSING: "N"
OVERLAP OUTPUTSING: "N"
SIGNALING PROTOCOL: "TRAD"
CI ROUTE TYPE: "OTHER".

For 5E7 and later, if TRUNK GROUP NUMBER is defined on a TKGRP form with a TRKCLS of "TSPS", then SIGNALING PROTOCOL on the RTIDX form cannot be "INC" or "FGB".

For 5E9(1) and later, if the TRUNK GROUP NUMBER is assigned as a TGN on the TKGRP form with a TRKCLS of "LTPDCTU", the CI ROUTE TYPE on this RTIDX form must be "OTHER". In addition, if a NEXT ROUTE is entered on this RTIDX, it should match with the ROUTE INDEX on another RTIDX form where ROUTE TYPE is "REORDER" or null.

For 5E12 and earlier, when a TRUNK GROUP NUMBER is entered and is assigned as TGN on the TKGRP form, and INTER SM TRK is "Y" on the TKGRP form and NEXT ROUTE matches the ROUTE INDEX on a second RTIDX form and ROUTE TYPE is "DNTRAN" on the second RTIDX form, there must be a corresponding NOC form. The NOC form is found by matching NEXT ROUTE on the RTIDX form with the NOC on the NOC form.

For 5E12 and later, when TRUNK GROUP NUMBER is entered, the TRUNK GROUP NUMBER must be defined on the TKGRP form.

For 5E12 and later, when TRUNK GROUP NUMBER is entered, and TRKCLS on the corresponding TKGRP form is "OTOTK", ROUTE TYPE must be "HUNT" and DIGITS TO BE DELETED must be in the range of 0 - 10 on the RTIDX form.

For 5E13 and later, when the TRUNK GROUP NUMBER is entered, NEXT ROUTE must match the ROUTE INDEX on another RTIDX form.

5E16(2) and later:

When TRUNK GROUP NUMBER is entered on the RTIDX form, and PKT GRP is entered on the TKGRP form, then:

SIGNALING PROTOCOL must be "EA", "TRAD", "FGB", or "INC",

ROUTE TYPE must be "HUNT",

CI ROUTE TYPE must be "OTHER", "STG", or "DTG" when SIPT GRP is "Y" and TRKCLS on TKGRP form is "TTOLLCON", "LATA", or "IC, otherwise it must only be "OTHER" or "STG",

OVERLAP OUTPUTPULSING must not be "Y", and

LEC OS must not be "Y".

When TRUNK GROUP NUMBER is entered on the RTIDX form, and on the TKGRP form PKT GRP is entered, and either BICC is "Y" or (SIPT is "Y" and TKCLS is "LTOLLCON") then:

FNL RT TRIG NBR must not be entered,

REL LINK TYPE must not be entered,

RTE SEARCH LMT must not be entered, and

TERM NSC must not be entered.

When TRUNK GROUP NUMBER is entered on the RTIDX form and on the TKGRP form PKT GRP is entered, SIPT is "Y", and TKCLS is "LTOLLCON" or "LATA", then:

REL LINK TYPE must not be entered.

When TRUNK GROUP NUMBER is entered on the RTIDX form and on the TKGRP form PKT GRP is entered, SIPT GRP is "Y", and TRKCLS is "LTOLLCON", "LATA", or "IC" then:

RTE SEARCH LMT and TERM NSC must not be entered.

2.5 DIGITS TO BE DELETED

Description: Enter the number of digits to be deleted.

Required Field.

Default: 0

Valid Entries: 0 - 15

Data Rules:

If ROUTE TYPE is "HUNT" or "TEST", this field must be entered. Otherwise, this field must be 0.

This field must be 0 for route indexes which point to Trunk Groups that are Logical Test Ports or have a Trunk Class of "RECCMPL" or "SERVICE".

This field should be 0 if this route index is pointed to by a PFA (Private Facility Access) dial code, defined on a PFAGPA form that is used to access a cut-through trunk (DIG COLL field on the PFAGPA form is "N").

For 5E6 and later, this field must be 0 when SIGNALING PROTOCOL is "EA".

■ **NOTE:** If the RTI was generated for a LINE or HGRPS form, the 5ESS Switch reconstructs a 7-digit TN for either line or trunk originated calls. Deleting and prefixing of digits should be based on the reconstructed 7-digit TN.

2.6 PREFIX DIGITS

Description: Enter the digits to be prefixed for outpulsing.
Valid Entries: from 1 to 10 digits

Data Rules:

An entry is allowed in this field if ROUTE TYPE is "HUNT" or "TEST".

This field must be left blank for route indexes which point to Trunk Groups that are Logical Test Ports or have a Trunk Class of "RECCMPL" or "SERVICE".

For Carrier Interconnect calls from an EAEO (Equal Access End Office) to an Access Tandem using equal access signaling, the prefix digits indicate OZZ codes (spare toll center codes) used in the initial outpulsing sequence. 1NX codes (also spare toll center codes) used in the initial outpulsing sequence for international calls, either on a direct or tandem connection, are also indicated by prefix digits.

If a code of "2ZZ" (where Z is any digit 0 - 9) is entered, it will be converted to 0ZZ before it is outpulsed. The 2ZZ code indicates that the called number will be outpulsed as dialed to an Access Tandem when the optional 7-digit Outpulsing feature is active on Shared Trunks (CI ROUTE TYPE is "STG") with EA (Equal Access) signaling (SIGNALING PROTOCOL IS "EA").

RP (Revertive Pulsing) is available and requires special digit prefixing for Trunk Groups with OUTPUTSING set to "RPEO" or "RPTO" on the TKGRP form. The appropriate number of digits need to be deleted so there are four remaining digits. For example, if the OUTPUTSING equals "RPEO" (i.e., the far end is an end office with RP), a 0 in PREFIX DIGIT, D1, indicates LOW 5 Directory Numbers, and a 5 indicates HIGH 5 Directory Numbers. By using two Route Indexes, one with 0 and one with 5, a Trunk Group may be used to terminate to two Office Codes. If the Trunk Group Outpulsing equals RPTO (i.e., the far end is a tandem office with RP), the Prefix Digits entered in consecutive order in D1, D2 and D3 are the Office Brush, Office Group and LOW 5/HIGH 5 indicator (0 or 5). This allows up to two hundred Office Codes to be accommodated on a Trunk Group.

For 5E7 and later, PREFIX DIGITS must not be entered if CKT CODE is greater than 0.

For 5E9(2) and later, the PREFIX DIGITS field on the RTIDX form must be blank when:

- The SIGNALING PROTOCOL on the RTIDX form is set to "EA".
- The TRUNK GROUP NUMBER on the RTIDX form is entered.
- The matching TKGRP form (found by matching TRUNK GROUP NUMBER of the RTIDX form with the TGN of the TKGRP form) has OUTPUTSING set to "ISUP7".
- TRKCLS on the same associated TKGRP form is "IC".

2.7 NEXT ROUTE

Description: Enter the alternate route index. The number of alternate routes supported is not a fixed quantity. Following are the alternate routing configurations currently supported:

- One primary and three alternate routes are supported if the following condition exists:
 - BRCS features or SFGs are assigned to any of the trunk groups in the route list.

- One primary and four alternate routes are supported if all the following conditions exist:
 - No BRCS features or SFGs are assigned to any of the trunk groups in the route list
 - All trunk groups in the route list are defined as local trunk groups. This is indicated by entering an SM number in the LOCAL SM field on the TKGRP form. In addition, all trunk members in the route list must be located on the same SM. (i.e. The TKGRP form for each trunk group in the route list would specify the same SM in the LOCAL SM field.)
- One primary and five alternate routes are supported if all the following conditions exist: (Refer to an exception to this configuration in the special case that follows).
 - No BRCS features or SFGs are assigned to any of the trunk groups in the route list.
 - All trunk groups in the route list are defined as GLOBAL which is indicated by leaving the LOCAL SM field on the TKGRP form blank. This is true even if all members in a trunk group are on the same SM.
- Special case: One primary and four alternate routes are supported if the following conditions exist:
 - The Route Index for the first route in the route list (primary route) is assigned to a DN on a LINE form.
 - A terminal group is assigned to lines that terminate calls to the route list by dialing the above DN.

An example of this case would be a route list consisting of PRI trunk groups to support access to Internet service providers. This scenario is often provisioned by assigning the Route Index for the primary route to an "access DN" via the LINE form. Normally, this scenario would provide five alternate routes as previously documented. However, if a terminal group is assigned to lines which access the route list by dialing the access DN, only four alternate routes can be expected.

In any of the above configurations, an additional alternate route may be added to the end of the route list assuming this last route is provisioned as "REORDER" or "BUSY". This is indicated by entering the appropriate treatment in the ROUTE TYPE field on this form.

When an alternate Route Index is defined for PFA (Private Facility Access) trunk, the trunk group associated with the alternate route index must have the same characteristics as the primary trunk group. For example, if a primary route points to a cut-through trunk, then the alternate route index should also point to a cut-through trunk.

For Circuit Switched Data calls, the Alternate Data Route Index is used for the first route, based on the bearer capability of the call. When an "all trunks busy" condition is encountered, the routes that are selected using the NEXT RTI do NOT select different alternate data routes (DATARATE ALT RI) based on the bearer capability, but use the trunk group specified by the selected NEXT RTI. Therefore, the trunk group that is referenced by the NEXT RTI must specifically support data calls for all bearer capabilities that the trunk group on the primary RTI can support. For example, if the Trunk Group pointed to by a particular Route Index supports 64K data calls, then the trunk group that the NEXT RTI points to MUST ALSO support 64K data calls.

If a true alternate Route Index is not required, the NEXT ROUTE INDEX is omitted and reorder will be automatically provided on overflow.

The NEXT ROUTE INDEX for DID-PBX trunks should route to busy.

Announcement Trunk Groups must have a next route index which goes to reorder.

Software Release: 5E5 and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11: 1 - 4095

For 5E12: 1 - 4095 or Normalized Office Code, 1 - 8190, when MC ROUTE TYPE is "DNTRAN"

For 5E13 and later: Blank, or 1 - 16382 or Normalized Office Code, 1 - 8190.

Data Rules:

This field should not be entered if the Trunk Group assigned to this Route Index is an X.75' or X.75 Trunk Group (TRKCLS is "X75P" or "X75" on the TKGRP form).

When ROUTE TYPE is not "DNTRAN", then:

- the value entered in this field must not equal the value of the Route Index being defined. That is, a Route Index may not alternate to itself.
- the Route Index entered in this field must be defined on an RTIDX form.
- for 5E13 and later, NEXT ROUTE must be 1 - 16382.

When ROUTE TYPE is "DNTRAN", a NOC (Normalized Office Code) must be entered in this field. The NOC entered must be defined on the NOC form (5501 Record) and, for 5E13 and later, NEXT ROUTE must be 1 - 8190.

Special Access Basic 800 trunk groups (TRKCLS of "SPAB800" on the TKGRP form) and MEGACOM 800 trunk groups (TRKCLS of "SPAM800" on the TKGRP form) must not have a NEXT ROUTE entered.

For 5E5 and later, IP (Internal Protocol) trunk groups may alternate route only to other IP trunk groups. That is, if TRUNK GROUP NUMBER is defined on a TKGRP form with TRKCLS set to "PACKET" (i.e. an IP trunk group), then the value entered in this NEXT ROUTE field must be defined as ROUTE INDEX on another RTIDX form that has a TRUNK GROUP NUMBER entered. That trunk group must also be defined on a TKGRP form that has TRKCLS set to "PACKET".

For DSN (Defense Switched Network) offices, this field should be entered as 0 if the ROUTE INDEX is used on the PPOLY form (5618-7 Record). This is required for DSN Network Management control CANF.

If the Proportionate Bidding feature has been purchased (SFID 34 on the SFSYS form (5713-1 Record) is set to "S") or "Y", this field cannot be in the range of 1001 - 1032 since Proportionate Bidding route indexes cannot be specified as secondary route indexes.

For 5E7 and later, up to seven RTIDX forms may be associated with each announcement trunk group where TRKCLS is "RAFANNC" or "EISTRK". The first is the primary routing form, which must point to an alternate routing form (NEXT ROUTE matches the ROUTE INDEX on another RTIDX form). Up to six alternate routing forms may be defined. The last form in the group may not have a NEXT ROUTE entered and must have

ROUTE TYPE set to "REORDER".

On the primary and all alternate RTIDX forms except the last:

- NEXT ROUTE must match a ROUTE INDEX on one of the other forms. To avoid an infinite loop (never reaching the "REORDER" route), NEXT ROUTE may not point to the primary RTIDX form, and no two NEXT ROUTE values may point to the same RTIDX form;
- When more than one alternate route index is defined, CI ROUTE TYPE must have the same value;
- When TRKCLS on the TKGRP form is "RAFANNC", ROUTE TYPE on these RTIDX forms must be "HUNT".

For 5E13 and later, when the ACT field for SFID 34 on the SFSYS form is set to "Y", route indexes 1001 through 1032 cannot be assigned as the NEXT ROUTE.

2.8 ANI OUTPULSING

Description: Is ANI (Automatic Number Identification) Outpulsing allowed for this Route Index?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For incoming Trunk Groups (TRK DIR on the TKGRP form is "INC"), this field must be "N".

An entry is allowed in this field if ROUTE TYPE is "HUNT".

2.9 # SIGNALING PROTOCOL

Description: Enter the Signaling Protocol to be used for this Route Index.

Required Field.

Valid SIGNALING PROTOCOL Entries	
Entry	Definition
EA	Carrier Interconnect Equal Access signaling. For 5E8 and earlier, this is used in FGD and FGB Transitional Access where CIC (Carrier Identification Code) is 000 - 999. For 5E9(1) and later, this is used in FGD where the CIC is 0000 - 9999, and for Transitional Access where the CIC is 0000 - 0999.
FGB	Carrier Interconnect signaling to Feature Group B carriers that utilize the interim carrier access dialing plan, 950-1XXX. For 5E8 and later, the dialing plan is 950-XXXX.
INC	Carrier Interconnect EA signaling for international calls.
INCM	Software Release: 5E7 and later. Modified EA signaling for international calls. Used in the TAISP (Tandem Access for InterLATA Sent-Paid Coin Calls) feature. For 5E7 and later, a PREF DIG of 1NX is used. Also used for EAOSS (Exchange Access Operator Services System) signaling when LEC OS is set to "Y".
MEA	Software Release: 5E7 and later. Modified EA signaling for domestic calls. Used in the TAISP (Tandem Access for InterLATA Sent-Paid Coin Calls) feature. For 5E7 and later, a PREF DIG of 0ZZ is used.

	Also used for the EAOSS (Exchange Access Operator Services System) signaling when LEC OS is set to "Y", or EOSS (Exchange Operator Services System) signaling when LEC OS is set to "Y" and no carrier is specified
PNANI	Software Release: 5E7 and later. Automatic Number Identification over Private Facilities special feature. This feature must be purchased by the office.
TRAD	Traditional LAMA/CAMA signaling.

Data Rules:

FGB

If Signaling Protocol is "FGB", the Route Type must be "HUNT".

EA

For 5E7 and later, when SIGNALING PROTOCOL is "EA" and CI ROUTE TYPE is "STG", either PREFIX DIGITS must be entered, or CKT CODE must be greater than 0.

For 5E7 and later, if SIGNALING PROTOCOL is set to "EA" or "INC" and CI ROUTE TYPE is set to "STG", and the TGN on the TKGRP form has an OUTPUTSING other than "ISUP7", and TRKCLS other than "TSPS", then the PREFIX DIGITS must be entered and cannot be zero.

INC

When SIGNALING PROTOCOL is "INC" and CI ROUTE TYPE is "DTG" or "STG", either PREFIX DIGITS must be entered, or CKT **CODE must be** greater than 0. In both these cases, if a TRUNK GROUP NUMBER has been entered and is defined on a TKGRP form where OUTPUTSING is not "ISUP7" (i.e., not a CCS7 trunk group), then PREFIX DIGITS must be entered.

INCM

For 5E7 and later, when SIGNALING PROTOCOL is "INCM",

- CI ROUTE TYPE must be "DTG" or "STG",
- PREFIX DIGITS must be entered and must be 3 digits long, and
- TRUNK GROUP NUMBER must be entered.

Also, see below for "MEA".

MEA

For 5E7 and later, when SIGNALING PROTOCOL is "MEA":

CI ROUTE TYPE must be "DTG" or "STG"

TRUNK GROUP NUMBER must be entered.

When SIGNALING PROTOCOL is "MEA" and CI ROUTE TYPE is "DTG", PREFIX DIGITS cannot be entered.

When SIGNALING PROTOCOL is "MEA" and CI ROUTE TYPE is "STG", PREFIX DIGITS must be entered and must be 3 digits long.

If "MEA" or "INCM" is entered, the TRUNK GROUP NUMBER on this form must be defined as TGN on a TKGRP form with TRKCLS equal to "TSPS", SIGNAL equal to "INBAND" or "EXINBND", and OUTPUTSING not equal to "ISUP7".

If SIGNALING PROTOCOL is equal to "MEA" or "INCM" and TRUNK GROUP NUMBER is defined on the TKGRP form with SIGNAL equal to "INBAND", this data combination is used by the EAOSS for Operator Services Calls special f

eature, which is a secured feature and must be purchased by the office before SIGNAL can be set to "INBAND". Either the ACT field for SFID 11 must be set to "Y" on the SFSYS form, or SIGNAL must be set to "EXINBND".

PNANI

For 5E7 and later, for the ANI over PF feature, SIGNALING PROTOCOL must be "PNANI". When "PNANI" is entered, CI ROUTE TYPE must be "OTHER", OVERLAP OUTPUTSING must be "N", and ANI OUTPUTSING must be "Y". The ANI over PF special feature will allow only the following classes of service on the originating port: "PF", "PFITT" (PF Intertandem Trunk), "INDIV" (Individual line), "ISDN" (digital subscriber line associated with ISDN service), "ATTENDANT" (Attendant line), and "ISATND" (ISDN Attendant). "PNANI" may not be entered unless the ANI over PF secured feature has been activated with FEATURE ID 5 set to "S" or "Y" on the SFSYS form (5713 Record). (See Division 2, Section 4A5 for information on secured features.)

TRAD:

If this Route Index is associated with a PFA dial code (defined on a PFAGPA form), then this field should be "TRAD".

For traffic to a TSPS office which has not converted to OS Signaling, use "TRAD". For traffic to a TSPS office which has converted to OS Signaling, use "EA". Do not enter "INC" or "FGB" for signaling to a TSPS office.

NOTE: Since this form entry is the only data internal to the 5ESS Switch to indicate if the far end TSPS office is expecting "TRAD" or "EA" signaling, this must be verified with the TSPS office prior to definition of the signaling protocol for these trunks.

2.10 FGD CIC 4

Description: Is the SSP (Service Switching Point) capable of handling a four-digit CIC? A value of "Y" means a 4-digit CIC is used; "N" means the 3-digit CIC is still being used. This capability is indicated to the SCP (Service Control Point).

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When FGD CIC 4 is "Y",

- SIGNALING PROTOCOL must be "TRAD", "EA", "MEA", "INC" or "INCM", and TRUNK GROUP NUMBER must be entered.
- If SIGNALING PROTOCOL equals "TRAD", TRUNK GROUP NUMBER must be defined on a corresponding TKGRP form with TRKCLS set to either "EDSL", "EDSLHM", or "IC".

2.11 CI ROUTE TYPE

Description: Enter the Carrier Interconnect Route Description Type.

Sometimes more than one Route Index is required to specify more than one relevant entry in this field, even though they point to the same Trunk Group. For example, if overflow from direct Trunk Groups to carriers and overflow on local company Trunk Groups route to the same announcement, it is necessary to define two Route Indexes to establish proper measurements.

Required Field.

Default: OTHER

Valid Entries:

Valid CI ROUTE TYPE Entries	
Entry	Definition
ALTRKBSY	The Route Index points to a tone or announcement because of an all trunks busy condition.
BADLATA	The Route Index points to an announcement due to the IC/INC misrouting the call. This may be a call terminating to an AT from an IC/INC, or to an EAEO if the Trunk Group is direct (not tandem) from an IC/INC.
CALLFORWARD	Forward the call for the Call Forward on Trunks feature. For more information, see Division 2, Section 4A273.
DTG	The Route Index points to a Trunk Group that is direct to an IC (interLATA Carrier) or an INC (International Carrier).
DTGOFL	The Route Index points to a tone or announcement on overflow from a DTG type Route Index.
GENANN	The Route Index points to an unspecified announcement.
ICRSTRCT	The Route Index points to an announcement due to an interLATA Carrier restriction.
NMFAIL	The Route Index points to an announcement due to Network Management blocking.
OTHER	Unspecified Route Type. (Used when the other values are not applicable to the Route Index being defined.) It may not be used for any announcement or tone route.
STG	The Route Index points to a shared Trunk Group from an EAEO to an AT (Access Tandem) and is used for calls bound for an IC/INC.
STGOFL	The Route Index points to a tone or announcement on overflow from a STG type Route Index.

Data Rules:

"OTHER" may not be entered if SIGNALING PROTOCOL is "INC" or "FGB", or for 5E8 and earlier, if ROUTE TYPE is "BUSY" or "REORDER".

If TRKCLS on the TKGRP form is set to either "RAFDTA", "RAFCTR" or "RAFAN", CI ROUTE TYPE must not be "OTHER".

For 5E13 and later, when CI ROUTE TYPE is "CALLFORWARD":

- the ACT field for SFID 273 on the SFSYS form must be set to "Y".
- ROUTE TYPE must be "DNTRAN".
- PREFIX DIGITS must be entered and length of PREFIX DIGITS must be 4.

For 5E14 and later, when CI ROUTE TYPE is "CALLFORWARD",

- the ACT field for SFID 273 on the SFSYS form must be set to "Y".
- TN must be entered.
- ROUTE TYPE must be "DNTRAN".
- PREFIX DIGITS must not be entered, and
- NEXT ROUTE must not be entered.

2.12 TN

Description: This field is used to assign the Call Forward TN associated with this route index.

Software Release: 5E14 and later

Valid Entries: 7-digit or 10-digit TN in the format: XXXXXXXX or NXXXXXXXXX

where N = 2 - 9 and X = 0 - 9

Data Rules:

The first 3 digits of a 7-digit TN or the NPA/NXX combination (the first 6 digits of a 10-digit TN) must be defined as OFFICE CODE or NPA/OFFICE CODE, respectively, on a NOC form.

If the TN is 7 digits, there must be only one NOC form with the same value for the OFFICE CODE.

When TN is entered, ROUTE TYPE must be "DNTRAN" and CI ROUTE TYPE must be "CALLFORWARD".

2.13 REMARK

Description: This field may contain any information deemed locally necessary.

Valid Entries: up to 16 characters

2.14 ANI II DIGITS

Description: This field is used to assign ANI (Automatic Number Identification) Flexible Assignment Number Identification pairs to the Route Index. Flexible Assignment of two ANI pairs is a secured feature. The Feature must be purchased by the office.

Software Release: 5E6 and later

Valid Entries: 0 - 99

Data Rules:

If ANI II DIGITS is entered, then SIGNALING PROTOCOL must be

For 5E6 and 5E7: "EA" or "INC"

For 5E8 and later: "EA", "INC", "MEA" or "INCM"

In addition, ANI OUTPULSING must be "Y".

2.15 LEC OS

Description: Are operator services provided by LEC as opposed to IC? If "N" is entered, then the operator services are provided by the IC. This field was added for the EAOSS Signaling for Operator Services Calls secured feature. For more information on the secured feature see Division 2, Section 4A11. The SFID (Secured Feature ID) is 11. If SFID 11 is activated on the SFSYS form (5713-1 Record) the following type of signaling may be accepted at a 5ESS Switch OSPS office.

LEC OS	SIGNALING PROTOCOL	CI ROUTE TYPE	SIGNALING PROVIDED
Y	INCM	STG	EAOSS
Y	MEA	STG	EAOSS
Y	MEA	STG	EAOSS (no carrier specified)
N	INCM	STG	MEA
N	INCM	DTG	MEA

N	MEA	STG	MEA
N	MEA	DTG	MEA

If SFID 11 is not activated only the following signals will be provided:

LEC OS	SIGNALING PROTOCOL	CI CALL TYPE	SIGNALING PROVIDED
N	INCM	STG	MEA
N	INCM	DTG	MEA
N	MEA	STG	MEA
N	MEA	DTG	MEA

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- SIGNALING PROTOCOL must be "INCM"
- or "MEA"
- CI ROUTE TYPE must be "STG"
- ANI OUTPUTSING must be "Y"

This field is used by the EAOSS for Operator Services Calls feature. This is a secured feature and must be purchased by the office. Therefore, the ACT field for SFID 11 must be set to "Y" on the SFSYS form (5713-1 Record) before "Y" can be entered in the LEC OS field.

If "Y" is entered, the TRUNK GROUP NUMBER on this form must be defined as TGN on a TKGRP form with OUTPUTSING equal to "MF".

2.16 # OVERLAP OUTPUTSING

Description: Is Overlap Outputting allowed for this Route Index?

Required Field.

Valid Entries: Y, N

Data Rules:

An entry is allowed in this field if ROUTE TYPE is "HUNT".

For incoming Trunk Groups (TRK DIR on the TRKGRP form is "INC"), this field must be "N". If CI ROUTE TYPE is not "DTG", "STG" or "OTHER", then this field must be "N".

If this field is "Y" and SIGNALING PROTOCOL is "TRAD", then the PFAGPA form must have the same Route Index assigned in the ROUTE INDEX field and a ROUTE TYPE of "HUNT" entered.

Overlap Outputting may also be used for CI (Carrier Interconnect) calls associated with SIGNALING PROTOCOL values of "EA" and "INC". If Overlap Outputting is desired for a CI route, the ICF form (5305 Record) must have OVERLAP or SAC OVERLAP equal to "Y".

When the associated Trunk Group utilizes RP, this field must be "N".

For 5E6 and later, if the TRUNK GROUP NUMBER is defined on a TKGRP form with OUTPUTSING entered

as "ISUP7" or "CCIS6", the OVERLAP OUTPUTPULSING on this form must be "N".

If the TRUNK GROUP NUMBER is defined on a TKGRP form with TRKCLS entered as "EDSL" or "EDSLHM", the OVERLAP OUTPUTPULSING field on this form must be "N".

2.17 LDP RT LIST KEY

Description: The LDP RT LIST KEY field is a display only field used to indicate whether or not a route list (form RTLIST) exists for this ROUTE INDEX.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

2.18 EON SUPPRESS CN

Description: Proprietary field.

CCS7 EQUAL ACCESS

Fields Section 2.19 - Section 2.24 refer to CCS7 Equal Access.

2.19 CKT CODE

Description: This field, to be transmitted in the Network Identification field of the TNS (Transit Network Selection) parameter of the CCS7 IAM (Initial Address Message), is a one or two digit circuit code that maps to an 0ZZ, 1NX or 1N'X digit string used in equal access and international signaling. The CKT CODE should be populated for Originating End Offices using equal access signaling over shared trunk groups using ISUP7 and for Originating Access Tandem offices that handle international traffic on incoming ISUP7 trunks.

Software Release: 5E6 and later

Default: 0

Valid Entries: 0 - 15

Data Rules:

When SIGNALING PROTOCOL is "INC", CKT CODE must be 0, 1, 2, or blank.

When the ROUTE INDEX is assigned to CCS7 trunks (OUTPUTPULSING is set to "ISUP7" on the TKGRP form) and SIGNALING PROTOCOL is other than "TRAD" then CKT CODE must be non-zero. In particular, when the SIGNALING PROTOCOL is "INC", CKT CODE must be 1 or 2; when SIGNALING PROTOCOL is "EA" and CI ROUTE TYPE is "STG", CKT CODE must be 1 - 15.

For 5E7 and later, if CKT CODE is greater than 0, PREFIX DIGITS must not be entered.

For 5E9(2) and later, the CKT CODE on the RTIDX form must be entered with a value greater than 0 when:

- The SIGNALING PROTOCOL on the RTIDX form is set to "EA".
- The TRUNK GROUP NUMBER on the RTIDX form is entered.
- The matching TKGRP form (found by matching TRUNK GROUP NUMBER of the RTIDX form with the TGN of the TKGRP form) has OUTPUTPULSING

set to "ISUP7".

- TRKCLS on the same associated TKGRP form is "IC".
- The ROUTE DESTINATION TYPE on the RTIDX form is set to "STG".
- The SFID 188 on the SFSYS form is set to "Y".

For 5E9(2) and later, the CKT CODE on the RTIDX form must be 0 or unknown when:

- The SIGNALING PROTOCOL on the RTIDX form is set to "EA".
- The TRUNK GROUP NUMBER on the RTIDX form is entered.
- The matching TKGRP form (found by matching TRUNK GROUP NUMBER of the RTIDX form with the TGN of the TKGRP form) has OUTPUTSING set to "ISUP7".
- TRKCLS on the same associated TKGRP form is "IC".
- The SFID 188 on the SFSYS form is set to "N".

2.20 CPN SUBSC

Description: Does the IC/INC (interLATA/International Carrier) subscribe to the CPN (Calling Party Number) parameter?

Enter "Y" if the CPN parameter can be sent in the outgoing IAM (Initial Address Message). Otherwise, enter "N".

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CPN SUBSC is "Y", then SIGNALING PROTOCOL must not be "TRAD". If CPN SUBSC is "Y", the TRUNK GROUP NUMBER must be defined on the TKGRP form with OUTPUTSING equal to "ISUP7".

If TRUNK GROUP NUMBER is not entered, CPN SUBSC must be "N".

2.21 CSI SUBSC

Description: Should the CSI (Carrier Selection Information) parameter be sent to the IXC (InterLATA Exchange Carrier) in the IAM (Initial Address Message)?

If the OEO (Originating End Office) determines that an IXC is required to complete the call, and if circuit selection results in the selection of a CCS7 outgoing circuit either directly to the IXC or to an AT (Access

Tandem), the OEO will mark the circuit busy and formulate an IAM.

Prior to the originating end office sending an IAM, this field will be checked by the operational software to determine if the CSI Parameter should be passed to the IXC in the IAM.

PIC has to be populated depending on the type of origination according to the following table, to allow CSI to populate the IAM message.

ORIGINATION	FORM	FIELD
Analog line	LINE	PIC
	IDPGP	GPIC
	OFCOPT	CARRIER ID
ISDN line	DSLUSR	PIC
	IDPGP	GPIC
	OFCOPT	CARRIER ID
PRI	TKGRP	PIC
	OFCOPT	CARRIER ID

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If SIGNALING PROTOCOL is "FGB" or "TRAD", this field must be "N".

If CSI SUBSC is "Y", OUTPUTSING on the TKGRP form (5202 Record) must be "ISUP7".

2.22 ATP SUBSC

Description: Should the ATP (ISUP Access Transport) parameter be sent to the far switch in the IAM?

Q.931 Information Element transfer facilitates the transport of specific Q.931 information elements in the ISUP ATP (Access Transport Parameter) transparently between exchanges in the network.

Prior to sending an IAM message from an OEO, this field will be checked by the operational software to determine if the ATP parameter should be passed to the far switch.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

MF trunks must be "N".

If SIGNALING PROTOCOL is "FGB" or "TRAD", this field must be "N".

If ATP SUBSC is "Y", OUTPUTSING on the TKGRP form (5202 Record) must be "ISUP7".

2.23 UUI SUBSC

Description: Should the UUI (User to User Information) parameter be sent to the far switch in the IAM?

The UUI parameter of the an ISUP message allows ISDN customers to exchange user data transparently

through the network during call setup and call clearing.

Prior to sending an IAM message from an originating end office, this field is checked by the operational software to determine if the UUI parameter should be passed to the far switch.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

MF trunks must be "N".

If SIGNALING PROTOCOL is "FGB" or "TRAD", this field must be "N".

If UUI SUBSC is "Y", OUTPUTSING on the TKGRP form (5202 Record) must be "ISUP7".

2.24 CICIP SUBSC

Description: Should the CICIP (Carrier Identification Code Parameter) be included in the IAM (Initial Address Message) sent from the originating end office to the far switch?

The CICIP SUBSC field supports the Carrier Identification Parameter secured feature (SFID 9). For more information on the Carrier Identification Parameter secured feature, see Division 2, Section 4A9.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field is used by the Carrier Identification Code Parameter special feature. It is a secured feature that must be purchased by the office and the ACT field for SFID 009 on the SFSYS form must be set to "Y" before this field can be set to "Y".

For interworking between Multi Frequency and CCS7 trunks, if CICIP SUBSC is "Y", the CICIP will not be included in the outgoing IAM if the value of the CICIP BLOCK is "Y" on OFCOPT form.

If CICIP SUBSC is "Y", then:

TGN must be entered and must not 0

SIG PRO must be "EA", "INC", or "MEA"

If "Y" is entered, then the TRUNK GROUP NUMBER must be defined on the TKGRP form where OUTPUTSING is "ISUP7".

If "Y" is entered and SIGNALING PROTOCOL is "INC", then TRUNK GROUP NUMBER cannot be defined on the TKGRP form where TRKCLS is "IC".

TRUNK GROUP SELECTION LIST (TGSL)

The following fields are used to administer the TGSL. A TGSL consists of an ordered list of route index

values. The end of each TGSL is marked by a null value in the NEXT ROUTE field. Each route index is associated with a TRUNK GROUP NUMBER value. Eight types of TGSLs are supported and are shown in Figure 1. Trunk groups that are contained in each TGSL must have characteristics that are consistent with the types of calls that use each TGSL. Figure 1 shows the allowed trunk group data for trunk groups that are contained in each of the types of TGSLs. A value of "x" indicates that trunk groups with the indicated data values are legal for the type of TGSL shown. These restrictions are only enforced by the software for the first trunk group in each TGSL, but this should be manually administered for all trunk groups. Note that the entries for the SPEECH ALT RI and DATARATE ALT RI fields cannot be equal.

2.25 SPEECH ALT RI

Description: Enter the Alternate Route Index for a Speech Call. This route index is used when a call has a bearer capability of "speech". For more information on the Routing Based On Bearer Capability see Division 2, Section 1W on CCS7 ISDN User Part Enhancements.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The entry for SPEECH ALT RI must not equal the entry for ROUTE INDEX.

SPEECH ALT RI must not equal the DATARATE ALT RI for the following:

- 56K
- 64K
- R64K
- 384K
- 1536K
- MULTIRATE.

The entry in this field must be defined on a corresponding RTIDX form with a ROUTE TYPE of "HUNT". In addition, there must be a corresponding TKGRP form defined with the SPEECH TRMTS field set to "Y".

DATARATE ALT RI

Fields Section 2.26 - Section 2.31 refer to Alternate Route Indexes for wide band data rates. DATARATE ALT RI entries can be either segregated (data-only) or non-segregated (data and voice) data rates.

For Circuit Switched Data calls, the Alternate Data Route Index is used for the first route, based on the bearer capability of the call. When an "all trunks busy" condition is encountered, the routes that are selected using the NEXT RTI do NOT select different alternate data routes (DATARATE ALT RI) based on the bearer capability, but use the trunk group specified by the selected NEXT RTI. Therefore, the trunk group that is referenced by the NEXT RTI must specifically support data calls for all bearer capabilities that the trunk group on the primary RTI can support. For example, if the Trunk Group pointed to by a particular Route Index supports 64K data calls, then the trunk group that the NEXT RTI points to MUST ALSO support 64K data calls.

Prior to 5E9(1), data rates "56K", "R64K", and "64K" were entered on the DTRTX form (5314 Record).

The following data rules apply collectively to the specific DATARATE ALT RI entries indicated below; and are further illustrated in Figure 1 :

- If any DATARATE ALT RI field entry equals ROUTE INDEX, ROUTE TYPE must be "HUNT".
- When a DATARATE ALT RI field entry for 56K, R64K, and 64K points to a TGN on the TKGRP form (via the RTIDX form) that is defined for segregated traffic (data only), the implied DATA RATE on the RTIDX form (i.e., 56K, R64K, or 64K) must match the DATA RATE on the TKGRP form.
- DATARATE ALT RI entries must not be assigned on any of the following forms: HGRPAS (5115 Record), IDDD (5307 Record), INDIT (5309 Record), LDIT (5300 Record), LINE (5109-1/2/3 Record), MLDIT (5300-3/5 Record), RDIT (5300-7/8 Record), PDIT (5300-2 Record) or RAR (5301 Record). Only "EDSL" and "EDSLHM" type trunk groups or trunks using CCIS6 or ISUP7 signaling are capable of handling non-segregated traffic (both voice and data).
- DATARATE ALT RI field entries for 56K, R64K, and 64K that point to a TGN on the TKGRP form (via the RTIDX form) whose TRKCLS is not "LTOLLCON", "TTOLLCON", "PRINTOLL", "EDSL", "EDSLHM", "IFOPER", "IFTERM", "SCINTOLL", "IC", "LATA", "PF", "PFITT", or "PFLASH" is not permitted.
- When a narrow band DATARATE ALT RI field (56K, R64K, or 64K) points to a Trunk Group via an RTIDX form that is defined on the TKGRP form as an EDSL, CCIS6 or ISUP7 type Trunk Group (capable of handling both voice and data), the DATA RATE on the TKGRP form cannot be less than the implied data rate on the original RTIDX form.
- When a wide band DATARATE ALT RI field (384K, 1536K, or MULTIRATE) points to a Trunk Group via an RTIDX form, the WB RATE field on the TKGRP form must be entered and must correspond with the implied RTIDX wide data rate in the following manner:

DATARATE ALT RI	WB RATE
384K	384K, 384/1536K, or MULTIRATE.
1536K	384/1536K, 1536K, or MULTIRATE.
MULTIRATE	384K, 384/1536K, or 1536K or MULTIRATE.

2.26 56K

Description: Enter the Alternate Route Index for 56 KB/s calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

2.27 R64K

Description: Enter the Alternate Route Index for restricted 64 KB/s calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

2.28 64K

Description: Enter the Alternate Route Index for 64 KB/s calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

2.29 384K

Description: Enter the Alternate Route Index for 384 KB/s calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

2.30 1536K

Description: Enter the Alternate Route Index for 1536 KB/s calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

2.31 MULTIRATE

Description: Enter the Alternate Route Index for Multirate calls.

Software Release: 5E9(1) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

3. FORM ENTRIES 5303-2 RECORD**3.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Number and Office Name on each page of the record.

PACKET SWITCHING

3.2 DESTINATION PSN

Description: This field specifies the Packet Switch Number of the destination switch in a Packet Switching Network. The Destination PSN is the PSN of a 5ESS Switch that resides in the same IP (Internal Protocol) subnetwork as the originating switch. The Destination PSN entered is either the PSN of a 5ESS Switch where the terminating CPE is located or the PSN of the 5ESS Switch where the gateway trunk group to the PPSN (Public Packet Switched Network) is located.

Software Release: 5E3 and later

Valid Entries: 1 - 255

Data Rules:

If the DESTINATION PSN is entered, then the Trunk Group Number must be entered on this form and defined on the TKGRP form with a TRKCLS of "PACKET".

If no EQPSUPH form (5742 Record) exists with an EQST entry of "O", then this field must not be entered.

For 5E5 - 5E10, a value entered in this field may not be assigned as the DESTINATION PSN on any other RTIDX form. Also, it may not be assigned as the PSN on the ISDNOPT form (5941 Record).

For 5E11 and later, when DESTINATION PSN is entered, a value must be entered for PSN on the ISDNOPT input form (5941 Record).

3.3 RTE SEARCH LMT

Description: The RTE SEARCH LMT field is used to specify how far down the route list the switch will search. The route search limit is sent to the downstream switch.

Valid RTE SEARCH LMT Entries	
Entry	Definition
1 - 5	Supported by 5ESS
1 - 15	Other vendors
blank	no entry

Data Rules:

When RTE SEARCH LMT is entered, TRUNK GROUP NUMBER must be entered.

3.4 TERM NSC

Description: The TERM NSC field is used to specify the terminating network selection code for calls exiting the switch on this route. This default TERM NSC will only be included in the signaling if the call does not already have a TERM NSC assigned to it, and is exiting the switch on a MINT route.

Software Release: 5E12 and later.

Valid Entries: 0 - 999 or leave blank

Data Rules:

When TERM NSC is entered, TRUNK GROUP NUMBER must be entered.

When TERM NSC is entered on the RTIDX form, the TERM NSC must be defined on the LDPTNSC form.

When TERM NSC is known on the RTIDX form, MINT SIG TYPE must be known on the TKGRP form. In

addition, when MINT SIG TYPE is "BETA" on the corresponding TKGRP form, TERM NSC must be between 0 and 63 on the RTIDX form. TRUNK GROUP NUMBER on the RTIDX form matches TGN on the TKGRP form.

3.5 TDR

Description: Is Time Dependent Route active for this Route Index?

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When TDR is set to "Y" on the RTIDX form, a corresponding TDR form must exist with ROUTE INDEX matching ROUTE INDEX on the RTIDX form.

When TDR is set to "N" on the RTIDX form, a corresponding TDR form must not be found.

3.6 FNL RT TRIG NBR

Description: The FNL RT TRIG NBR field is used to specify the ASP trigger for the final route.

Software Release: 5E14 and later

Default: BLANK

Valid Entries: Blank, or 1 - 255

Data Rules:

When FNL RT TRIG NBR is entered:

NEXT ROUTE cannot be entered.

ROUTE TYPE must be "BUSY", "HUNT", or "REORDER".

FNL RT TRIG NBR must be defined as TRIG NBR on the NSTRIG form.

APPLICATION must be "ASP" and AIN REL must be "R0D1" on the NSTRIG form.

The ACT field for SFID 290 on the SFSYS form must be set to "Y".

3.7 REL LINK TYPE

Description: This field is used to indicate the signaling protocol used for Release Link for Toll calls.

Software Release: 5E14 and later

Valid Entries	
Entry	Description
ANSI	Standard Protocol
TOPS	Nonstandard Protocol
BLANK	No release link processing enabled

Data Rules:

When REL LINK TYPE is set to "ANSI", the SFSYS form must have the ACT field for SFID 520 set to "Y".

When REL LINK TYPE is set to "TOPS", the SFSYS form must have the ACT field for SFID 521 set to "Y".

When REL LINK TYPE is entered, TRUNK GROUP NUMBER must be entered.

When REL LINK TYPE is entered, the TRUNK GROUP NUMBER on the RTIDX form must be defined on the TKGRP form and :

TRKCLS must be "TTOLLCON" or "IC",

CCS7 TYPE must be unknown or "BELLCORE",

OUTPUTSING must be "ISUP7", and

TRK DIR must be "OUT" or "2W".

CRITICAL DATA INDICATOR

The following (fields Section 3.8 - Section 3.9) support the RC Translations Protection For Highly Critical Elements feature, see Division 2, Section 1BY for more information.

3.8 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the route index data is critical.

Software Release: 5E13 and later

Required field.

Default: N

Valid Entries: Y, N

3.9 CRIT RMK

Description: This field enhances the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT RMK field is used to enter a remark to explain why this route index data is critical.

Software Release: 5E15 and later

Valid Entries: Enter up to 32 characters

Data Rules:

When the RTIDX form has the CRIT RMK field entered, the SFSYS form SFID 566 ACT field must be set to "Y".

3.10 OMIT CHARGE

Description: This field indicates whether or not the CHG (Charge Number) parameter should be omitted from the SS7 IAM (Initial Address Message) if the DN (Directory Number) of the CPN (Calling Party Number) parameter and CHHG parameter are the same.

Software Release: 5E16 and later

Default: N

Valid Entries: Y, N

SS7 OPERATOR SERVICES

The following fields (Section 3.11 - Section 3.14) supports the SS7 Using Operator Services feature. For more information see, Division 2, Section 4A603.

3.11 OPERATOR SIG

Description: This field indicates which SS7 Operator Signaling method should be used on this route.

Software Release: 5E16 and later

Valid Entries:

Entry	Definition
blank	Existing method.
BASIC	Basic Nature of Address method.
MOD	Modified Nature of Address method.

Data Rules:

When OPERATOR SIG is entered, TRUNK GROUP NUMBER must be entered.

3.12 OPERATOR ACCESS

Description: This field indicates whether or not Access Signaling Information should be included in the OSI (Operator Services Information) parameter of outgoing IAM involving InterLata carriers on this route.

Software Release: 5E16 and later

Default: N

Valid Entries: Y, N

When OPERATOR ACCESS is "Y", OPERATOR SIG must be "MOD".

3.13 CONNECTION HOLD

Description: This field indicates whether or not operator Connection Hold is supported on this route.

Software Release: 5E16 and later

Default: N

Valid Entries: Y, N

3.14 CARRIER ID

Description: This field indicates which carrier is providing Operator Services.

Software Release: 5E16 and later

Valid Entries: 0 - 9999

TRUNK GROUP SELECTION LISTS										
TRUNK GROUP DATA			TYPE OF TGSL							
DATA	WBRATE	SPEECH	RTI*	SPEECH	56K	R64K	64K	384K	1536K	MULTI-

RATE				ALT RI						RATE
Null	Null	Y		X						
Null	Null	N	X							
56K	Null	N	X		X					
R64K	Null	N	X		X	X				
64K	Null	N	X		X	X	X			
64K	384K	N	X		X	X	X	X		X**
64K	1536K	N	X		X	X	X		X	X**
64K	384/1536K	N	X		X	X	X	X	X	X**
64K	MULTIRATE	N	X		X	X	X	X	X	X

Notes: *This is the normal route index value that the TGSL used for speech and 3.1 Khz calls. **Must be at the end of the TGSL. Calls with certain values of N are released (for example, a 384K TG and a multirate call with N not equal to 6).

Figure 1 TRUNK GROUP SELECTION LISTS TABLE

```

rtidx                      5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

*1. ROUTE INDEX            00001          13. ANI II DIGITS      ___
#2. ROUTE TYPE              14. LEC OS          N
  3. TRUNK GROUP NUMBER    ___          15. OVERLAP OUTPULSING N
  4. DIGITS TO BE DELETED  00          LDP RT LIST KEY    _
  5. PREFIX DIGITS         ___          17. EON SUPPRESS CN    N
  6. NEXT ROUTE            ___
  7. ANI OUTPULSING        N          CCS7 EQUAL ACCESS
#8. SIGNALING PROTOCOL     EA          18. CKT CODE    00
  9. FGD CIC 4             N          19. CPN SUBSC N
10. CI ROUTE TYPE          OTHER       20. CSI SUBSC N
11. TN                     ___          21. ATP SUBSC N
12. REMARK                 ___          22. UUI SUBSC N

```

```

rtidx                      5ESS Switch
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

23. CICP SUBSC            N          PACKET SWITCHING
24. SPEECH ALT RI        ___          31. DESTINATION PSN    ___

DATARATE      ALT RI      32. RTE SEARCH LMT    ___
25. 56K        ___          33. TERM NSC          ___
26. R64K        ___          34. FNL RT TRIG NBR    ___
27. 64K         ___          35. TDR                N
28. 384K        ___          36. REL LINK TYPE      ___
29. 1536K       ___          37. CRIT IND          N
30. MULTIRATE   ___

```

Figure 2 SAMPLE RTIDX FORM 5E14 SOFTWARE RELEASE

```

rtidx                      5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

*1. ROUTE INDEX           _____      13. ANI II DIGITS           ____
#2. ROUTE TYPE            _____      14. LEC OS                     N
  3. TRUNK GROUP NUMBER   _____      15. OVERLAP OUTPULSING N
  4. DIGITS TO BE DELETED 00                LDP RT LIST KEY       _
  5. PREFIX DIGITS        _____      17. EON SUPPRESS CN         N
  6. NEXT ROUTE           _____
  7. ANI OUTPULSING       N                CCS7 EQUAL ACCESS
#8. SIGNALING PROTOCOL    _____      18. CKT CODE 00
  9. FGD CIC 4            N                19. CPN SUBSC N
10. CI ROUTE TYPE         OTHER            20. CSI SUBSC N
11. TN                    _____      21. ATP SUBSC N
12. REMARK                _____      22. UUI SUBSC N

```

```

rtidx                      5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

```

```

23. CICP SUBSC           N                PACKET SWITCHING
24. SPEECH ALT RI        _____      31. DESTINATION PSN      ____

DATARATE                ALT RI           32. RTE SEARCH LMT      ____
25. 56K                  _____      33. TERM NSC             ____
26. R64K                  _____      34. FNL RT TRIG NBR     ____
27. 64K                   _____      35. TDR                  N
28. 384K                  _____      36. REL LINK TYPE       ____
29. 1536K                 _____
30. MULTIRATE             _____

```

```

rtidx                      5ESS Switch
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

```

```

                        CRITICAL DATA INDICATOR
37. CRIT IND N
38. CRIT RMK _____

```

Figure 3 SAMPLE RTIDX FORM 5E15 SOFTWARE RELEASE

```

rtidx                      5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5303-1/2)                 ROUTE INDEX

```

*1. ROUTE INDEX	_____	13. ANI II DIGITS	_____
#2. ROUTE TYPE	_____	14. LEC OS	N
3. TRUNK GROUP NUMBER	_____	15. OVERLAP OUTPULSING	N
4. DIGITS TO BE DELETED	00	LDP RT LIST KEY	_____
5. PREFIX DIGITS	_____	17. EON SUPPRESS CN	N
6. NEXT ROUTE	_____		
7. ANI OUTPUTSING	N	CCS7 EQUAL ACCESS	
#8. SIGNALING PROTOCOL	_____	18. CKT CODE	00
9. FGD CIC 4	N	19. CPN SUBSC	N
10. CI ROUTE TYPE	OTHER	20. CSI SUBSC	N
11. TN	_____	21. ATP SUBSC	N
12. REMARK	_____	22. UUI SUBSC	N

rtidx	5ESS Switch
SCREEN 2 OF 3	OFFICE DATA ADMINISTRATION
(5303-1/2)	ROUTE INDEX

23. CICP SUBSC	N	PACKET SWITCHING
24. SPEECH ALT RI	_____	31. DESTINATION PSN _____
DATARATE	ALT RI	32. RTE SEARCH LMT _____
25. 56K	_____	33. TERM NSC _____
26. R64K	_____	34. FNL RT TRIG NBR _____
27. 64K	_____	35. TDR
28. 384K	_____	36. REL LINK TYPE
29. 1536K	_____	
30. MULTIRATE	_____	

rtidx	5ESS Switch
SCREEN 3 OF 3	OFFICE DATA ADMINISTRATION
(5303-1/2)	ROUTE INDEX

CRITICAL DATA INDICATOR

37. CRIT IND N

38. CRIT RMK _____

39. OMIT CHARGE N

```

SS7 OPERATOR SERVICES
40. OPERATOR SIG      _____
41. OPERATOR ACCESS N
42. CONNECTION HOLD N
43. CARRIER ID

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Figure 4 SAMPLE RTIDX FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 3Q: 5304 RECORD

BRCS - MC ROUTE INDEX EXPANSION FORM - MCRTIDX

1. GENERAL

The 5304 Record is used to determine routing for various BRCS capabilities.

The MCRTIDX (Modular Customization Route Index) is similar to the Route Index defined on the RTIDX form (5303 Record). The MCRTIDX form, however, allows additional information that is required for ARS (Automatic Route Selection) and sometimes used for PFA (Private Facility Access). An MC Route Index is usually required if an SFG (Simulated Facility Group) is used. The only exception is when the SFG is associated with six-port conference circuits. In this case the PFATG form (5609-2 Record) points directly to the SFG Number.

The following list of forms may contain an MCRTIDX which points to this form:

	Form	Record
TKEDSLD	EDSL Call by Call Features	5209
ARSGPA	Automatic Route Selection Group Parameter	5608-2
PFAGPA	Private Facility Access Group	5609-5
PFAINWT	INWATS Simulated Facility TN	5609-4
PFATG	PFA Terminal Group Facility	5609-2
PPSCRN	Precedence and Preemption Screening	5618-2

The MC Route may be defined for accessing a Trunk Group which may be a private facility, an SFG, or as an overflow to POTS routing.

MC Route Indexes defined for overflow to POTS and for OUTWATS SFGs invoke special call processing which is not required for the other cases. In the overflow to POTS case, which may be used as the last route in an ARS route sequence, the MCRTIDX is pointed to from a NEXT MC ROUTE INDEX entry. The MCRTIDX is defined with MC ROUTE TYPE equal to "MC" and CARRIER ID equal to some numeric.

For the OUTWATS SFG case, which is available for EDSL (Extended Digital Subscriber Line) trunks, the MCRTIDX is defined with MC ROUTE TYPE equal to "SFG", the SFG NUMBER entered and a CARRIER ID entered. The EDSL feature, which is available in 5E4(2) and later Software Releases, uses the MC ROUTE INDEX to gain access to SFGs. This route may be any route in an ARS route sequence or may be a unique route from the PFA Group information. If an SFG "port" associated with the OUTWATS SFG is available, then a Screening Index and an optional OUTWATS Billing Number is accessed from the PFASFG form (5609-3 Record). If all of the OUTWATS SFG "ports" are busy, the NEXT MC ROUTE INDEX is checked for the next route.

For both overflow to POTS and the successful access of an OUTWATS SFG "port", the Carrier ID is used to access the appropriate ICF form (5305 Record). From this point on, the call processes like any POTS call would, including checking for consistency between the type of carrier and Type of CI Call. If the ICF form has DIG ROUTING equal to "Y", the CDIM form (5300-6 Record) is accessed for the Carrier's routes. If the Carrier ID is defined as the LEC (Local Exchange Carrier), the calls may route to either lines or trunks based on entries from POTS digit analysis. The call continues by entering the RAR form (5301 Record). The Screening Index from the PFASFG is used for OUTWATS calls and the terminal's Screening Index is used for overflow to POTS calls.

A Carrier ID is required on the MCRTIDX for both of these cases, even when other Carrier Interconnect information has not been entered for this office. Until Carrier Interconnect is active, any Carrier ID may be entered as long as it is defined on an ICF form with one of the test ACCESS TYPEs. This will cause the calls to route as if they were not carrier calls.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MC ROUTE INDEX

Description: Enter the number of the MC ROUTE INDEX being defined.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.3 # MC ROUTE TYPE

Description: Enter the MC Route Type which defines the routing treatment.

Required Field.

Valid MC ROUTE TYPE Entries	
Entry	Definition
ASP	Software Release: 5E8 and later. Used for ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) calls coming from an ARS list. When this route type is used, an ASP origination will occur resulting in either a route to an SSP (Service Switching Point) if at an NAP (Network Access Point) or a query to an SCP (Service Control Point) if at an SSP. This route type cannot be entered when ASP OFC (PVN OFC for 5E6 -5E7) on the OFCOPT form is set to "NONE", since that would indicate that the office does not support ASP.
BUSY	Software Release: 5E7 and later. Busy tone treatment for failure.
DNTRAN	Software Release: 5E5 and later. Used for Inter-module trunks secondary routes across NCT links. When this route type is used, the TN will be completed across the NCT links if the TN terminates on the same Switch. If the TN does not terminate on the host Switch, the call will fail.
MC	Used for hunting a specified Trunk Group or for overflow to POTS.
PVN	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASP". See the description under "ASP".
REORD	Reorder tone.
SFG	Used for hunting a specified Simulated Facility Group.

Data Rules:

ASP

If "ASP" is entered, then the following cannot be entered:

- CARRIER ID
- SFG NUMBER

If "ASP" is entered and ASP OFC set to "SSP" on the OFCOPT form, then the TRUNK GROUP NUMBER, DIGITS TO BE DELETED, PREFIX DIGITS, NEXT ROUTE, and NEXT MC ROUTE INDEX cannot be entered.

BUSY or REORD

If "BUSY" or "REORD" is entered, then the following cannot be entered:

- DIGITS TO BE DELETED
- PREFIX DIGITS
- SFG NUMBER
- TRUNK GROUP NUMBER

If "BUSY" or "REORD" is entered, then PERFORM PREEMPT HUNT must be "N".

MC

If "MC" is entered and TRUNK GROUP is unknown, then CARRIER ID must be entered.

If "MC" is entered, then SFG Number cannot be entered.

If "MC" is entered and TRUNK GROUP NUMBER AND NEXT ROUTE are entered, and the corresponding TKGRP form has INTER SM TRK of "Y" (TGN matches the TRUNK GROUP NUMBER on this form) then the NEXT ROUTE values on the TKGRP are MC ROUTE INDEX values and must be defined on another MCRTIDX form. In addition, if the MC ROUTE TYPE on the second MCRTIDX is "DNTRAN", NEXT ROUTE on that MCRTIDX form must match the NOC on the NOC form.

SFG

If "SFG" is entered, then SFG NUMBER must be entered, and PERFORM PREEMPT HUNT must be "N".

2.4 TRUNK GROUP NUMBER

Description: Enter the Trunk Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 - 5E14: 1 - 4000

For 5E15: 1 - 4000 for circuit trunk groups or 7000 - 7999 for BICC groups

For 5E16 and later: 1 - 4000

NOTE: Entries greater than 999 are allowed only when the range of 1-999 is completely exhausted.

Data Rules:

For 5E4(2) and later, do not enter a value in this field when the MC ROUTE INDEX on this form equals the MC ROUTE INDEX on a TKEDSLD form (5209 Record). Also, if the SFG TYPE value on the PFASFG form (5609-3 Record) is "OUTWATS", "EDSL", "OESSX" or "2WESSX" leave this field blank.

If SFG NUMBER is entered and a PFASFG form is defined with the SFG NUMBER and an SFG TYPE of "EDSL", "MEGACOM", "OUTESSX", "OUTWATS" or "2WESSX" then this field cannot be entered.

When the MC ROUTE TYPE is "MC", either a TRUNK GROUP NUMBER or a CARRIER ID must be entered. When the MC ROUTE TYPE is "REORD" or "DNTRAN", leave this field blank.

If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form (5509 Record) is "BILLNAP" or

"NOBILLNAP", then this field must be entered. When MC ROUTE TYPE is "PVN", the corresponding TKGRP form (5202 Record) must have OUTPUTSING set to "MF" or "ISUP7". If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form is "SSP", then this field cannot be entered since the MC ROUTE TYPE triggers a query to the SCP from this SSP.

If TRUNK GROUP NUMBER is entered, and OUTPUTSING is "ISUP7" and MINT SIG TYPE is entered on the corresponding TKGRP form, SIGNALING PROTOCOL must not be "FGB" on the MCRTIDX form.

For 5E12 and later, when TRUNK GROUP NUMBER is entered on the MCRTIDX form, the TRUNK GROUP NUMBER must be defined on the TKGRP form.

For 5E12 and later, when TRUNK GROUP NUMBER is entered on the MCRTIDX form, and OUTPUTSING is "MF" and MINT SIG TYPE is entered on the corresponding TKGRP form, SIGNALING PROTOCOL must be "TRAD" on the MCRTIDX form.

5E16(2) and later

When TRUNK GROUP NUMBER is entered on the MCRTIDX form, and PKT GRP is entered on the TKGRP form, then

MC ROUTE TYPE must be "MC".

CARRIER ID must not be entered.

SEGMENTED SIGNALING must be "N".

OVERLAP OUTPUTSING must be "N".

SIGNALING PROTOCOL must be "EA", "TRAD", "FGB", or "INC".

CI ROUTE TYPE must be "OTHER", "STG", or "DTG" when SIPT GRP is "Y" and TRKCLS is "TTOLLCON", "LATA", or "IC" on the TKGRP form, otherwise it must be "OTHER" or "STG".

PERFORM PREEMPT HUNT? must be "N".

ANI6 must be "N".

ANI7 must be "N".

When TRUNK GROUP NUMBER is entered on the MCRTIDX form, and PKT GRP is entered on the TKGRP form, and SIPT GRP is "N" or TRKCLS is "LTOLLCON", "LATA", or "IC", then TERM NSC and RTE SEARCH LMT must not be entered.

2.5 SFG NUMBER

Description: Enter the Simulated Facility Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

When the MC ROUTE TYPE is "SFG", this field must have an entry. When the MC ROUTE TYPE is "MC",

"DNTRAN", "REORD", or "PVN", leave this field blank. If both the SFG NUMBER and CARRIER ID fields are entered, then a PFASFG form must be entered with the SFG NUMBER and a SFG TYPE of "OUTWATS" or "EDSL". For the 5E5 Software Release, SFG TYPE may also be "OUTWATS", "EDSL", "OESSX" or "2WESSX". In 5E6, SFG TYPE may also be "MEGACOM" or "M800".

For 5E11 and later, when the MCRTIDX input form(s) are defined with known values for the SFG NUMBER and the CARRIER ID there must be PFASFG form(s) defined with an SFG NUMBER as the key and the corresponding SFG TYPE set to "EDSL", "HM", "MEGACOM", "M800", "OESSX", "OUTWATS", "SCOCS", "SDN", or "2WESSX".

When the MCRTIDX form has SFG NUMBERS defined on PFASFG forms with a SFG TYPE of "INFX", "INTIE", "HM", "OUTFX", "OUTTIE", "SCOCS", "2WFX" or "2WTIE", NEXT ROUTE can not be entered on the MCRTIDX form.

2.6 CHARGE INDEX

Description: Enter the CHARGE INDEX. The CHARGE INDEX is used when the MCRTIDX being defined is used for ARS and is not an OUTWATS SFG or overflow to POTS. OUTWATS SFG and overflow to POTS calls, as well as PFA cases, will use the Charge Index (CHGI) found on the appropriate RAR form (5301 Record). The CHARGE INDEX is also used for overflow to a "2WESSX", "INESSX", "OUTESSX", "2WCCSA", "INCCSA", and "OUTCCSA" SFG.

Valid Entries: 1 - 2047

Data Rules:

For 5E7 and later when TRUNK GROUP NUMBER is entered, CHARGE INDEX must be entered to prevent AMA irregularities.

2.7 CARRIER ID

Description: Enter the InterLATA Carrier ID associated with the CI (Carrier Interconnect) capability.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

If a CARRIER ID is entered, it must be defined on an ICF form (5305 Record). In addition, for 5E8 and later, the ICF form's FEAT GRP must be equal to "D".

If both the SFG NUMBER and CARRIER ID fields are entered, then a PFASFG form must be defined with the SFG NUMBER and an SFG TYPE of "OUTWATS" or "EDSL". For 5E5, SFG TYPE may also be "OUTWATS", "EDSL", "OESSX" or "2WESSX". For 5E6, SFG TYPE may also be "MEGACOM" or "M800".

A CARRIER ID cannot be entered when MC ROUTE TYPE is "PVN".

When CARRIER ID is entered, TRUNK GROUP NUMBER may not be entered.

2.8 DIGITS TO BE DELETED

Description: Enter the number of digits to be deleted from the dialed number before PREFIX DIGITS, if any, are prefixed. This field is used when a TRUNK GROUP NUMBER has been entered. If no digits are to be deleted or if MC ROUTE TYPE is "REORD", leave this field blank. This field should be blank if this Route

Index is pointed to by a PFA (Private Facility Access) dial code (defined on a PFAGPA form) that is used to access a cut-through trunk (DIG COLL field on the PFAGPA form is "N").

Valid Entries: 1 - 15

Data Rules:

If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form (5509 Record) is "SSP", then this field cannot be entered.

2.9 PREFIX DIGITS

Description: Enter digits to be prefixed for outpulsing. If MC ROUTE TYPE is "REORD", leave this field blank.

Valid Entries: up to 10 digits

Data Rules:

If PVN OFC on the OFCOPT form (5509 Record) is "BILLNAP" or "NOBILLNAP" and MC ROUTE TYPE is "PVN", then PREFIX DIGITS must be filled out in one of two ways depending on type of outpulsing available on the trunk group; if OUTPUTSING on the associated TKGRP form (associated via TRUNK GROUP NUMBER on this form) is set to "MF", then PREFIX DIGITS must contain the 0ZZ value (where Z = 0 - 9) to be outpulsed; if OUTPUTSING on the associated TKGRP form is set to "ISUP7", then PREFIX DIGITS must contain the circuit code (range 00 - 15) to be sent in the CCS IAM (Initial Address Message) message to the SSP for conversion to an 0ZZ or 1NX code via the CKTCODE form (5311 Record, providing that the far end is a 5ESS Switch). If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form (5509 Record) is "SSP", then this field cannot be entered.

2.10 NEXT ROUTE

Description: Enter the alternate POTS Route Index. This field is checked only when the route is associated with an SFG, an SFG "port" is successfully accessed but the physical trunks are all busy. This is not applicable for OUTWATS SFGs.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11: 1 - 4095

For 5E12: 1 - 4095 for a Route Index or 1 - 8190 for a Normalized Office Code (MC ROUTE TYPE = "DNTRAN")

For 5E13 and later: 1 - 16382 for a Route Index or 1 - 8190 for a Normalized Office Code (MC ROUTE TYPE = "DNTRAN")

Data Rules:

If MC ROUTE TYPE is "DNTRAN", then a Normalized Office Code (NOC) must be entered in this field. The NOC entered must be defined on a NOC form (5501 Record).

For DSN (Defense Switched Network) offices, there are two special applications for the NEXT ROUTE INDEX field. These applications apply when an MC ROUTE INDEX is associated with an SFG that has been defined on the PFASFG form with an SFG TYPE of either "EOPAT" (End Office Precedence Access Threshold) or "NETPAT" (Network Precedence Access Threshold).

- When the SFG TYPE is "EOPAT", the NEXT ROUTE INDEX is actually another MC ROUTE INDEX and must be defined on the MCRTIDX form.

- When the SFG TYPE is "NETPAT", the NEXT ROUTE INDEX is a ROUTE PATTERN value and must be defined on the PPPOLY form (5618-7 Record). Ordinarily, the route index obtained from digit analysis (LDIT) would be used as the ROUTE PATTERN entry on the PPPOLY form, unless a route index value is entered here, which would override the route index obtained from digit analysis.

If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form (5509 Record) is "SSP", then this field cannot be entered.

2.11 NEXT MC ROUTE INDEX

Description: Enter the alternate MC ROUTE INDEX This field is checked when all of the ports are busy. The ports will be physical trunks if a TRUNK GROUP NUMBER has been entered or they will be simulated if an SFG NUMBER has been entered. An entry here specifies the next route to attempt.

Valid Entries:

For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13: 1 - 16382

Data Rules:

If a true alternate MC ROUTE INDEX is not required, the NEXT MC ROUTE INDEX field is left blank and reorder will be automatically provided on overflow for all SFG TYPES defined on a PFASFG form (5609-3 Record) except "INWATS", "IESSX" and "2WESSX". (However, an MCRTIDX should be defined for this office with MC ROUTE TYPE equal to "REORD".) However, if the SFG TYPE is "INWATS", "IESSX" or "2WESSX", and a true alternate MC ROUTE INDEX is not required, then the NEXT MC ROUTE INDEX field is left blank and if it is a LINE TERMINATION then a busy treatment is automatically returned on overflow, and if it is a trunk termination then a REORDER treatment is returned on overflow.

If this field has a value, and MC ROUTE TYPE on this form is "REORD", then reorder will be provided for the three previously mentioned SFG TYPES.

If a NEXT MC ROUTE INDEX is specified, the numeric value must not equal the value of the MC ROUTE INDEX being defined. That is, an MC ROUTE INDEX may not alternate to itself.

When an alternate Route Index is defined for a PFA (Private Facility Access) trunk, the Trunk Group associated with the alternate Route Index must have the same characteristics as the primary Trunk Group. For example, if a primary route points to a cut-through trunk, then the alternate Route Index should also point to a cut-through trunk.

If MC ROUTE TYPE is "PVN" and PVN OFC on the OFCOPT form (5509 Record) is "SSP", then this field cannot be entered.

2.12 SEGMENTED SIGNALING

Description: Will a cut-through indicator for ARS Segmented Signaling be required?

Software Release: 5E3 and later

Valid Entries: Y, N

Data Rules:

If a "Y" is entered, the MC ROUTE TYPE must be "MC" and the TRUNK GROUP NUMBER entered must be

defined on the TKGRP form with the CUT THRU field set to "Y".

2.13 OVERLAP OUTPUTPULSING

Description: Is Overlap Outputpulsing allowed for this MC ROUTE INDEX? This field is applicable only when a TRUNK GROUP NUMBER has been entered.

Valid Entries: Y, N

2.14 SIGNALING PROTOCOL

Description: Enter the SIGNALING PROTOCOL to be used for this MC ROUTE INDEX. If the TRUNK GROUP NUMBER field is left blank, ODA will use "TRAD" in the 5ESS Switch database. This field is applicable only when a TRUNK GROUP NUMBER has been entered.

Valid SIGNALING PROTOCOL Entries	
Entry	Definition
TRAD	Traditional LAMA/CAMA signaling.
EA	Carrier Interconnect Equal Access signaling. For 5E8 and earlier, this is used in FGD and FGB Transitional Access where CIC (Carrier Identification Code) is 000 - 999. For 5E9(1) and later, this is used in FGD where the CIC is 0000 - 9999, and for Transitional Access where the CIC is 0000 - 0999.
INC	Carrier Interconnect Equal Access signaling for international calls.
FGB	Carrier Interconnect signaling to Feature Group B carriers that utilize the Interim Carrier access dialing plan, 950-1XXX. For 5E8 and later, the dialing plan is 950-XXXX.
PNANI	Software Release: 5E7 and later. SIGNALING PROTOCOL "PNANI" is used by the Automatic Number Identification over Private Facilities special feature. This feature must be purchased by the office.

Data Rules:

If TRUNK GROUP NUMBER is not entered, then SIGNALING PROTOCOL cannot be entered.

If this MC Route Index is associated with a PFA dial code (defined on a PFAGPA form), then this field should be "TRAD".

For 5E7 and later, for the ANI over PF feature, SIGNALING PROTOCOL must be "PNANI". When "PNANI" is entered, CI ROUTE TYPE must be "OTHER", OVERLAP OUTPUTPULSING must be "N", and ANI OUTPUTPULSING must be "Y". The ANI over PF special feature will allow only the following classes of service on the originating port: "PF", "PFITT" (PF Intertandem Trunk), "INDIV" (Individual Line), "ISDN" (Digital Subscriber Line associated with ISDN service), "ATTENDANT" (Attendant Line), and "ISATND" (ISDN Attendant). "PNANI" may not be entered unless the ANI over PF secured feature has been activated with FEATURE ID 5 set to "S" on the SFSYS form (5713 Record). (See Division 2, Section 4A5 for information on secured features.)

For 5E7 and later, when SIGNALING PROTOCOL is "EA", CI ROUTE TYPE must be entered and must not be "OTHER".

2.15 FGD CIC 4

Description: Is the SSP capable of handling a four-digit CIC? A value of "Y" means a 4-digit CIC is used; "N" means the 3-digit CIC is still being used. This capability is indicated to the SCP.

Software Release: 5E9(1) and later
Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When FGD CIC 4 is "Y",

- SIGNALING PROTOCOL must be "TRAD", "EA" or "INC", and TRUNK GROUP NUMBER must be entered.
- If SIGNALING PROTOCOL is set to "TRAD", the TRUNK GROUP NUMBER must be defined on a corresponding TKGRP form with TRKCLS set to either "EDSL", "EDSLHM", or "IC".

2.16 CI ROUTE TYPE

Description: Enter the Route Description Type used for the Carrier Interconnect capability (but not just for carrier calls). This field is applicable only when a TRUNK GROUP NUMBER has been entered.

Valid CI ROUTE TYPE Entries	
Entry	Definition
OTHER	Unspecified route type; this value should not be used for any announcement or tone route.
DTG	The MC ROUTE INDEX points to a Trunk Group that is direct to an IC (InterLATA) or an INC (International Carrier).
STG	The MC ROUTE INDEX points to a shared Trunk Group from an EAEO (Equal Access End Office) to an AT (Access Tandem) and is used for calls bound for an IC/INC.
DTGOFL	The MC ROUTE INDEX points to a tone or announcement on overflow from a DTG type Route Index.
STGOFL	The MC ROUTE INDEX points to a tone or announcement on overflow from a STG type Route Index.
ALTRKBSY	The MC ROUTE INDEX points to a tone or announcement because of an all trunks busy condition.
GENANN	The MC ROUTE INDEX points to an unspecified tone or announcement.
NMFAIL	The MC ROUTE INDEX points to a tone or announcement due to NM (Network Management) blocking.
BADLATA	The MC ROUTE INDEX points to a tone or announcement due to the IC/INC misrouting the call. This may be a call terminating to an AT from an IC/INC or to an EAEO if the Trunk Group is direct (not tandem) from an IC/INC.
ICRSTRT	The MC ROUTE INDEX points to a tone or announcement due to an InterLATA carrier restriction.

Data Rules:

Sometimes more than one MC ROUTE INDEX is required to specify more than one relevant entry in this field, even though they point to the same Trunk Group. For example, if overflow from direct Trunk Groups to carriers and overflow on local company Trunk Groups route to the same announcement, it is necessary to define two Route Indexes to establish proper measurements.

2.17 FRL GROUP

Description: This field is used only for ARS routes. It indicates the minimum level of FRL (Facility Restriction Level) needed to use this route.

Each terminal which has been assigned an ARS feature has also been assigned an FRL as a default parameter on an ARSFD form or on an ARSLPA, ARSMPA, or ARSTPA form. The terminal must have an FRL number greater than or equal to the FRL of the route to succeed. If the FRL of the terminal is less than the FRL of the route, then reorder tone is applied.

If an FRL is not used, leave this field blank.
Valid Entries: 0 - 16

2.18 WARNING TONE

Description: Has this route been labeled as an expensive route? This field is used for ARS routes only.
Valid Entries: Y, N

Data Rules:

Each terminal which has been assigned an ARS feature has also been assigned a Tone Type as a default parameter of an ARSFD form or on an ARSLPA, ARSMPA or ARSTPA form. When Warning Tone is Yes, the Tone Type is checked to see what tone, if any, is applicable.

WARNING TONE cannot be "Y" when MC ROUTE TYPE is "PVN".

2.19 PERFORM PREEMPT HUNT?

Description: Is a preemptive hunt of the trunk members to be done? An entry of No indicates that this is a hunt for an idle trunk member. This field is associated with DSN (Defense Switched Network). The DSN (Defense Switched Network) capability is defined using the BRCS feature, Precedence and Preemption.
Valid Entries: Y, N

Data Rules:

If the Trunk Group specified in TRUNK GROUP NUMBER is preemptable, enter "Y".

Enter "N" if MC ROUTE TYPE is "SFG" or "REORD". The Trunk Group is preemptable if the HUNT TYPE specified on the TKGRP form (5202-1 Record) is "PRFF", "PRBL" or "PRFL". If the TRUNK GROUP NUMBER is not entered or it is not preemptable, leave this field blank.

When both an Idle and Preemptive Hunt are to be performed on the same Trunk Group, then two MC ROUTE INDEXs must be defined with "N" or "Y" entered for this field. For example, an idle hunt is to be done on Trunk Group 100, and then a preemptive hunt for a busy trunk with a lower precedence level on the same Trunk Group. Then, MC ROUTE INDEX 10 would be defined with TRUNK GROUP NUMBER equal to 100, NEXT MC ROUTE INDEX equal to 11 and PERFORM PREEMPT HUNT equal to "N". MCRTIDX 11 would be defined with TRUNK GROUP NUMBER equal to 100, NEXT MC ROUTE INDEX blank and PERFORM PREEMPT HUNT equal to "Y". (Additional Trunk Groups may be hunted on an idle and/or preemptive basis. This is controlled via the NEXT MC ROUTE INDEX.) Note that instead of Reorder, the Fixed Route Type of "PPBPC" will be invoked when the NEXT MC ROUTE INDEX is blank.

In the example described above, MCRTIDX 10 would be pointed to by an entry specified on the PPSCRN form (5618-2 Record).

2.20 RTE CAT

Description: Enter the routing category or route numbering plan that the FTS-2000 call will use to complete the call. If no entry is made in this field, then the existing route category or route numbering plan is used. The value entered in this field overrides the routing category or route numbering plan which would have been used if this field been left blank.

This field is used by the FTS-2000 INPA feature. For more information on this feature see Division 2, Section 4C8.

Software Release: 5E9(1) and later.

Valid Entries:

Valid RTE CAT Entries	
Entry	Definition
APN	Action Point Numbering Plan
INTL	International Numbering Plan
NANP	North American Numbering Plan

Data Rules:

If this field is entered, then a DAS must be entered on the OFCOPT form (5509 Record).

2.21 CRANKBACK

Description: Can a crankback message be sent to the previous switch? When a Leased Network Inter-machine switch has exhausted the ARS routing list and is unable to route a call, it may send a crankback message to the LN switch that originated the call. The originating switch can then attempt to reroute the call through another switch.

Software Releases: 5E6 and later

Required field.

Default Value: N

Valid Entries: Y, N

Data Rules:

When CRANKBACK is "Y", TRUNK GROUP NUMBER must be entered and must be defined on a TKGRP form (5202 Record) that has LN TYPE set to "IMT". SFG NUMBER on this form must be blank.

If NEXT MC ROUTE INDEX is entered, then CRANKBACK must be "N".

ANI

The following fields Section 2.22 -Section 2.25 refer to the Automatic Number Identification feature. The ANI6 and ANI 7 fields were added with the ANI6/ANI7 on a Trunk Group or an OUTWATS SFG capability.

2.22 ANI OUTPUTSING

Description: Is ANI (Automatic Number Identification) Outputting allowed for this MC ROUTE INDEX? This field is applicable only when a TRUNK GROUP NUMBER has been entered.

Valid Entries: Y, N

Data Rules:

For 5E7 and later, if TRUNK GROUP NUMBER is not entered, and MC ROUTE TYPE is not "SFG", then ANI OUTPUTSING must be "N" or not entered.

2.23 ANI6

Description: Should the ANI6 digits 6 or 06 be outputted? ANI6 indicates to the operator system that calls may require special screening. This capability provides the ability based on the originating Trunk Group or OUTWATS SFG to optionally output ANI6 digits when making an OUTWATS SFG call or a trunk origination when the trunk class of service is "PF", "PFITT", or "PFLASH". Traditionally, ANI6 indicates that the call is from a Hotel/Motel customer.

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

If ANI6 is "Y", the following must be true:

ANI7 must not equal "Y"

ANI OUTPUTSING must be "Y"

ANI II DIGITS must not be entered

MC ROUTE TYPE must be "SFG"

SFG NUMBER must be defined on a PFASFG
form must have an SFG TYPE of "OUTWATS".

For 5E11 and later, when the MCRTIDX forms have ANI6 set to "Y", the SFG TYPE on the corresponding PFASFG form must be set to "HM" or "OUTWATS".

2.24 ANI7

Description: Should the ANI7 digits 7 or 07 be outputted? ANI7 indicates to the operator system that calls may require special screening. Traditionally, ANI7 indicates that the call is from a coin phone.

This capability provides the ability based on the originating Trunk Group or OUTWATS SFG to optionally output ANI7 digits when making an OUTWATS SFG call or a trunk origination when the trunk class of "PF", "PFITT", or "PFLASH".

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

If ANI7 is "Y", the following must be true:

ANI6 must not equal "Y"

ANI OUTPUTSING must be "Y"

ANI II DIGITS must not be entered

MC ROUTE TYPE must be "SFG"

SFG NUMBER must be defined on a PFASFG
form must have an SFG TYPE of "OUTWATS".

For 5E11 and later, when the MCRTIDX forms, have ANI7 set to "Y", the SFG TYPE on the corresponding PFASFG form must be set to "SCOCS" or "OUTWATS".

2.25 ANI II DIGITS

Description: Enter ANI pairs assigned to the MC ROUTE INDEX. Flexible ANI is secured feature for Automatic Number Identification.

Software Release: 5E6 and later

Valid Entries: 00 - 99

Data Rules:

If ANI II DIGITS is entered, then:

- MC ROUTE TYPE must be "SFG"
- ANI OUTPUTSING must be "Y"

2.26 RTE SEARCH LMT

Description: Enter the Route Search Limit. This field was added to support the 99-5E-3782 feature (Multi-Vendor Intra-Network Trunk). For more information, see Div. 2 Sec. 4A217.

Software Release: 5E12 and later

Valid Entries: 1 - 15 or blank

Data Rules:

If RTE SEARCH LMT is entered, OUTPUTSING must be "ISUP7" and MINT SIG TYPE must be "ALPHA", "BETA" or left blank. A blank means, no route search limit.

2.27 TERM NSC

Description: Enter the Terminating Network Screening index. This field was added to support the 99-5E-3782 feature (Multi-Vendor Intra-Network Trunk). For more information, see Div. 2 Sec. 4A217.

Software Release: 5E12 and later

Valid Entries: 0 - 999 or blank

Data Rules:

If TERM NSC is entered, the TERM NSC must be defined on the LDPTNSC form (5568 Record).

If TERM NSC is known, MINT SIG TYPE must be known on the TKGRP form. In addition, if MINT SIG TYPE is "BETA" on the corresponding TKGRP form, TERM NSC must be between 0 and 63 on the MCRTIDX form. TRUNK GROUP NUMBER on the MCRTIDX form matches TGN on the TKGRP form.

CRITICAL DATA INDICATOR

The following (fields Section 2.28 - Section 2.29) support the RC Translations Protection For Highly Critical Elements feature, see Division 2, Section 1BY for more information.

2.28 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the route index data is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.29 CRIT RMK

Description: This field enhances the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT RMK field is used to enter a remark to explain why this route index data is critical.

Software Release: 5E15 and later

Valid Entries: Enter up to 32 characters

Data Rules:

When the MCRTIDX form has the CRIT RMK field entered, the SFSYS form SFID 566 ACT field must be set to "Y".

mcrtidx	5ESS Switch		
SCREEN 1 OF 2	OFFICE DATA ADMINISTRATION		
(5304-1/2)	BRCS MC ROUTE INDEX EXPANSION		
*1. MC ROUTE INDEX	00001	13. SIGNALING PROTOCOL	_____
#2. MC ROUTE TYPE	ASP	14. FGD CIC 4	N
3. TRUNK GROUP NUMBER	_____	15. CI ROUTE TYPE	_____
4. SFG NUMBER	_____	16. FRL GROUP	_____
5. CHARGE INDEX	_____	17. WARNING TONE	_____
6. CARRIER ID	_____	18. PERFORM PREEMPT HUNT?	_____
7. DIGITS TO BE DELETED	_____	19. CRANKBACK	N
8. PREFIX DIGITS	_____	20. RTE CAT	_____
9. NEXT ROUTE	_____		
10. NEXT MC ROUTE INDEX	_____		
11. SEGMENTED SIGNALING	_____		
12. OVERLAP OUTPUTSING	_____		

mcrtidx	5ESS Switch		
SCREEN 2 OF 2	OFFICE DATA ADMINISTRATION		
(5304-1/2)	BRCS MC ROUTE INDEX EXPANSION		

ANI	
21. ANI OUTPUTSING	_____
22. ANI6	N
23. ANI7	N
24. ANI II DIGITS	_____
25. RTE SEARCH LMT	_____
26. TERM NSC	_____
27. CRIT IND	N

Figure 1 SAMPLE MCRTIDX FORM 5E13 THROUGH 5E14 SOFTWARE RELEASES

mcrtidx	5ESS Switch	
SCREEN 1 OF 3	OFFICE DATA ADMINISTRATION	
(5304-1/2)	BRCS MC ROUTE INDEX EXPANSION	

*1. MC ROUTE INDEX	_____	13. SIGNALING PROTOCOL	_____
#2. MC ROUTE TYPE	_____	14. FGD CIC 4	N
3. TRUNK GROUP NUMBER	_____	15. CI ROUTE TYPE	_____
4. SFG NUMBER	_____	16. FRL GROUP	_____
5. CHARGE INDEX	_____	17. WARNING TONE	_____
6. CARRIER ID	_____	18. PERFORM PREEMPT HUNT?	_____
7. DIGITS TO BE DELETED	_____	19. CRANKBACK	N
8. PREFIX DIGITS	_____	20. RTE CAT	_____
9. NEXT ROUTE	_____		
10. NEXT MC ROUTE INDEX	_____		
11. SEGMENTED SIGNALING	_____		
12. OVERLAP OUTPULSING	_____		

mcrtidx	5ESS Switch	
SCREEN 2 OF 3	OFFICE DATA ADMINISTRATION	
(5304-1/2)	BRCS MC ROUTE INDEX EXPANSION	

ANI	
21. ANI OUTPULSING	_____
22. ANI6	N
23. ANI7	N
24. ANI II DIGITS	_____
25. RTE SEARCH LMT	_____
26. TERM NSC	_____

mcrtidx	5ESS Switch	
SCREEN 3 OF 3	OFFICE DATA ADMINISTRATION	
(5304-1/2)	BRCS MC ROUTE INDEX EXPANSION	

CRITICAL DATA INDICATOR	
27. CRIT IND	N
28. CRIT RMK	_____

Figure 2 SAMPLE MCRTIDX FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 3R: 5305-1/2 RECORD CARRIER ADMINISTRATION FORM - ICF

1. GENERAL

The 5305 Record is available with 5E2 and later Software Releases, and is used to define the characteristics of Inter-LATA (Local Access Transport Area) and Intra-LATA carriers.

The determination of the Carrier Identification Code on a carrier call is done in one of eight ways:

1. The line is presubscribed to a carrier.

A PIC (Pre-subscribed Inter-LATA Carrier) Identification number is entered on a LINE form (5109 Record).

2. The line belongs to an IDP (Individualized Dialing Plan) which has a GPIC (Group PIC).

The GPIC is entered on an IDPGP form (5601-4 Record).

3. The office has defined a carrier that is used when the subscriber does not have a PIC or GPIC and has not dialed a carrier access number or prefix.

The OFFICE CARRIER ID is entered on the OFCOPT form (5509 Record).

4. The line dials a carrier access number in the format of 950-WXXX.

W is any digit from 0-9 (usually 1), and XXX is the Carrier Identification Code.

5. The line dials a carrier access number in the format of 950-XXXX.

XXXX is the Carrier Identification Code. This took effect in 5E8 and later, when Feature Group B was expanded. See Division 2, Section 1AY for a description of Feature Groups B and D.

6. The line dials a carrier access prefix in the format 10XXX, where XXX is the Carrier Identification Code.

7. The line dials a carrier access prefix in the format 101XXXX, where XXXX is the Carrier Identification Code.

This was available in 5E9(1) and later, when Feature Group D was expanded. See Division 2, Section 1BI for a description of Feature Group D expansion.

8. An end-user line is identified as being presubscribed to a CIC (Carrier Identification Code) as its Alternate Local Service Provider. A CIC is entered in the PLC field on the LINE form (5109 Record). See Division 2, Section 4A269 for more information concerning the Alternate Local Service Provider secured feature.

The format 10XXX or 101XXXX is known as the FGD CAC (Carrier Access Code). The value allowed in the office depends on the value of the FGD PHASE field on the OFCOPT form. See the OFCOPT form and Division 2, Section 1BI for more information on the FGD CAC.

1.1 Carrier Definition

Each carrier is defined with CARRIER TYPE, access method and routing information. All carriers used for

Carrier Interconnect subscriber access in this office must be defined, including the LEC (Local Exchange Carrier).

1.2 Route Indexes

All Route Indexes assigned on this form must also appear on an RTIDX form (5303-1/2 Record). The carrier's specific Code Indexes and Route Indexes may be entered on this record. Depending on the classification of the call by the regular digit analysis forms (PDIT, LDIT, and IDDD) the appropriate pair of Code Index and Route Index is determined. When the TYPE OF CI CALL is "SAC", the LDIT Code Index and Route Index are used to route the call. For this type of carrier call, the ICF form is checked to determine the validity of the Carrier ID and to see if overlap outpulsing might be required. The Code Index is used with both the originator's Screening Index (defined on the LCC form) and the prefix dialed to determine which Rate and Route entry to use for screening this call. The Route Index is considered to be the Regular Route Index and will be used to route the call if the RTI field on the RAR form (5301 Record) equals "REGL". If the Regular Route Index is inappropriate, a Special Route Index may be entered on the RAR form which will override the Regular Route Index.

1.3 OSPS Toll and Assistance Applications

For a carrier-owned 5ESS Switch that supports an OSPS Toll and Assistance application, an ICF form entry must be defined for the switch owner. However, the routing information for the switch owner is defined using the POTS digit analysis forms (PDIT, LDIT and IDDD). The Code Index and Route Index entries on this form should be set so that using them will cause a call to route to reorder.

1.4 Carrier Destination Mapping

If the Code Index/Route Index classifications are not explicit enough to correctly route calls to the carrier, then the DIG ROUTING field may be entered as "Y". In this case, the Carrier Destination Mapping Record (CDIM form; 5300-6 Record) is used to determine the carrier's specific Code Indexes and Route Indexes. The carrier's Code Indexes and Route Indexes do not require entry on the ICF form when DIG ROUTING is "Y".

The carrier's specific Code Indexes and Route Indexes may be entered on the ICF form, even when DIG ROUTING equals "Y". During call processing on a carrier call, the appropriate Code Index/Route Index pair will be selected from the ICF form. Then if DIG ROUTING is "Y", the CDIM form will be checked next. When an entry is found on the CDIM form for the call in progress, the CDIM form Code Index/Route Index pair will override the ICF form pair. When no entry for this call is found on the CDIM form, call processing will use the pair that was selected from the ICF form. Therefore, the CDIM form may be used to provide exceptions to the ICF form entries.

1.5 LEC Service and Carrier Name

Two new fields, LEC SERVICE and CARRIER NAME, were added with the introduction of OSPS Toll and Assistance features in the 5E4(2) Software Release.

The default inter-LATA and international carrier for a forward number are both specified in the OPRTK form (5417 Record). To utilize OSPS, the LEC SERVICE field of the ICF form (5305 Record) for the carrier must be set to "Y".

On a 5ESS Switch owned by an inter-LATA carrier, no data would normally be defined using this form. The exception to this general rule is for an inter-LATA carrier-owned 5ESS Switch that supports the OSPS TA application. In this case, there must be an ICF form entry for the switch owner (defined in the OFC TYP and OFC CARR fields of the OSPSOPT form (5424 Record)). While the routing information defined on this form is

not used for call routing, the following fields are used in call processing: CARRIER TYPE, ACCESS TYPE, INTRA-LATA, LEC SERVICE and CARRIER NAME. The following fields are not used and should be set to "N": LONG REC, DIG ROUTING, CUT IND, OVERLAP, SAC OVERLAP and CAC SCRNING.

1.6 Carrier not a Switch Owner

In an OSPS application, when a carrier different from the switch owner is used to route a call, RSM-specific (Remote Switching Module) data is found in the RSMCAR form (5421 Record). This record is required if any OSPS call from an RSM is to route to this carrier. The data it contains is used in place of the routing information found in the ICF form. This form is not needed for a carrier if operator calls for this carrier are sent to the carrier's own operator system and if the carrier is not used to route any numbers the operator may dial.

1.7 Feature Groups B and D

In 5E8, this form was modified to split administration of the two Feature Groups, B and D. The CARRIER ID field was increased from 3 digits to 4 digits for Feature Group B. A new key field, FEAT GRP, was added to distinguish between Feature Groups B and D.

A new field, MEASUREMENT, was added to indicate if a carrier needs traffic measurements. A new field, TRANS CARRIER, was added to give the Feature Group D transition carrier identification for Feature Group B carriers. Existing fields, TRANSRTI and TRANS CDI were renamed as FGBRTI and FGBCDI, respectively.

In 5E9(1), the CARRIER ID field was increased from 3 digits to 4 digits for Feature Group D.

1.8 Recent Change View

The corresponding Recent Change View for this form is 10.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * CARRIER ID

Description: Enter the FGB/FGD Interexchange Carrier Identification Code.

Required Field.

Valid Entries:

For 5E8: 0 - 999 for FGD

0 - 9999 for FGB

For 5E9(1) and later: 0 - 9999

Data Rules:

For 5E8 and later, an RSMCAR form (5421 record) is required when CARRIER ID is entered, FEAT GRP equals "D", and the following is true for this ICF form:

- ACCESS TYPE is entered as "BOTH" or "TBOTH",

- DIG ROUTING is entered as "N", and
- CARRIER TYPE is entered as "CONSOL".

The RSMCAR form(s) must have the following fields entered:

- DOMES CDI,
- DOMES RTI,
- FGB CDI,
- FGB RTI,
- INTL CDI,
- INTL RTI,
- SAC CDI,
- and SAC RTI.

2.3 * FEAT GRP

Description: Enter the Feature Group type.

Software Release: 5E8 and later

Required Field.

Valid Entries:

Valid FEAT GRP Entries	
Entry	Definition
B	Feature Group B
D	Feature Group D

Data Rules:

For Feature Group B entries:

- ACCESS TYPE must equal one of the following:

"ITRM"

"TRAN"

"TITRM"

"TTRAN"

- If DIG ROUTING is equal to "N", FGB CDI and FGB RTI are required; and
- No FEAT GRP D fields are allowed.
- SS7 OP CDI and SS7 OP RTI must not be entered.

For Feature Group D entries:

- CARRIER ID must be from 0 - 999 (5E8 only); For PLC (Presubscribed Local Carrier), CARRIER ID must be 0 - 9999 (for 5E12 and later).
- ACCESS TYPE must equal one of the following: "BOTH", "LTRM", "950", "TBOTH", "TLTM", "T950";
- If CARRIER TYPE is "CONSOL", ACCESS TYPE must not be "950" or "T950";
- If SCD SCRNING is "Y", ACCESS TYPE must not be "950" or "T950"; and
- No FEAT GRP B fields are allowed.
- For 5E8 and later, if FEAT GRP is "D", then separate all TREAT forms, with the CARRIER field entered, into groups with the same ORIG STAT TYPE on the TREAT form. There must be at least one TREAT form in each group for each ICF form where the CARRIER on the TREAT form matches the CARRIER ID on the ICF form.
- For 5E12 and later, when any of the PLC (Presubscribed Local Carrier) fields are entered, FEAT GRP must be "D".
- For 5E13 and later, when FEAT GRP is "B", Feature Group D fields must not be entered.

2.4 # ACCESS TYPE

Description: Enter the Carrier Interconnect dialed code Access Type. Two dialing methods are used for accessing the carrier:

1. Interim, where the subscriber dials 950-XXXX, where XXXX is the Carrier Identification Code.
2. Long term, where the subscriber dials the called number prefixed by the FGD CAC (Carrier Access Code).

For more information on Carrier Interconnect activation from a test state to a non-test state, please refer to 235-190-100 (FEATURE DESCRIPTIONS) under the "Toll and Carrier Features - Implementation and Administration".

Required Field.

Default:

ITRM if FEAT GRP equals "B"

LTRM if FEAT GRP equals "D"

Valid Entries:

Valid Feature Group B ACCESS TYPE Entries	
Entry	Definition
ITRM	The carrier accepts only Feature Group B interim calls only.
TRAN	The carrier accepts only the transition dialing access method.
TITRM	The carrier accepts only the interim dialing access method from test lines. Calls from non-test lines are not accepted.
TTRAN	The carrier accepts only the transition dialing access method from test lines. Calls from non-test lines are not accepted.
Valid Feature Group D ACCESS TYPE Entries	
Entry	Definition

950	The carrier accepts only the interim dialing access method.
BOTH	The carrier accepts both the interim and long term dialing access methods.
LTRM	The carrier accepts only the long term dialing access method.
T950	The carrier accepts only the interim dialing access method from test lines. Calls from non-test lines are not accepted.
TBOTH	The carrier accepts both the interim and the long term method from test lines. Calls from non-test lines are not accepted.
TLTM	The carrier accepts only the long term dialing access method from test lines. Calls from non-test lines are not accepted.

Data Rules:

If CARRIER TYPE is "CONSOL", then the ACCESS TYPE must not be "950" or "T950".

If the CARRIER TYPE is "INC", the ACCESS TYPE must be "LTRM" or "TLTM".

If the CARRIER TYPE is "LEC", the ACCESS TYPE must be "LTRM".

For 5E8 and later, if CARRIER TYPE is "PSEUDO", then the ACCESS TYPE must be "LTRM" or "TLTM".

For 5E8 and later, for Feature Group B entries:

- If ACCESS TYPE is equal to "TRAN" or "TTRAN":
 - TRANS CARRIER must be entered, and must equal the last three digits of the CARRIER ID, and
 - CARRIER ID must be either "0NNN" or "1NNN".
- If ACCESS TYPE is equal to "ITRM" or "TITRM", TRANS CARRIER is not allowed.

For 5E8 and later, for Feature Group D entries:

- If ACCESS TYPE is "950" or "T950", OVERLAP must be "N", and SACOV LAP must be "N".
- If ACCESS TYPE is "950" or "T950" and CARRIER TYPE is "IC", CUT CI must be "N".

For 5E12 and later, for Feature Group D entries:

When any Presubscribed Local Carrier fields are entered,

- FEAT GRP must be "D"
- CARRIER TYPE must be "IC" or "CONSOL".

2.5 LONG REC

Description: Should the terminating billing record that is generated be detailed (long)? If "N" is entered a short record is generated, which provides a minimum set of billing information and is generated for all answered calls.

The long record provides more detailed information and should be generated when required for study purposes. The long record is generated for answered and unanswered calls and includes the time that trunk seizure is recognized.

Required Field.
Default: N
Valid Entries: Y, N

2.6 MEASUREMENT

Description: Should traffic measurements be done for this carrier?

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E8, only 200 ICF forms can be assigned with MEASUREMENT equal to "Y". For 5E9(1) and later, only 500 ICF forms can be assigned with MEASUREMENT equal to "Y".

2.7 DIG ROUTING

Description: Is the CDIM (Carrier Destination Mapping form) checked next for Code Indexes and Route Indexes which may override possible entries on this form? Enter "N" if the carrier's Code Indexes and Route Indexes are only found on this ICF form.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, when CARRIER TYPE is "LEC", DIG ROUTING must be "N".

When "Y" is entered and CARRIER TYPE is "PSEUDO", this combination of values is used by the Circuit Switched Trunk feature. Circuit Switched Trunk is a secured feature and must be purchased by the office before data may be built for it. The ACT field for SFID 6 on the SFSYS form (5713-1 Record) must be set to "Y". For more information on this feature, see Division 2 Section 4A6.

For 5E12 and later:

When DIG ROUTING is "N", and OPER MINUS SIGNAL is entered, OPER MINUS CDI and OPER MINUS RTI must be entered.

When DIG ROUTING is "N", and OPER PLUS SIGNAL is entered, OPER PLUS CDI and OPER PLUS RTI must be entered.

When DIG ROUTING is "N", and NORMAL SIGNAL is entered, NORMAL CDI and NORMAL RTI must be entered.

When DIG ROUTING is "N", and LOCDA SIGNAL is entered, LOCDA CDI and LOCDA RTI must be entered.

When DIG ROUTING is "N", and DA SIGNAL is entered, DA CDI and DA RTI must be entered.

When DIG ROUTING is "N", and REPAIR SIGNAL is entered, REPAIR CDI and REPAIR RTI must be entered.

When DIG ROUTING is "N", and BUSOFC SIGNAL is entered, BUSOFC CDI and BUSOFC RTI must be entered.

When DIG ROUTING is "N", and LOCDA CONV DN is entered, LOCDA CDI and LOCDA RTI must be entered.

When DIG ROUTING is "N", and DA CONV DN is entered, DA CDI and DA RTI must be entered.

When DIG ROUTING is "N", and REPAIR CONV DN is entered, REPAIR CDI and REPAIR RTI must be entered.

When DIG ROUTING is "N", and BUS OFC CONV DN is entered, BUS OFC CDI and BUS OFC RTI must be entered.

2.8 LEC SERVICE

Description: Are OSPS TA Operator Services being provided for this carrier? If these services are not being provided, or if the switch does not contain an OSPS TA application, enter "N".

For a carrier-owned 5ESS Switch that supports an OSPS TA application, the INTRA LATA field for the switch owner should be set to "Y".

Software Release: 5E4(2) and later

Required Field for 5E8 and later.

Valid Entries: Y, N

2.9 CARRIER NAME

Description: Enter the name of the Inter-LATA carrier. The special character "&" is allowed. This entry is displayed to OSPS Toll and Assistance operators when handling a call for this carrier, and thus this field must be entered for OSPS TA offices (OSPS TA field on the OSPSOPT form is "Y").

CARRIER ID and CARRIER NAME entries must be uniquely assigned.

Software Release: 5E4(2) and later

Valid Entries: 1 - 7 alphabetic characters

2.10 SEND ANI II

Description: Should the ANI II digits associated with a screen index on the SCRIDXPA form (5543 Record) be sent on calls for this IC? This field applies only to the Flexible ANI Enhancement secured feature which is described in Division 2, Section 4A142.

Software Release: 5E9(1) and later

Default: N

Valid Entries: Y, N

Data Rules:

This field can be "Y" only if the Flexible ANI Enhancement secured feature has been purchased, and SFID 142 is set to "Y" on the SFSYS form (5713-1 Record).

If SEND ANI is "Y" and FEAT GRP is "B", ACCESS TYPE must be "TRAN" or "TTRAN".

2.11 REMARKS

Description: Enter any remarks deemed locally necessary.
Valid Entries: 1 - 16 alphanumeric characters

FEATURE GROUP B ONLY

Fields Section 2.12 -Section 2.14 refer to Feature Group B only (see Division 2, Section 1AY for a description of Feature Groups B and D).

2.12 FGB CDI

Description: Enter the Transition Code Index for calls dialed 950-XXXX to this carrier.
Valid Entries: 1 - 4095

Data Rules:

If FEAT GRP equals "B", and DIG ROUTING equals "N", there must be an FGB CDI.

2.13 FGB RTI

Description: If the Transition Code Index has an entry, enter the Transition Route Index.
Valid Entries:

- For 5E10 and earlier: 1 - 3617
- For 5E11 and 5E12: 1 - 4095
- For 5E13 and later: 1 - 16382

Data Rules:

If FEAT GRP equals "B" and DIG ROUTING equals "N", there must be an FGB CDI.

If DIG ROUTING equals "N", there must be an FGB RTI, and there must be a matching Route Index entry on the RTIDX form.

2.14 TRANS CARRIER

Description: Assign a Feature Group D Transition Carrier to a Feature Group B Carrier.

Software Release: 5E8 and later
Valid Entries: 0 - 999

Data Rules:

If FEAT GRP is "B" and ACCESS TYPE is equal to "TRAN" or "TTRAN", TRANS CARRIER is required.

If FEAT GRP is "B" and ACCESS TYPE is equal to "TRAN" or "TTRAN", TRANS CARRIER must equal the last three digits of CARRIER ID.

If FEAT GRP is "B" and ACCESS TYPE is equal to "ITRM" or "TITRM", TRANS CARRIER is not allowed.

If TRANS CARRIER is entered, there must be an entry on another ICF form with FEAT GRP equal to "D" and a CARRIER TYPE of either "CONSOL" or "IC".

SS7 OPERATOR SERVICES

The following fields (Section 2.15 - Section 2.16) supports the SS7 Using Operator Services feature. For more information see, Division 2, Section 4A603.

2.15 SS7 OP CDI

Description: This field indicates the destination index for the Interexchange Carrier that allows calls to be routed to operator services switches. The following dialing codes are supported:

1+555+XXXX

(101XXXX)+0+(NPA)+XXXX

(101XXXX)+1+(NPA)+XXXX

(101XXXX)+411 - for all lines, including restricted/special

(101XXXX)+(1/0)+411 - for all lines, including restricted/special

Software Release: 5E16 and later

Valid Entries: 1 - 4095

2.16 SS7 OP RTI

Description: This field indicates the route index for the Interexchange Carrier that allows calls to be routed to operator services switches.

1+555+XXXX

(101XXXX)+0+(NPA)+XXXX

(101XXXX)+1+(NPA)+XXXX

(101XXXX)+411 - for all lines, including restricted/special

(101XXXX)+(1/0)+411 - for all lines, including restricted/special

Software Release: 5E16 and later

Valid Entries: 1 - 16382

FEATURE GROUP D ONLY

Fields Section 2.17 - Section 2.47 refer to Feature Group D only (see Division 2, Section 1AY for a description of Feature Groups B and D).

2.17 CARRIER TYPE

Description: Enter the Carrier Type which defines the type of traffic the carrier accepts.

- **WARNING:** If CARRIER TYPE is set to "CONSOL" or "INC", then, it is expected, but not required, that all IDDD forms (5307 Record) which do not have CALL TYPE set to "QUERY" or "IDDDFCA" will have

TYPE CI CALL set to "IDDD" or "PSCAR".

Default: IC

Valid Entries:

Valid CARRIER TYPE Entries	
Entry	Definition
CONSOL	Consolidated Carrier, accepts calls within World Zone One (which includes the continental U.S.) and international traffic.
IC	Inter-LATA Carrier, accepts calls within World Zone One.
INC	International Carrier, accepts calls outside the continental U.S.
LEC	Local Exchange Carrier accepts calls within the LATA (Intra-LATA).
PSEUDO	Software Release: 5E4(2) and later Pseudo carrier in access tandem defined for number services calls - SSP (Service Switching Point) and ASP (Advanced Services Platform) calls.

Data Rules:

CONSOL:

If CARRIER TYPE is "CONSOL", then

- ACCESS TYPE may not be "950" or "T950";
- if ACCESS TYPE is "BOTH" or "TBOTH":
 - if DIG ROUTING is "N", the following fields are required
 - DOMES CDI and DOMES RTI
 - INTL CDI and INTL RTI
 - ZMINUS CDI and ZMINUS RTI
 - ZPLUS CDI and ZPLUS RTI;
 - if SERV SWITCH PT is "Y" on the OFCOPT form, then NS CDI and NS RTI are recommended for 5E6 and later;
- if ACCESS TYPE is "LTRM" or "TLTM"
 - if DIG ROUTING is "N", the following fields are required:
 - DOMES CDI and DOMES RTI
 - INTL CDI and INTL RTI
 - ZMINUS CDI and ZMINUS RTI
 - ZPLUS CDI and ZPLUS RTI

INTL OP CDI and INTL OP RTI

- if SERV SWITCH PT is "Y" on the OFCOPT form, then NS CDI and NS RTI are recommended for 5E6 and later.

IC:

If CARRIER TYPE is "IC" and:

- ACCESS TYPE is "950" or "T950", then

- the following fields must be "N"

INTRALATA

OVERLAP

SAC OVERLAP

DIG ROUTING (5E6 and later)

- the following fields are not allowed

ASP CDI and ASP RTI

ASP TF CDI and ASP TF RTI

DOMES CDI and DOMES RTI

INTL CDI and INTL RTI

INTL OP CDI and INTL OP RTI

NS CDI and NS RTI

ZMINUS CDI and ZMINUS RTI

ZPLUS CDI and ZPLUS RTI

- ACCESS TYPE is "BOTH" or "TBOTH",
 - and DIG ROUTING is "N" then the following fields are required

DOMES CDI and DOMES RTI

ZMINUS CDI and ZMINUS RTI

ZPLUS CDI and ZPLUS RTI

— the following fields are not allowed:

INTL CDI and INTL RTI

INTL OP CDI and INTL OP RTI

— if SERV SWITCH PT is "Y" on the OFCOPT form, then NS CDI and NS RTI are recommended for 5E6 and later

- ACCESS TYPE is "LTRM" or "TLTM"

— and DIGROUTING is "N" then the following fields are required:

DOMES CDI and DOMES RTI

ZMINUS CDI and ZMINUS RTI

ZPLUS CDI and ZPLUS RTI

— the following fields are not allowed:

INTL CDI and INTL RTI

INTL OP CDI and INTL OP RTI

— if SERV SWITCH PT is "Y" on the OFCOPT form, then NS CDI and NS RTI are recommended for 5E6 and later.

INC:

If CARRIER TYPE is "INC" then

- INTRA LATA must be "N"

ACCESS TYPE must be "LTRM" or "TLTM"

- if DIG ROUTING is "N" then the following fields are required:

INTL CDI and INTL RTI

ZMINUS CDI and ZMINUS RTI

INTL OP CDI and INTL OP RTI

- the following fields are not allowed:

ASP CDI and ASP RTI

ASP TF CDI and ASP TF RTI

DOMES CDI and DOMES RTI

NS CDI and NS RTI

ZPLUS CDI and ZPLUS RTI

LEC:

If CARRIER TYPE is "LEC" then

- INTRA LATA must be "Y"
 - ACCESS TYPE must be "LTRM" or "TLTM"
 - OVERLAP must be "N"
 - SAC OVERLAP must be "N"
 - SCD SCRNING must be "N"
 - DIG ROUTING must be "N" (5E4(2) and later)
 - OFC OBL INH must be "N"
 - OFC ONA INH must be "N"
 - SS7 OP CDI and SS7 OP RTI must not be entered.
- If SERV SWITCH PT on the OFCOPT form is "N", NS CDI and NS RTI must be blank.

- the following fields are not allowed:

DOMES CDI and DOMES RTI

INTL CDI and INTL RTI

INTL OP CDI and INTL OP RTI

ZMINUS CDI and ZMINUS RTI

ZPLUS CDI and ZPLUS RTI

PSEUDO:

If CARRIER TYPE is "PSEUDO" then

- ACCESS TYPE must be "BOTH"

ACCESS TYPE must be "TLTM" or "LTRM"

INTRA LATA must be "Y"

OVERLAP must be "N"

SAC OVERLAP must be "N"

CI CUT must be "N"

ZPLUS OPT must be "N"

ZMINUS OPT must be "N"

OFC OBL INH must be "N"

OFC ONA INH must be "N"

- the following fields are not allowed:

DOMES CDI and DOMES RTI

INTL CDI and INTL RTI

INTL OP CDI and INTL OP RTI ZMINUS CDI and ZMINUS RTI

ZPLUS CDI and ZPLUS RTI

- If SERV SWITCH PT on the OFCOPT form is "N", NS CDI and NS RTI must be blank.
- the corresponding CARRIER ID (for 5E8 and later, with FEAT GRP equals "D") may not be used as a CARRIER ID on any CDIM forms having FEAT GRP equals "D" in 5E8 and later.
- if DIG ROUTING is "Y", this combination of values is used by the Circuit Switched Trunk feature. Circuit Switched Trunk is a secured feature and must therefore be purchased by the office before data may be built for it. SFID 6 on the SFSYS form is reserved for Circuit Switched Trunk and must have ACT set to "Y".
- For 5E12 and later, when any of the PLC fields are entered, CARR TP must be "IC" or "CONSOL".

2.18 INTRA LATA

Description: Is the carrier allowed and will the carrier accept intra-LATA calls? For a carrier-owned 5ESS Switch that supports an OSPS TA application, the INTRA LATA field for the switch owner should be set to "Y" if the switch owner has been tarified to carry operator assisted, automated coin, and automated calling card intra-LATA traffic in a nonemergency. If this is not allowed, this field should be set to "N".

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

INTRA LATA must be "N" if CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950", or if CARRIER TYPE is "INC".

INTRA LATA must be "Y" if CARRIER TYPE is "LEC" or "PSEUDO".

2.19 CI CUT

Description: Will the carrier accept cut-through calls (i.e., calls that are dialed (FGD CAC) + (#))?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, ACCESS TYPE must not be "950" or "T950".

If CUT IND is "Y" and DIG ROUTING is "N", then CUT CDI and CUT RTI must be entered.

2.20 OVERLAP

Description: Does the carrier use overlap outpulsing on at least one of its non-SAC (Service Access Code)

routes? (Overlap outpulsing for each specific route is indicated on the 5303 Record - RTIDX form.) Enter "N" if the carrier does not use overlap outpulsing on any of its non-SAC routes.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CARRIER ACCESS is "LEC" or "PSEUDO", this entry must be "N".

OVERLAP must be "N" if CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

2.21 SAC OVERLAP

Description: Does the carrier use overlap outpulsing on SAC calls?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CARRIER TYPE is "LEC" or "PSEUDO", this entry must be "N".

SAC OVERLAP must be "N" if CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

2.22 CAC SCRNING

Description: Does the carrier want traditional call processing and screening (which blocks non-free calls) done on calls from Charge-A-Call lines? Enter "N" if the carrier does not want traditional screening. If the entry is "N", then all calls (even calls with prefix dialing errors) will complete to the carrier when originated from a line with CLASS OF SERVICE equal to "CHGCALL" (as defined on the LCC form). Line Screening will never be set to "Y" when CAC SCRNING equals "N".

Required Field.

Default: N

Valid Entries: Y, N

2.23 SCD SCRNING

Description: Does the carrier have the SCD (Selective Carrier Denial) feature? The SCD feature provides a carrier with the ability to selectively inhibit certain calls from lines that have been designated as non-paying subscribers by the carrier itself.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Only 31 carriers can subscribe to the operating company's SCD service at one time, therefore, no more than 31 CARRIER IDs on the ICF form can have SCD SCRNING set to "Y" (for 5E8 and later, FEAT GRP must

equal "D").

If "Y" is entered in this field, then "SCD" must be entered in the FIXED ROUTE TYPE field on the FIXRT form (5301 Record).

Enter "N" in the SCD SCRNING field on this ICF form if "LEC" has been entered in the CARRIER TYPE field.

2.24 SENT PAID OVLAP

Description: Does carrier allow overlap outpulsing for sent paid coin calls?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When SENT PAID OVLAP is "Y", OVERLAP must be "Y".

2.25 AC ICLATA OVR

Description: Should the Deny Toll Auto Callback on ICLATA feature be overridden for this CARRIER ID? This field supports the Deny Auto Callback on Intra-LATA PIC calls Special Feature, for more information on this feature see Division 2, Section 4A201.

Software Release: 5E10 and later

Default: N

Valid Entries: Y, N

2.26 ICLATA OPT

Description: Does the Local Exchange Carrier or the FGD carrier handle 0+ intra-LATA toll and 0- calls? Enter "Y" for Local Exchange Carrier or "N" for FGD carrier. This field supports the ICLATA (Intra-LATA PIC Capability) Special Feature, for more information on this feature see Division 2, Section 4A149.

Software Release: 5E9(1) and 5E9(2)

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field supports the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office, therefore the ACT field for SFID 149 must be set to "Y" on the SFSYS form (5713-1 Record) before this field can be set to "Y".

2.27 ZPLUS OPT

Description: Are 0+ Intra-LATA toll calls handled by the local exchange carrier? Enter "Y" or "N" for FGD carrier. This field supports the Intra-LATA PIC Capability Special Feature. For more information on this feature see Division 2, Section 4A149.

Software Release: 5E10 and later

Required Field.

Valid Entries: Y, N

Data Rules:

When FEAT GRP is "B", ZPLUS OPT must be "N".

When CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950", ZPLUS OPT must be "N".

When CARRIER TYPE is "INC", ZPLUS OPT must be "N".

When CARRIER TYPE is "PSEUDO", ZPLUS OPT must be "N".

The ZPLUS OPT and ZMINUS OPT fields on the ICF form are used by the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office before the fields can be set to "Y".

2.28 ZMINUS OPT

Description: Are 0- calls handled by local exchange carrier? Enter "Y" or "N" for FGD carrier. This field supports the Intra-LATA PIC Capability Special Feature. For more information on this feature see Division 2, Section 4A149.

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When FEAT GRP is "B", ZMINUS OPT must be "N".

When CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950", ZMINUS OPT must be "N".

When CARRIER TYPE is "INC", ZMINUS OPT must be "N".

When CARRIER TYPE is "PSEUDO", ZMINUS OPT must be "N".

The ZPLUS OPT and ZMINUS OPT fields on the ICF form are used by the Inter-LATA Carrier's Intra-LATA Capability Special Feature. It is a secured feature that must be purchased by the office before the fields can be set to "Y".

2.29 ASP TRIG NBR

Description: The ASP TRIG NBR is an active 0.1 ASP trigger number assigned to the carrier. For incoming calls, if the switch is using Carrier Routing to determine how to route the call, this field will be checked. If this field is present, the switch generates an OHD query for the call and standard ASP call processing is used. This field supports the Carrier Routing / Call Processing by Facility Presence Special Feature. For more information on this feature see Division 2, Section 4A243.

Software Release: 5E11 and later

Valid Entries: 1 - 255

Data Rules:

The ASP TRIG NBR on the ICF form must be defined on the NSTRIG form where AIN REL is "R0D1".

Carrier Routing/Call Processing by Facility Presence is a secured feature that must be purchased by the office before ASP TRIG NBR on the ICF form can be entered. A SFSYS form must exist with SFID 243 ACT set to "Y".

2.30 DOMES CDI

Description: Enter the Domestic Code Index used for calls dialed (FGD CAC) + (1) + 7/10 digits for this carrier.

Valid Entries: 1 - 4095

Data Rules:

DOMES CDI must be entered if:

- CARRIER TYPE is "IC", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".
- If CARRIER TYPE is "CONSOL", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

DOMES CDI is not allowed when CARRIER TYPE is "INC", "IC" "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

2.31 DOMES RTI

Description: If the Domestic Code Index has an entry, enter the Domestic Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

DOMES RTI must be entered if:

- CARRIER TYPE is "IC", and ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".
- CARRIER TYPE is "CONSOL", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

DOMES RTI is not allowed when CARRIER TYPE is "INC", "IC" "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

If DOMES RTI is entered, it must also be entered on the RTIDX form.

2.32 INTL CDI

Description: Enter the International Code Index for calls dialed (FGD CAC) + 011 + Country Code + variable

digits or dialed (FGD CAC) + (1) + 7/10 digits for destinations within World Zone 1, but outside the continental U.S.

In the case of an inter-LATA carrier-owned switch that supports the OSPS TA (Toll and Assistance) feature, the ICF form provides a possible new Code and Route Index for international calls (coming from the INTL CDI and INTL RTI fields, respectively). If the call is being routed out of an RSM, the RSMCAR form (5421 Record) is used to provide RSM-specific data.

Valid Entries: 1 - 4095

Data Rules:

INTL CDI must be entered if:

- CARRIER TYPE is "INC" and DIG ROUTING is "N".
- CARRIER TYPE is "CONSOL", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N."

INTL CDI is not allowed when CARRIER TYPE is "IC", "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

2.33 INTL RTI

Description: If the International Code Index has an entry, enter the International Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

INTL RTI must be entered if:

- CARRIER TYPE is "INC" and DIG ROUTING is "N".
- CARRIER TYPE is "CONSOL", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

INTL RTI is not allowed when CARRIER TYPE is "IC", "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

If INTL RTI is entered, then the route index must also be entered on an RTIDX form.

2.34 ZMINUS CDI

Description: Enter the Zero Minus Code Index for this carrier. This is the code index used for 10XXX+0 calls to this carrier. This includes 10XXX+0 calls to a carrier with CARRIER TYPE equal to "INC". Y" for the originator of the call, the digit analysis code index, initially defined by ODA as Code Index 1 for 10X0 and 00 in PDIT (5300-2 Record) and 0 PREFIX entry in the RAR form, will be used.

Valid Entries: 1 - 4095

Data Rules:

ZMINUS CDI is not allowed when CARRIER TYPE is "LEC" or "PSEUDO", or when CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

ZMINUS CDI must be entered if:

- CARRIER TYPE is "IC" or "CONSOL" and ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".
- CARRIER TYPE is "INC" and DIG ROUTING is "N".

2.35 ZMINUS RTI

Description: If the Zero Minus Code Index has an entry, enter the Zero Minus Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

ZMINUS RTI is not allowed when CARRIER TYPE is "LEC" or "PSEUDO", or when CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

ZMINUS RTI is required when:

- CARRIER TYPE is "IC" or "CONSOL" and ACCESS TYPE is "BOTH", "TBOTH", "LTRM", or "TLTM", and DIG ROUTING is "N".
- CARRIER TYPE is "INC" and DIG ROUTING is "N".

If ZMINUS RTI is entered, then the route index must also be entered on an RTIDX form.

2.36 CI CUT CDI

Description: Enter the Cut Through Code Index for calls dialed (FGD CAC) + #.

Valid Entries: 1 - 4095

Data Rules:

CUT CDI must be entered if "Y" is entered in the CUT IND field and "N" is entered in the DIG ROUTING field.

If "N" is entered in the CUT IND field, then the CUT CDI field must be left blank.

2.37 CI CUT RTI

Description: If the Cut Through Code Index has an entry, enter the Cut Through Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

The Route Index entered may not be defined for a Trunk Group with a Trunk Class of "TSPS".

CUT RTI must be entered if "Y" is entered in the CUT IND field and "N" is entered in the DIG ROUTING field.

If "N" is entered in the CUT IND field, then the CUT CDI and CUT RTI fields must be left blank.

If CUT RTI is entered, then the route index must also be entered on an RTIDX form.

2.38 ZPLUS CDI

Description: Enter the Zero Plus Code Index for calls dialed (FGD CAC) + 0 + 7/10 digits to this carrier.

Valid Entries: 1 - 4095

Data Rules:

ZPLUS CDI is not allowed when CARRIER TYPE is "INC", "LEC" or "PSEUDO", or when CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

ZPLUS CDI must be entered if, CARRIER TYPE is "IC" or "CONSOL" and ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

2.39 ZPLUS RTI

Description: If the Zero Plus Code Index has an entry, enter the Zero Plus Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

ZPLUS RTI is not allowed when CARRIER TYPE is "INC", "LEC" or "PSEUDO", or when CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".

ZPLUS RTI must be entered if CARRIER TYPE is "IC" or "CONSOL" and ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

If ZPLUS RTI is entered, then the route index must also be entered on an RTIDX form.

2.40 INTL OP CDI

Description: Enter the International Operator Code Index for calls dialed (FGD CAC) + 01 + Country Code + variable digits or dialed (FGD CAC) + 0 + 7/10 digits where the destination is within World Zone 1, but outside the continental U.S.

Valid Entries: 1 - 4095

Data Rules:

INTL OP CDI must be entered if:

- CARRIER TYPE is "INC" and DIG ROUTING is "N".
- CARRIER TYPE is "CONSOL", ACCESS TYPE is "LTRM", "TLTM", "BOTH" or "TBOTH" and DIG ROUTING is "N".

INTL OP CDI is not allowed when CARRIER TYPE is "IC", "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

2.41 INTL OP RTI

Description: If the International Operator Code Index has an entry, enter the International Operator Route Index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

INTL OP RTI must be entered if:

- CARRIER TYPE is "INC" and DIG ROUTING is "N".
- CARRIER TYPE is "CONSOL", ACCESS TYPE is "BOTH", "TBOTH", "LTRM" or "TLTM", and DIG ROUTING is "N".

INTL OP RTI is not allowed when CARRIER TYPE is "IC", "LEC" or "PSEUDO", and ACCESS TYPE is "950" or "T950".

If INTL OP RTI is entered, then the route index must also be entered on an RTIDX form.

2.42 NS CDI

Description: Enter the code index for number service 800 calls.

Software Release: 5E4(2) and later

Valid Entries: 1 - 4095

2.43 NS RTI

Description: Enter the route index for number service 800 calls.

The value of "REGL" can only be entered when the CARRIER TYPE is "LEC" or "PSEUDO" and is used to indicate that the ROUTE INDEX entered on the LDIT/MLDIT form (5300-3/5 Record) should be used. The value of "REGL" was added to the NS RTI field so that if both the NS CDI and NS RTI fields are entered, then only the CODE INDEX on the LDIT/MLDIT form will be overridden with the value entered in the NS CDI field and the value in the ROUTE INDEX field on the LDIT/MLDIT form will be used. For Recent Change view 10.3, "REGL" cannot be entered; Recent Change requires that this field be left blank to indicate the ROUTE INDEX entered on the 9.3 view should be used.

Software Release: 5E4(2) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617 and REGL

For 5E11 and 5E12: 1 - 4095 and REGL

For 5E13 and later: 1 - 16382

Data Rules:

When NS RTI is set to "REGL", CARRIER TYPE must be "PSEUDO" or "LEC".

If NS RTI is set to a value other than "REGL", (and for 5E8 and later, FEAT GRP equals "D"), the route index must be entered on the RTIDX form.

2.44 ASP CDI

Description: Enter the code index for ASP (Advanced Services Platform) In an SSP (Service Switching Point), this field is used for the routing of ASP OUTWATS calls and SCP-returned public routes.

Software Release: 5E8 and later

Valid Entries: 1 - 4095

Data Rules:

This field cannot be entered if:

- CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".
- CARRIER TYPE is "INC".
- ASP OFC on the OFCOPT form (5509 Record) is set to "NONE", indicating that this office does not support ASP.

2.45 ASP RTI

Description: Enter the route index for ASP (Advanced Services Platform). In an SSP (Service Switching Point), this field is used for the routing of ASP OUTWATS calls and SCP-returned public routes.

Software Release: 5E8 and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

This field cannot be entered if:

- CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".
- CARRIER TYPE is "INC".

ASP OFC on the OFCOPT form (5509 Record) is set to "NONE", indicating that this office does not support ASP.

If this field is entered, then the route index must be defined on an RTIDX form.

2.46 ASP TF CDI

Description: Enter the ASP (Advanced Services Platform) Toll-free destination index for toll-free calls. In an SSP (Service Switching Point) the ASP TF CDI is used for the routing and charging of ASP (Advanced Services Platform) OUTWATS calls and SCP (Service Control Point) returned public routes if the current trigger is designated as an ASP Toll-free trigger. This field supports the ASP Toll Free Service feature (SFID 236). For more information on this feature, see Division 2, Section 4A236.

Software Release: 5E10 and later

Valid Entries: 1 - 4095

Data Rules:

ASP TF CDI must not be entered if:

- CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".
- CARRIER TYPE is "INC".
- ASP OFC on the OFCOPT form (5509 Record) is set to "NONE", indicating that this office does not support ASP.

2.47 ASP TF RTI

Description: Enter the ASP (Advanced Services Platform) Toll-free route index for toll-free calls. In a SSP (Service Switching Point), the ASP TF RTI is used for the routing of ASP OUTWATS calls and SCP returned public routes if the current trigger is designated as an ASP Toll-free trigger. This field supports the ASP Toll Free Service feature (SFID 236). For more information on this feature, see Division 2, Section 4A236.

Software Release: 5E10 and later

Valid Entries:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

ASP TF RTI must not be entered if:

- CARRIER TYPE is "IC" and ACCESS TYPE is "950" or "T950".
- CARRIER TYPE is "INC".
- ASP OFC on the OFCOPT form (5509 Record) is set to "NONE", indicating that this office does not support ASP.

When the ASP TF RTI(s) has been assigned on an ICF form, it must be defined as a ROUTE INDEX on a RTIDX form.

2.48 OFC OBL INH

Description: Is the ASP originating busy trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 212 ACT filed on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

2.49 OFC ONA INH

Description: Is the ASP originating no answer trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 212 ACT filed on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

PRESUB LOCAL CARRIER (0-)

The PRESUB LOCAL CARRIER fields are used by the Alternate Local Service Provider feature. This is a secured feature that must be purchased before these fields can be entered. The SFID ACT field for SFID 269 on the SFSYS form (5713-1 Record) must be set to "Y" before these fields can be entered.

2.50 OPER MINUS CDI

Description: Enter the Zero Minus Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either OPER MINUS CDI or OPER MINUS RTI is entered, they must both be entered.

2.51 OPER MINUS RTI

Description: Enter the Zero Minus Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either OPER MINUS CDI or OPER MINUS RTI is entered, they must both be entered.

2.52 OPER MINUS SIGNAL

Description: Enter the Zero Minus Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

PRESUB LOCAL CARRIER (0+)

2.53 OPER PLUS CDI

Description: Enter the Zero Plus Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either OPER PLUS CDI or OPER PLUS RTI is entered, they must both be entered.

2.54 OPER PLUS RTI

Description: Enter the Zero Plus Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either OPER PLUS CDI or OPER PLUS RTI is entered, they must both be entered.

2.55 OPER PLUS SIGNAL

Description: Enter the Zero Plus Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

PRESUB LOCAL CARRIER (NONE+/1+)

2.56 INTRASWITCH

Description: Does the Presubscribed Local Carrier route None+/1+ 7/10-digit non-operator assisted intraswitch calls?

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If INTRASWITCH is "Y", then NORMAL CDI, NORMAL RTI, or NORMAL SIGNAL must be entered.

2.57 NORMAL CDI

Description: Enter the Normal Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either NORMAL CDI or NORMAL RTI is entered, they must both be entered.

2.58 NORMAL RTI

Description: Enter the Normal Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either NORMAL CDI or NORMAL RTI is entered, they must both be entered.

2.59 NORMAL SIGNAL

Description: Enter the Normal Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

PRESUB LOCAL CARRIER (LOCDA)

2.60 LOCDA CDI

Description: Enter the Local Directory Assistance Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either LOCDA CDI or LOCDA RTI is entered, they must both be entered.

2.61 LOCDA RTI

Description: Enter the Local Directory Assistance Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either LOCDA CDI or LOCDA RTI is entered, they must both be entered.

2.62 LOCDA SIGNAL

Description: Enter the Local Directory Assistance Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

2.63 LOCDA CONV DN

Description: Enter the Local Directory Assistance Conversion Telephone Number for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter up to 15 digits (0-9)

PRESUB LOCAL CARRIER (DA)

2.64 DA CDI

Description: Enter the Directory Assistance Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either DA CDI or DA RTI is entered, they must both be entered.

2.65 DA RTI

Description: Enter the Local Directory Assistance Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either DA CDI or DA RTI is entered, they must both be entered.

2.66 DA SIGNAL

Description: Enter the Local Directory Assistance Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

2.67 DA CONV DN

Description: Enter the Local Directory Assistance Conversion Telephone Number for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter up to 15 digits (0-9)

PRESUB LOCAL CARRIER (REPAIR)

2.68 REPAIR CDI

Description: Enter the Repair Service Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either REPAIR CDI or REPAIR RTI is entered, they must both be entered.

2.69 REPAIR RTI

Description: Enter the Repair Service Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either REPAIR CDI or REPAIR RTI is entered, they must both be entered.

2.70 REPAIR SIGNAL

Description: Enter the Repair Service Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

2.71 REPAIR CONV DN

Description: Enter the Repair Service Conversion Telephone Number for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter up to 15 digits (0-9)

PRESUB LOCAL CARRIER (BUSOFC)

2.72 BUSOFC CDI

Description: Enter the Business Office Code Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or 1 - 4095

Data Rules:

When either BUSOFC CDI or BUSOFC RTI is entered, they must both be entered.

2.73 BUSOFC RTI

Description: Enter the Business Office Route Index for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries:

For 5E12: Blank or 1 - 4095

For 5E13 and later: Blank or 1 - 16382

Data Rules:

When either BUSOFC CDI or BUSOFC RTI is entered, they must both be entered.

2.74 BUSOFC SIGNAL

Description: Enter the Business Office Signal Type for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter ST or STP

2.75 BUSOFC CONV DN

Description: Enter the Business Office Conversion Telephone Number for a Presubscribed Local Carrier.

Software Release: 5E12 and later

Valid Entries: Blank or enter up to 15 digits (0-9)

TANDEM CUT

2.76 TANDEM CUT

Description: The TANDEM CUT field indicates whether the FGD Cut-through call is a Feature Group D Tandem Cut-through call. A Cut-through call is a call that is switched to the carrier without first collecting digits for the call.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When TANDEM CUT is "Y", CIACCTP must not be "950" or "T950".

When TANDEM CUT is "N", then TANDEM CUT CDI and TANDEM CUT RTI must not be entered.

When CARRTP is "IC" and CIACCTP is "950" or "T950", then TANDEM CUT must be "N".

When TANDEM CUT is "Y", ACT fields for SFIDs 512 and 165 must be set to "Y" on the SFSYS form.

2.77 TANDEM CUT CDI

Description: TANDEM CUT CDI is the code destination index used for the FGD Tandem Cut-through call.

Software Release: 5E13 and later

Valid Entries: Blank or 1 - 4095.

Data Rules:

When CARRTP is "PSEUDO", then TANDEM CUT CDI and TANDEM CUT RTI must not be entered.

2.78 TANDEM CUT RTI

Description: TANDEM CUT RTI is the route index used for the FGD Tandem Cut-through call.

Software Release: 5E13 and later

Valid Entries: Blank or 1 - 16382

Data Rules:

When TANDEM CUT is "Y" and DIGROUTING is "N", TANDEM CUT CDI and TANDEM CUT RTI must be entered.

When TANDEM CUT RTI has been assigned, the same ROUTE INDEX must be defined on the RTIDX form.

ANI II SUBSCRIPTION

2.79 TOLLFREE II

Description: Do the Original II digits map to the Tollfree II digits? The TOLLFREE II field indicates if the original II digits shall be mapped to the Tollfree II digits (refer to RC View 8.74). This will enable carriers to compensate pay phone owners for Tollfree calls (translated to a POTS number) originated from pay phones.

Software Release: 5E11 and later

Default: N

Valid Entries: Y, N

Data Rules:

When TOLLFREE II is "Y", the ACT field for SFID 332 on the SFSYS form must be set to "Y".

When Feature Group is "B", Feature Group "D" field must be entered.

■ **NOTE:** The Pay Phone Compensation for Tollfree Calls and Tollfree Calling Enhancement for Flexible ANI features are secured features (both under SFID 332) that must be set to "Y" before the TFANI form can be populated.

2.80 DEFAULT II

Description: Are the Original II digits mapped to the Default II digits? For non-translated Tollfree calls, the DEFAULT II field indicates if the original II digits shall be mapped to the Default II digits (refer to RC View 8.74).

Software Release: 5E11 and later

Default: N

Valid Entries: Y, N

Data Rules:

When TOLLFREE II is "Y", the ACT field for SFID 332 on the SFSYS form must be set to "Y".

When Feature Group is "B", Feature Group D field must be entered.

■ **NOTE:** The Pay Phone Compensation for Tollfree Calls and Tollfree Calling Enhancement for Flexible ANI features are secured features (both under SFID 332) that must be set to "Y" before the TFANI form can be populated.

2.81 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the carrier data is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.82 EONTF TRIG NBR

Description: Proprietary field.

2.83 ESC SA TRIG

Description: Proprietary field.

CRITICAL DATA INDICATOR

The following (fields Section 2.84 - Section 2.85) support the RC Translations Protection For Highly Critical Elements feature, see Division 2, Section 1BY for more information.

2.84 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the carrier data is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.85 CRIT RMK

Description: This field enhances the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT RMK field is used to enter a remark to explain why this carrier data is critical.

Software Release: 5E15 and later

Valid Entries: Enter up to 32 characters

Data Rules:

When the ICF form has the CRIT RMK field entered, the SFSYS form SFID 566 ACT field must be set to "Y".

icf	5ESS Switch
SCREEN 1 OF 5	OFFICE DATA ADMINISTRATION
(5305)	CARRIER ADMINISTRATION
*1. CARRIER ID _____	FEATURE GROUP B ONLY
*2. FEAT GRP _____	11. FGB CDI _____
#3. ACCESS TYPE _____	12. FGB RTI _____
4. LONG REC N	13. TRANS CARRIER _____
5. MEASUREMENT N	
6. DIG ROUTING N	
7. LEC SERVICE N	
8. CARRIER NAME _____	
9. SEND ANI II N	
10. REMARKS _____	

icf 5ESS Switch
SCREEN 2 OF 5 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

14. CARRIER TYPE	_____	25. ASP TRIG NBR	_____	36. INTL OP CDI	_____
15. INTRA LATA	N	26. DOMES CDI	_____	37. INTL OPT RTI	_____
16. CI CUT	N	27. DOMES RTI	_____	38. NS CDI	_____
17. OVERLAP	N	28. INTL CDI	_____	39. NS RTI	_____
18. SAC OVERLAP	N	29. INTL RTI	_____	40. ASP CDI	_____
19. CAC SCRNING	N	30. ZMINUS CDI	_____	41. ASP RTI	_____
20. SCD SCRNING	N	31. ZMINUS RTI	_____	42. ASP TF CDI	_____
21. SENT PAID OVLAP	N	32. CI CUT CDI	_____	43. ASP TF RTI	_____
22. AC ICLATA OVR	N	33. CI CUT RTI	_____	44. OFC OBL INH	N
23. ZPLUS OPT	N	34. ZPLUS CDI	_____	45. OFC ONA INH	N
24. ZMINUS OPT	N	35. ZPLUS RTI	_____		

icf 5ESS Switch
SCREEN 3 OF 5 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

PRESUB LOCAL CARRIER (0-)		PRESUB LOCAL CARRIER (NONE+/1+)	
46. OPER MINUS CDI	_____	52. INTRASWITCH	N
47. OPER MINUS RTI	_____	53. NORMAL CDI	_____
48. OPER MINUS SIGNAL	_____	54. NORMAL RTI	_____
		55. NORMAL SIGNAL	_____
PRESUB LOCAL CARRIER (0+)		PRESUB LOCAL CARRIER (LOCDA)	
49. OPER PLUS CDI	_____	56. LOCDA CDI	_____
50. OPER PLUS RTI	_____	57. LOCDA RTI	_____
51. OPER PLUS SIGNAL	_____	58. LOCDA SIGNAL	_____
		59. LOCDA CONV DN	_____

icf 5ESS Switch
SCREEN 4 OF 5 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

PRESUB LOCAL CARRIER (DA)		PRESUB LOCAL CARRIER (BUSOFC)	
60. DA CDI	_____	68. BUSOFC CDI	_____
61. DA RTI	_____	69. BUSOFC RTI	_____
62. DA SIGNAL	_____	70. BUSOFC SIGNAL	_____
63. DA CONV DN	_____	71. BUSOFC CONV DN	_____
PRESUB LOCAL CARRIER (REPAIR)			
64. REPAIR CDI	_____		
65. REPAIR RTI	_____		
66. REPAIR SIGNAL	_____		
67. REPAIR CONV DN	_____		

```

icf                                5ESS Switch
SCREEN 5 OF 5                      OFFICE DATA ADMINISTRATION
(5305)                            CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

```

```

TANDEM CUT
72. TANDEM CUT      N
73. TANDEM CUT CDI  _____
74. TANDEM CUT RTI  _____

```

```

ANI II SUBSCRIPTION
75. TOLLFREE II N
76. DEFAULT II  N

```

```

77. CRIT IND N

```

Figure 1 SAMPLE ICF FORM 5E13 THROUGH 5E14 SOFTWARE RELEASES

```

icf                                5ESS Switch
SCREEN 1 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                            CARRIER ADMINISTRATION

*1. CARRIER ID  _____      FEATURE GROUP B ONLY
*2. FEAT GRP    _                11. FGB CDI      _____
#3. ACCESS TYPE _____      12. FGB RTI      _____
4. LONG REC     N                13. TRANS CARRIER _____
5. MEASUREMENT  N
6. DIG ROUTING  N
7. LEC SERVICE  N
8. CARRIER NAME _____
9. SEND ANI II  N
10. REMARKS     _____

```

```

icf                                5ESS Switch
SCREEN 2 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                            CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

14. CARRIER TYPE _____      25. ASP TRIG NBR _____      36. INTL OP CDI _____
15. INTRA LATA    N                26. DOMES CDI      _____      37. INTL OPT RTI _____
16. CI CUT        N                27. DOMES RTI      _____      38. NS CDI      _____
17. OVERLAP       N                28. INTL CDI      _____      39. NS RTI      _____
18. SAC OVERLAP   N                29. INTL RTI      _____      40. ASP CDI      _____
19. CAC SCRNING   N                30. ZMINUS CDI     _____      41. ASP RTI      _____
20. SCD SCRNING   N                31. ZMINUS RTI     _____      42. ASP TF CDI   _____
21. SENT PAID OVLAP N              32. CI CUT CDI     _____      43. ASP TF RTI   _____
22. AC ICLATA OVR N                33. CI CUT RTI     _____      44. OFC OBL INH  N
23. ZPLUS OPT     N                34. ZPLUS CDI      _____      45. OFC ONA INH  N

```

24. ZMINUS OPT N 35. ZPLUS RTI

```

icf                                5ESS Switch
SCREEN 3 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                             CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

```

PRESUB LOCAL CARRIER (0-)	PRESUB LOCAL CARRIER (NONE+/1+)
46. OPER MINUS CDI _____	52. INTRASWITCH N _____
47. OPER MINUS RTI _____	53. NORMAL CDI _____
48. OPER MINUS SIGNAL _____	54. NORMAL RTI _____
	55. NORMAL SIGNAL _____
PRESUB LOCAL CARRIER (0+)	
49. OPER PLUS CDI _____	PRESUB LOCAL CARRIER (LOCDA)
50. OPER PLUS RTI _____	56. LOCDA CDI _____
51. OPER PLUS SIGNAL _____	57. LOCDA RTI _____
	58. LOCDA SIGNAL _____
	59. LOCDA CONV DN _____

```

icf                                5ESS Switch
SCREEN 4 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                             CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

```

PRESUB LOCAL CARRIER (DA)		PRESUB LOCAL CARRIER (BUSOFC)	
60. DA CDI	_____	68. BUSOFC CDI	_____
61. DA RTI	_____	69. BUSOFC RTI	_____
62. DA SIGNAL	_____	70. BUSOFC SIGNAL	_____
63. DA CONV DN	_____	71. BUSOFC CONV DN	_____

PRESUB LOCAL CARRIER (REPAIR)

64. REPAIR CDI _____

65. REPAIR RTI _____

66. REPAIR SIGNAL _____

67. REPAIR CONV DN _____

```

icf                                5ESS Switch
SCREEN 5 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                            CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

```

	TANDEM CUT	
72.	TANDEM CUT	N
73.	TANDEM CUT	CDI _____
74.	TANDEM CUT	RTI

```

      ANI II SUBSCRIPTION
75.  TOLLFREE II      N
76.  DEFAULT II      N

```

77. EONTF TRIG NBR ____
 78. ESC SA TRIG N

icf 5ESS Switch _
 SCREEN 6 OF 6 OFFICE DATA ADMINISTRATION
 (5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

CRITICAL DATA INDICATOR

79. CRIT IND N
 80. CRIT RMK _____

Figure 2 SAMPLE ICF FORM 5E15 SOFTWARE RELEASE

icf 5ESS Switch
 SCREEN 1 OF 6 OFFICE DATA ADMINISTRATION
 (5305) CARRIER ADMINISTRATION

*1. CARRIER ID ____	FEATURE GROUP B ONLY
*2. FEAT GRP _	11. FGB CDI ____
#3. ACCESS TYPE ____	12. FGB RTI ____
4. LONG REC N	13. TRANS CARRIER ____
5. MEASUREMENT N	
6. DIG ROUTING N	SS7 OPERATOR SERVICES
7. LEC SERVICE N	14. SS7 OP CDI ____
8. CARRIER NAME ____	15. SS7 OP RTI ____
9. SEND ANI II N	
10. REMARKS _____	

icf 5ESS Switch
 SCREEN 2 OF 6 OFFICE DATA ADMINISTRATION
 (5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

16. CARRIER TYPE ____	27. ASP TRIG NBR ____	38. INTL OP CDI ____
17. INTRA LATA N	28. DOMES CDI ____	39. INTL OPT RTI ____
18. CI CUT N	29. DOMES RTI ____	40. NS CDI ____
19. OVERLAP N	30. INTL CDI ____	41. NS RTI ____
20. SAC OVERLAP N	31. INTL RTI ____	42. ASP CDI ____
21. CAC SCRNING N	32. ZMINUS CDI ____	43. ASP RTI ____
22. SCD SCRNING N	33. ZMINUS RTI ____	44. ASP TF CDI ____
23. SENT PAID OVLAP N	34. CI CUT CDI ____	45. ASP TF RTI ____
24. AC ICLATA OVR N	35. CI CUT RTI ____	46. OFC OBL INH N
25. ZPLUS OPT N	36. ZPLUS CDI ____	47. OFC ONA INH N
26. ZMINUS OPT N	37. ZPLUS RTI ____	

icf 5ESS Switch
SCREEN 3 OF 6 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

PRESUB LOCAL CARRIER (0-)	PRESUB LOCAL CARRIER (NONE+/1+)
48. OPER MINUS CDI _____	54. INTRASWITCH N _____
49. OPER MINUS RTI _____	55. NORMAL CDI _____
50. OPER MINUS SIGNAL _____	56. NORMAL RTI _____
	57. NORMAL SIGNAL _____
PRESUB LOCAL CARRIER (0+)	
51. OPER PLUS CDI _____	PRESUB LOCAL CARRIER (LOCDA)
52. OPER PLUS RTI _____	58. LOCDA CDI _____
53. OPER PLUS SIGNAL _____	59. LOCDA RTI _____
	60. LOCDA SIGNAL _____
	61. LOCDA CONV DN _____

icf 5ESS Switch
SCREEN 4 OF 6 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

PRESUB LOCAL CARRIER (DA)	PRESUB LOCAL CARRIER (BUSOFC)
62. DA CDI _____	70. BUSOFC CDI _____
63. DA RTI _____	71. BUSOFC RTI _____
64. DA SIGNAL _____	72. BUSOFC SIGNAL _____
65. DA CONV DN _____	73. BUSOFC CONV DN _____
PRESUB LOCAL CARRIER (REPAIR)	
66. REPAIR CDI _____	
67. REPAIR RTI _____	
68. REPAIR SIGNAL _____	
69. REPAIR CONV DN _____	

icf 5ESS Switch
SCREEN 5 OF 6 OFFICE DATA ADMINISTRATION
(5305) CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

TANDEM CUT

74. TANDEM CUT	N
75. TANDEM CUT CDI	_____
76. TANDEM CUT RTI	_____

ANI II SUBSCRIPTION

77. TOLLFREE II	N
78. DEFAULT II	N

79. EONTF TRIG NBR _____


```
80. ESC SA TRIG      N
```

```

icf                                5ESS Switch                                —
SCREEN 6 OF 6                      OFFICE DATA ADMINISTRATION
(5305)                            CARRIER ADMINISTRATION (FEATURE GROUP D ONLY)

```

CRITICAL DATA INDICATOR

81. CRIT IND N

82. CRIT RMK _____

Figure 3 SAMPLE ICF FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 3S: 5306 RECORD LINE CLASS CODE FORM - LCC

1. GENERAL

The 5306 Record is used to define each LCC (Line Class Code) in a 5ESS Switch. A Telephone Number and a Line Equipment Number provide an LCC and Rate Area number. These two inputs are used to access routing and service information contained on this form.

Routing and feature control are described for an LCC in the CLASS OF SERVICE and TERMINATING TREATMENT entries. CLASS OF SERVICE describes originating service and feature handling, while TERMINATING TREATMENT describes terminating service and routing.

1.1 Toll Diversion

For lines requiring Toll Diversion, the service class assigned must be either "PBX" or "HOTPBX". In addition, the Toll Diversion field on the RAR form (5301 Record) must contain an entry.

1.2 Charge-A-Call

For information on the Charge-A-Call feature using a CLASS OF SERVICE of "CHGCALL", refer to Division 2, Section 1A.

1.3 Recent Change View

The corresponding Recent Change View for this form is 4.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * LINE CLASS CODE

Description: Enter the code that describes the class of service, e.g., 1FR, 1PC, DNT.

Valid Entries: 3 alphanumeric characters

2.3 * RATE AREA

Description: Enter the Rate Area center number. This field is used to identify "rate centers" that are established by tariffs for routing and charging. It is used in association with the SCREENING INDEX and the DAS (Digit Analysis Selector) fields on the LCC form (5306 Record). Note that this field is the same (functionally) as the RAX field on the NOC form (5501 Record).

Default: 00 (indicates no RATE AREA number)

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

Data Rules:

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

2.4 # CLASS OF SERVICE

Description: This field is used to describe originating service and feature handling by Class of Service.

Required Field.

Valid CLASS OF SERVICE Entries	
Entry	Definition
ATND	Attendant DN.
B911	Emergency Service Bureau lines for Basic 911 Service.
CALLBK	Software Release: 5E8 and earlier. Call Back Line associated with the Trunk and Line Work Station Local Talk and Monitor phone lines.
CHGCALL	Charge a Call. Provide ANI7 to TSPS.
COIN	Coin
DAOPER	Software Release: 5E5 and later. OSPS directory assistance operator.
HOTMOTL	Hotel-Motel with Message Register capabilities. No toll diversion; provides ANI-6 to TSPS for hotel/motel DN without automatic room ID. For 5E9(1) and later the ANI-6 can be turned off by activating Option Feature ID 628 (enter "Y" in the ACT field for FID 628 on the FOSYS form (5713-2 Record)).
HOTPBX	Hotel-Motel PBX with Message Register capabilities. Checks
HOTPBX	Hotel-Motel PBX with Message Register capabilities. Checks for Toll Diversion; provides ANI-6 to TSPS; and prevents Fabric Exercise Tests.
INDIV	Individual.
ISATND	Software Release: 5E4(2) and later. ISDN (Integrated Service Digital Network) Attendant Terminal.
ISDN	Software Release: 5E3 and later. ISDN Digital Subscriber Line.
LTPCLBCK	Software Release: 5E9(1) and later. Call Back Line associated with the Trunk and Line Work Station Local Talk and Monitor phone lines.
MISLNK	Software Release: 5E5 and later. OSPS Commercial ACD MIS data link.
MODEM	Software Release: 5E3 and later. Packet Switching Modem Pooling.
PBX	Checks for Toll Diversion; prevents Fabric Exercise Tests.
RCDM	Software Release: 5E7 and later. Recent Change Delayed Message.
SATSTLN	Stand-Alone Test Line, for RSM and Local SM use. This test line allows a switching module to emulate the stand-alone or isolation state during normal operation.
TAOPER	Software Release: 5E4(2) and later. OSPS toll and assistance operator VDT.
TEST	Test Lines.
TWOPTY	Two Party.
XAT	Software Release: 5E6 and later. X.25 access to a T1 facility.
XDB	Software Release: 5E4(2) and later. OSPS external data base.
2PTY	2-Party Multi-Frequency Ringing.
4PFS	4-Party Full Selective.
4PSS	4-Party Semi Selective.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX. Allows an entry of "D" or "T" for the OE TYPE field on the LINE form (5109 Record) and MLHLN form (5111-1 Record).
5PTY	5-Party Multi-Frequency Ringing.
8PSS	8-Party Semi Selective.

10PTY	10-Party Multi-Frequency Ringing.

Data Rules:

B911 - If the LINE/MLHLN forms have a LCC/RAX combination that appears on the LCC form with a CLASS OF SERVICE value of "B911", the following LINE/MLHLN feature must be defined:

- OE TYPE must be "A" (5E12 and later), "C", "E", "G", "L", "M" or "S",
- PTY must be "I",
- COIN must be "N",
- SUSO must be "Y",
- SUST must be "N".

CALLBK - If MLHLN form entries have an LCC/RAX combination that appears on the LCC form with a CLASS OF SERVICE value of "CALLBK", then the TN field must be numeric and must also be defined on the TLWS form as Local Talk & Monitor line. (For 5E9(1) and later see "LTPCLBCK".)

DAOPER or **TAOPER** - the LCC/RAX must match the LCC/RAX on an AMLBDSL form. These entries are permitted only for Packet Switching.

INDIV - For EDSL service, the CLASS OF SERVICE is "INDIV".

If "INDIV" is entered, TERMINATING TREATMENT must be "AGING", "ASIRA", "INDIV", "RI", "MLHG", "INWATS", or "TINWATS".

ISATND - For 5E4(2), if CLASS OF SERVICE is "ISATND", a DSMLHLN form (5901 Record) must be defined with a corresponding CKT LCC/RAX and a TERM TYPE of "ATND".

LTPCLBCK - If CLASS OF SERVICE is "LTPCLBCK":

- LINE SCREENING must be "N".
- TERMINATING TREATMENT must be "INDIV", "AGING" or "MLHG".

For 5E8 and earlier, see "CALLBK".

For 5E9(1) and later, if a TN defined on a LINE or MLHLN form has a LCC/RAX combination on the LCC form with a CLASS OF SERVICE of "LTPCLBCK", then:

- the TN must be defined on the TLWS form as LOCAL TALK & MONITOR LINE
- OE TYPE on the LINE form must be "A" (5E12 and later), "C", "E" (5E11 and later), "G", "L", "M" or "S"
- the LINE form must have the following values:

SHARED must be "N"

NO DIAL must be "N"

PTY must be "I"

TTC must be "Y"
DNY ROH must be "N"
ANI7 must be "N"
SERHLN must be blank
BUSY MONITOR must be "N"
DNY BV must be "N"
TRAFFIC must be "N"
DTLBILL must be "N"
FGA must be "N"
SLUS must be "N"
COMPL must be "N"
SUSO must be "Y"
MFRI must be "N"

- For a MLHLN, the following restrictions must hold:
 - OE TYPE on the MLHLN form must be "A" (5E12 and later), "C", "E" (5E11 or later) or "L".
 - MLHG/TERM on the MLHLN form must not be defined on the MULTITN form.
 - FEATURE GROUP A on the corresponding MLHG form must be "N".
 - The MLHLN form must have the following values:
 - COMPL must be "N"
 - DNY ROH must be "N"
 - SERHLN must be unknown
 - DNY BV must be "N"
 - DTLBILL must be "N"
 - NO DIAL must be "N"
 - SHARED must be "N"
 - SLUS must be "N"
 - SUSO must be "Y"
 - TRAFFIC must be "N"

MODEM - If CLASS OF SERVICE is "MODEM", OE TYPE on the MLHLN form must be "A", "C", "E", "L", or "S".

RCDM - For 5E7 and later, if CLASS OF SERVICE is "RCDM",

- TERMINATING TREATMENT must be "INDIV".
- LINE SCREENING must be "N".
- If TNs appear on a LINE form where the LCC and RAX are defined on an LCC form with CLASS OF SERVICE set to "RCDM", then for the LINE form:
 - the following fields must be "N":

MFRI

BRCS

EL

FGA

SUSO

DNY ROH

COMPL

SLUS

DTLBILL

TRAFFIC

ICP

DNY BV

TRC

TSTLINE

GNDREF

RANGEX

LNEQ

NO DIAL

ANI7

SHARED

PRIVACY

PVN ALW

— the following fields must be blank:

SERHLN

SLEEVE LEAD CKT

MAKE BUSY KEY

ASSOC OE TYPE/NUMBER

— the following fields must be blank or "N":

AC ALW

AR ALW

COT ALW

PCP ALW

SCR GA ALW

SCF GA ALW

SCA GA ALW

SDA GA ALW

— and:

PTY must be "I"

CIDIAL must be "DENY"

FLS must be "Y"

SUST must be "Y"

- The AMLBDSL, DSLUSR, and/or MLHLN forms cannot be assigned an LCC and RAX that are defined on an LCC form with a CLASS OF SERVICE of "RCDM". These forms do not support this CLASS OF SERVICE.
- The MASTER TN on an MTNDR form cannot be defined as a TN on a LINE form where the LCC and RAX appear on an LCC form with CLASS OF SERVICE set to "RCDM".

TAOPER or XDB - For ISDN service in OSPS, the CLASS OF SERVICE is "TAOPER" or "XDB." DSLs with a CLASS OF SERVICE of "XDB" must be configured as packet switching MLHGs. However, it is permissible for each member in the MLHG to have an individual Packet DN. DSLs with a CLASS OF SERVICE of "TAOPER" may have only the LINE CLASS CODE for Packet Switching.

TEST - if TERMINATING TREATMENT is also "TEST", all associated LINE forms with the same LCC/RAX value and ICP set to "N" must have TEST CODE entered.

If "XDB" is entered in the CLASS OF SERVICE field, an OSPSOPT form (5424 Record) must be submitted with "Y" entered in the OSPS TA field.

XAT - When an XAT form (5909 Record) is entered, the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "XAT" and a TERMINATING TREATMENT of "INDIV".

For 5E6 and later, if CLASS OF SERVICE is "XAT", then LINE SCREENING must be "N".

2.5 # TERMINATING TREATMENT

Description: This field is used to describe terminating service and routing.

Required Field.

Valid TERMINATING TREATMENT Entries	
Entry	Definition
ASIRA	Software Release 5E8 and later. Advanced Service Interface Remote Access.
AGING	Changed or disconnected TN, routed to Regular Intercept.
INDIV	Individual.

INWATS	INWATS (800 Service). For 5E4(2) and later, this value can be assigned to MLHGs, a POTS line, or a line in a series completion chain.
MLHG	Multi-Line Hunt Group.
PARTY	2, 4, 5, 8, or 10 party.
RAPVN	Software Release: 5E6 - 5E7. ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) DN Trigger. This value can only be assigned to POTS lines, i.e., to lines defined on the LINE form (5109 Record).
RI	Route Index.
TEST	Test Lines, restricted to use with telephone numbers associated with a route index.
TINWATS	Software Release: 5E4(2) and later. Terminating Trunk INWATS (800 Service).

Data Rules:

AGING - When a line or MLHG/TERM is assigned an LCC with TERMINATING TREATMENT set to "AGING", ICP must equal "Y" on the LINE or MLHLN form.

ASIRA - If an LCC/RAX combination with a TERMINATING TREATMENT of "ASIRA" is defined on a LINE form (5109 Record), then the following must be set on the LINE form:

- OE TYPE/NUMBER must not be entered
- SUST must be "N",
- DNY BV must be "Y", and
- SHARED must be "N".

If an LCC/RAX combination with a TERMINATING TREATMENT of "ASIRA" is defined on an MLHLN form (5111 Record), then the following must be set on the MLHLN form:

OE TYPE/NUMBER must not be entered,
DNY BV must be "Y", and
SHARED must be "N".

RI or **TINWATS** - all associated LINE forms with the same LCC/RAX value and ICP set to "N" must have RTI entered.

TINWATS - If an LCC/RAX combination with a TERMINATING TREATMENT of "TINWATS" is defined on a LINE form, then the OE TYPE/NUMBER field must be blank and the RTI should point to a TGN on a TKGRP form with a TRKCLS of "EDSL" or "EDSLHM" and a BILLING DN entered .

For service to EDSLs, the Terminating Treatment is "RI" or "TINWATS".

For valid CLASS OF SERVICE and TERMINATING TREATMENT combinations, see Figure 1 .

2.6 # SCREENING INDEX

Description: Enter the Screening Index to be used for routing and charging of calls. Screening Indexes are defined on the RAR form.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

It is recommended that all lines with a CLASS OF SERVICE of "4PSS", "4PFS" or "8PSS" point to a Screening Index which provides TSPS routing for all message rate and toll calls. Failure to do this may result

in billing errors.

2.7 CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) which should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.8 # LINE SCREENING

Description: Does this LCC (Line Class Code) require that the RAR form associated with the regular digit analysis forms (PDIT (5300-2 Record), LDIT (5307 Record), and IDDD (5300-3 Record)) is read first? If LINE SCREENING is "Y", the non-specific code index is used to determine if the call should be allowed before the carrier specific code index and carrier specific Route Index are used in the Rate and Route.

This field is associated with the Carrier Interconnect capability.

For additional information, see the feature section, Revised Routing and Screening for the 5E2 Software Release, in Division 2, Section G of this guide.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

LCCs defined for WATS Bands, Toll Diversion, and Code Restriction have Line Screening set to "Y".

LCCs corresponding to a dedicated line LEN, should have LINE SCREENING entered as "N".

For 5E5 and later, LINE SCREEN must be N if any of the following fields are defined:

- PPB1 LCC/RAX and/or PPB2 LCC/RAX on the DSL form
- DPKT LCC/RAX and/or ODB LCC/RAX on the DSLUSR form
- PKT LCC/RAX on the AMLBDSL form

2.9 # DIGIT ANALYSIS SELECTOR

Description: Enter the Digit Analysis Selector to be used for routing and charging of calls.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

Digit Analysis Selectors are defined on the DAS form (5300-1 Record).

2.10 INSEP

Description: Enter the Incoming (traffic) Separations class (for Division of Revenue study).

Valid Entries: 1 - 255

Data Rules:

If INSEP is assigned, DESEP must also be assigned; and both must be defined on the Traffic Separation Cell Grouping, TRFSEP form (5308 Record).

INSEP 0 is used whenever INSEP is not provided by the incoming line or trunk translations. INSEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.11 DESEP

Description: Enter the Destination (traffic) Separations class (for Division of Revenue study).

Valid Entries: 1 - 255

Data Rules:

If DESEP is assigned, INSEP must also be assigned; and both must be defined on the Traffic Separation Cell Grouping, TRFSEP form (5308 Record).

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.12 LATA

Description: Enter the Local Access and Transport Area number.

This field is used by the secured feature, TCAP Improvements for a Switch Spanning Multiple LATAs (SFID 171). This LATA field is used to specify the LATA to be used by remote RSMs (Remote Switching Modules) residing in LATAs other than the LATA defined as the office default on the OFCOPT form (5509 REcord). This LATA is used so that the host switch can differentiate which calls originate in a given LATA so as to send those calls to the appropriate LEC (Local Exchange Carrier) STP (Signaling Transfer Point, or, to populate the 800 query with the originating lines' LATA. For more information, see Division 2, Section 4A171.

Valid Entries: 100 - 999

2.13 REMARKS

Description: This field may contain any entry deemed locally necessary.

Valid Entries: 1 - 16 characters

CLASS OF SERVICE	TERMINATING TREATMENT									
	INDIV	MLHG	RI	AGIN G	INWATS	PARTY	TEST	TINWATS	RAPVN	ASIRA
2PTY				X		X				
4PSS				X		X				
4PFS				X		X				
5PTY				X		X				
8PSS				X		X				
10PTY				X		X				

4WINDIV	X	X		X	X					
ATND	X	X	X	X	X					
B911	X	X		X						
CALLBK	X	X		X						
COIN	X			X						
CHGCALL	X			X						
DAOPER	X									
HOTMOTL	X	X		X	X					
HOTPBX	X	X		X	X					
INDIV	X	X	X	X	X			X	X	X
ISATND		X			X					
ISDN	X	X		X	X					
LTPCLBK	X	X		X						
MISLNK	X									
MODEM	X			X						
PBX	X	X		X	X					
RCDM	X									
SATSTLN	X									
TEST							X			
TWOPTY				X		X				
TAOPER	X			X						
XAT	X	X								
XDR	X									

Figure 1 CLASS OF SERVICE AND TERMINATING TREATMENT COMBINATIONS

```

lcc                                5ESS Switch
(5306)                            OFFICE DATA ADMINISTRATION
                                   LINE CLASS CODE

*1. LINE CLASS CODE                TDV
*2. RATE AREA                      01
#3. CLASS OF SERVICE               PBX
#4. TERMINATING TREATMENT          INDIV
#5. SCREENING INDEX                0025
#6. LINE SCREENING                 Y
#7. DIGIT ANALYSIS SELECTOR 01
   8. INSEP                        _____
   9. DESEP                        _____
10. REMARKS                        TOLL DIVERSION

```

Figure 2 SAMPLE LCC FORM 5E2 - 5E10 SOFTWARE RELEASE

```

lcc                                5ESS Switch
(5306)                            OFFICE DATA ADMINISTRATION
                                   LINE CLASS CODE

*1. LINE CLASS CODE                _____
*2. RATE AREA                      _____
#3. CLASS OF SERVICE               _____
#4. TERMINATING TREATMENT          _____
#5. SCREENING INDEX                _____
#6. LINE SCREENING                 N

```

Figure 3 SAMPLE LCC FORM 5E11 - 5E14 SOFTWARE RELEASES

Figure 4 SAMPLE LCC FORM 5E15 THROUGH 5E16(1) AND LATER SOFTWARE RELEASES

Figure 5 SAMPLE LCC FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3T: 5307 RECORD INTERNATIONAL DIRECT DISTANCE DIALING FORM - IDDD

1. GENERAL

The 5307 Record is used for IDDD (International Direct Distance Dialing) Country Access Codes.

IDDD provides the capability for Direct Distance Dialing points outside the North American Network by the customer without the assistance of an operator. Customer routing and charging for an IDDD call in a 5ESS Switch is routed via TSPS. The TSPS office forwards the call to a Gateway Office or to an Overseas Assistance Operator based on the dialed digits. The composition of an International Number is shown in Figure 1.

IDDD calls are not required to route to TSPS if the CI (Carrier Interconnect) capability is in effect for the office. However, the intended carrier, either on a direct connection or via an Access Tandem, must utilize the INC (International Carrier) signaling protocol. See the RTIDX form (5303 Record) for additional information on signaling protocol.

1.1 International Carrier Signaling

When INC signaling is used, there are several stages of outpulsing. The first stage is KP + 1NX + XXX + CCC + ST. CCC is the 1- to 3-digit Country Code padded to three digits, if necessary, with leading zeroes. For this reason a Carrier Interconnect office must specify all valid Country Access Codes unlike the discussion which follows later.

1.2 Call Type

For 5E5 and later, TYPE CI CALL and CALL TYPE fields have been provided.

1.3 Prefix Digits

An international call is identified by the first digits dialed. If 010 is dialed, and no more digits are received, the call is destined for Overseas Operator Assistance. A station-to-station call is identified by the code 011. A person-to-person, credit card, or bill-to-third-number call is identified by the code 01. For 01 and 011 dialing, from seven to twelve additional digits are expected.

- **WARNING:** Customers may incorrectly dial 0 + the FGD CAC (Carrier Access Code), (rather than correctly dialing the FGD CAC only) to reach a vendor other than their PIC. The format 10XXX or 101XXXX is known as the FGD CAC, where XXX or XXXX is the CIC (Carrier Identification Code). The value allowed in the office depends on the value of the FGD PHASE field (5E9(1) and later) on the OFCOPT form. See the OFCOPT form and Division 2, Section 1BI for more information on the FGD CAC (On this form, CAC refers to Country Access Code (see next section; this warning is the only instance of FGD CAC). For an equal access office which does not use 010 for an IDDD operator, the route index should be the fixed route index to an announcement such as the "VACANT" code announcement.

1.4 Country Access Codes

These additional digits contain a Country Access Code and a National Number. Some countries have a uniform numbering plan while others have a variable number of digits in their numbering plan. This form makes it possible for the 5ESS Switch to identify and screen the CACs (Country Access Codes) for validity. If the CACs are valid, the 5ESS Switch must determine the acceptable number of digits for the associated

numbering plan. This is defined on the record as the minimum and maximum number of digits expected.

If it is not desired that the 5ESS Switch screen the Country Access Codes for validity, the calls may be passed to the TSPS for screening. IDDD forms must still be entered into ODA. However, only the initial digits received after the IDDD prefixes are translated and pointed to TSPS with minimum digits of 7 and maximum digits of 15. Valid initial digits are 2 through 9.

1.5 Code Index

Prefix code 010 (Overseas Operator Assistance) is assigned to Code Index 2 on a PDIT form (5300-2 Record). No IDDD form data is required for this prefix code. The 5ESS Switch owner must assign a Code Index for prefix codes 01 and 011 on the Rate and Route Record (5301 Record). For screening purposes, 01 is treated as a 0+ call, while 011 is treated as a 1+ call. Currently only one Code Index is required to translate all of the IDDD Country Access Codes.

1.6 Digit Interpretation

A station-to-station call is identified by the code 011. A person-to-person, credit card, or bill to third number call is identified by the code 01. For 01 and 011 dialing, from seven to fifteen additional digits are expected. These additional digits are defined in the minimum and maximum number of digits expected fields.

Each Country Access Code must be defined twice, once for the 01 prefix and once for the 011 prefix. The valid CACs are "merged" with the Local Digit Interpreter Table (LDIT) by ODA. Thus, it is possible to have various routing treatments for CACs since the LDIT Number will determine the IDDD call treatment.

1.7 Fully Coded Addressing

For 5E5 and later, all international outbound calls will be processed using FCA (Fully Coded Addressing). FCA is a CCS (Common Channel Signaling) single-stage protocol used to route international outbound calls in a uniform manner through the domestic network. With FCA, when an international outbound call is routed to a 5ESS Toll Switch, the 5ESS Toll Switch will collect all the dialed digits and route the call as a CCS single-stage call towards a 4EES ISC (International Switching Center).

1.8 OSPS International Outbound Calls

The IDDD form populates the two types of OSPS International Outbound digit analysis translations. The two types of international outbound OSPS calls are OSPS MF two-stage international calls, which are sent out of the OSPS using two state signaling, and the FCA (Fully Coded Addressing) calls, which may use either the two-stage MF signaling or may be routed via the CCS network. Both types of calls are covered in the data population on this form.

The LDIT field on this form must have the same entry as the LDIT field on the DAS form (5300-1 Record). The COUNTRY ACCESS CODE field on this form must be filled out for the valid Country Code.

If the LDIT field on this form is the same as the LDIT field for the non-OSPS TOLL international outbound calls, and the non-FCA two-stage feature is being used for OSPS, the TOLL feature populates the incoming digit strings on the LDIT form (5300-3/5 Record) as the PCC (Pseudo Country Code) and the OSPS feature populates the CAC (Country Access Code) on this IDDD form. The PCCs and the CACs are set up so they do not conflict with each other, therefore, they can be entered into the same LDIT using two different forms.

The FCA features always uses a DAS of 81 for both the OSPS and the TOLL. Both the OSPS and the TOLL features must have the CAC defined for DAS of 81. When both features are on the same switch, the IDDD form must be used to enter the CACs. If the OSPS feature is not present on the switch, the TOLL feature may

use the LDIT form to enter the CAC. However, if an OSPS will be grown on that switch in the future, the IDDD form should be used to enter the CACs.

For OSPS MF two-stage international calls:

- CALL TYPE field should be "IDDDTSP";
- IDDD PREFIX should be entered as 01 and 011;
- TYPE CI CALL field should be "IDDD".

For FCA calls:

- the CALL TYPE field should be "IDDDFCA";
- IDDD PREFIX should be left blank;
- TYPE CI CALL field should be "NONCI".

The MIN. NBR. DIGITS EXPECTED field should be set to the minimum number of digits that may be dialed for the COUNTRY ACCESS CODE plus the national telephone number. This numeric value is between 4 and 15 digits. The MAX. NBR. DIGITS EXPECTED field should be set to the maximum number of digits that may be dialed for the COUNTRY ACCESS CODE plus the national telephone number. This numeric value is between 7 and 15 digits.

The CODE INDEX field should be set to a value that may be an optional key to call type determination because this value is used to forward this call to the called party.

The ROUTE INDEX field is not used by call type determination, but it may be used to route the call to the forwarded party if CDIM (5300-6 Record), RSMCAR (5421 Record), ICF or RAR forms (5301 Record) do not override it.

The DESEP field is only required for Division of Revenue study. If a DESEP is entered, it must be defined on the TRFSEP form (5308 Record).

1.9 Recent Change View

The corresponding Recent Change View for IDDD is 9.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * LDIT

Description: Enter the Local Digit Interpreter Table number. The LDIT identifies all codes that are dialable. The CACs are "merged" on the LDIT by ODA.

Required Field.

Valid Entries: 1 - 999

2.3 (*) IDDD PREFIX

Description: Enter the IDDD Prefix code, 01 or 011. Any other prefix code will be considered valid but is not normally used in the North American environment. Each prefix value entered must be appropriately defined on a PDIT form with 0 digits deleted.

Valid Entries: 1 - 3 digits

2.4 * COUNTRY ACCESS CODE

Description: The Country Access Code defines the country to which the call is destined. Enter the CAC if it is desired to screen it for validity locally within the 5ESS Switch. Duplicate Country Codes within an LDIT and IDDD prefix are not permitted. The Traffic Routing Guide defines all valid Country Access Codes.

If screening is not desired, enter a digit 2 through 9 which is the range of the first digit of all valid CACs. Screening must be done at the OSPS. If this office is a Carrier Interconnect office, all Country Access Codes must be furnished.

- **WARNING:** For 5E7 and later, when CCS7 signaling is used on incoming calls destined to an IC (International Carrier), an entry on this form is required for each country code. Adding or deleting COUNTRY ACCESS CODEs to or from the IDDD form (5307 Record) requires that the COUNTRY CODEs be added or deleted to or from the PCC form (5318 Record).

Required Field.

Valid Entries: 1 - 3 digits; the first digit must be 2 - 9

2.5 (*) CITY CODE

Description: The CITY CODE field was added to support the IDDD City Code Routing Enhancement feature. This field is used to specify IDDD routing data for a specific city within a foreign country.

Software Release: 5E14 and later

Valid Entries: Blank, or 1 - 7 digits

Data Rules:

When CITY CODE is entered, then TYPE CI CALL must be "IDDD" and CALL TYPE must be "IDDDSTS" or "IDDDTSP".

When CITY CODE is entered on an IDDD form (call it IDDD1), there must also be another IDDD form (call it IDDD2) having the same keys LDIT, IDDD PREFIX, and COUNTRY ACCESS CODE, but with blank for CITY CODE. In addition, MIN. NBR. DIGITS EXPECTED on IDDD1 must be equal to or greater than MIN. NBR. DIGITS EXPECTED on IDDD2 and MAX. NBR. DIGITS EXPECTED on IDDD1 must be equal to or less than MAX. NBR. DIGITS EXPECTED on IDDD2.

2.6 # MIN. NBR. DIGITS EXPECTED

Description: The entry in this field is dependent on whether the application is IDDD or OSPS.

For IDDD (International Direct Distance Dialing) enter the Minimum Number of Digits that may be dialed for the Country Code plus the National Number. If the exact number of digits expected is known, this value must be entered as both the Minimum and Maximum Number of Digits Expected.

OSPS looks for 3 digits plus the MIN. NBR. DIGITS EXPECTED entry as the minimum length forward

number, e.g. if 4 is entered, OSPS expects 7 digits. The values 4 to 6 may only be used by a 5ESS Switch with OSPS Toll and Assistance.

Required Field.

Valid Entries:

5E9(2) and earlier: 4 - 12

5E10 and later: 4 - 15

Data Rules:

MIN. NBR. DIGITS EXPECTED cannot be greater than MAX. NBR. DIGITS EXPECTED. For 5E10 and later, the value of MIN. NBR. DIGITS EXPECTED cannot

exceed 12 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore the SFID 223 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). For more information on this feature, see Division 2, Section 4A223.

For 5E14 and later, MIN NBR DIGITS EXPECTED must be greater than or equal to the sum of the lengths of COUNTRY ACCESS CODE and CITY CODE.

2.7 # MAX. NBR. DIGITS EXPECTED

Description: Enter the Maximum Number of Digits that may be dialed for the Country Code plus the National Number. If the exact number of digits expected is known, this value must be entered as both the Minimum and Maximum Number of Digits Expected.

Required Field.

Valid Entries:

5E9(2) and earlier: 7 - 12

5E10 and later: 7 - 15

Data Rules:

For 5E10 and later, the value of MAX. NBR. DIGITS EXPECTED cannot exceed 12 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore the SFID 223 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.8 # CODE INDEX

Description: Enter the Code Index Number to be used for 01+ and 011+ calls. For screening purposes, 01+ is treated as an 0+ call, while 011+ is treated as 1+ call. Code Index 2 is normally used to screen IDDD calls.

For 5E8 and later, CODE INDEX is now a real Code Index and no longer a pointer to the DISERV form (5321 Record).

Required Field.

Valid Entries: 1 - 4095

All combinations of CODE INDEX from one or more LDIT, RDIT (5300-7/8 Record), PDIT, IDDD, or MLDIT forms (5300-3 Record), PREFIX from the PDIT form, and SCREENING INDEX from the LCC form (5306 Record) must have corresponding RAR form entries for CDI, PFX, and SCR.

2.9 ROUTE INDEX

Description: This field is used to indicate the Regular Route Index to be used for routing IDDD calls except when a Special Route Index entered on an RAR form overrides it. The Regular Route Index is the route which is used by the majority of call originators to complete the call.

For 5E8 and later, the ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

For 5E6 and later, a ROUTE INDEX must be entered for every CALL TYPE except "QUERY", for which ROUTE INDEX is optional.

2.10 DESEP

Description: Enter an optional Destination Separation Index to be used for 01+ and 011+ calls.

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on a TRFSEP form (5308 Record).

A DESEP cannot be entered when CALL TYPE is "QUERY".

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.11 # CALL TYPE

Description: Enter the Call Type to be used. This Call Type will indicate the action to be taken on the receipt of the incoming digits.

Required Field.

Software Release: 5E5 and later

Default: IDDDTSP

Valid Entries:

Valid CALL TYPE Entries	
Entry	Definition
IDDDFCA	International Direct Distance Dialing FCA (Fully Coded Addressing) call.
IDDDSTS	International Direct Distance Dialing Station To Station.
IDDTSP	International Direct Distance Dialing TSPS.
NORMAL	Software Release: 5E8 and later. ASP (Advanced Services Platform).
QUERY	Software Release: 5E6 - 5E7. Possible query to an external database.

IDDDFCA: This value is used for the address sequence of an international outbound call incoming to a Toll

Switch (OFFICE TYPE on the OFCOPT form (5509 Record) is "Y") which will use FCA. A DAS (Digit Analysis Selector) of 81 will be used instead of the DAS associated with the incoming trunk group. This Call Type may be assigned to incoming digit sequences CC + NN or 0/1X + CC + NN. CC is the Country Code. NN is the National Number. 0/1X is the ISC (International Switching Center) prefix code. If this value is entered, then "NONCI" must be entered in the TYPE CI CALL field, and the IDDD PREFIX field must not be entered.

IDDDSTS: International Direct Distance Dialing Station To Station is used for multi-stage international outbound calls which are routed to an MF trunk, CCIS6 trunk, or CCS7 ISUP trunk. This value may be assigned to codes which require two-stage call handling at a toll or tandem office. Two-stage call handling includes an acknowledgement wink before the second stage of digits is sent. Also used in a tandem or toll office when the digits impulsed on the trunk, typically from a TSPS, are 011 + padded Country Code.

This value can be used for:

- A Local office (OFFICE TYPE on the OFCOPT form is "N") where the incoming digits are 011 + (7 - 15 digits).
- A Toll office (OFFICE TYPE on the OFCOPT form is "Y") which will not use FCA (Fully Coded Addressing). Possible incoming digits are 1NX + XXX + CCC or 011 + PCC or 18X. 1NX is the customer direct dialed digits. XXX is the international carrier. CCC is the padded Country Code. PCC is the Pseudo Country Code. 18X indicates an international call.
- A 5ESS Gateway Switch that requires an FCA international outbound call to leave the office on an MF trunk must assign this CALL TYPE to the digit sequence CC + NN. CC is the Country Code. NN is the national number.

IDDTSP: This value is used to route IDDD calls via TSPS like 01 + 7- to 15-digit calls. It is also used for Carrier Interconnect calls to an INC (International Carrier). If this value is entered, then the IDDD PREFIX field must be entered.

QUERY: When CALL TYPE is "QUERY", use the CODE INDEX to locate the corresponding DISERV form (5321 Record) to determine what type of query, if any, should be made.

Data Rules:

For 5E8 and later, if an ICF form has CARRIER TYPE equal to "CONSOL" or "INC", all IDDD forms with CALL TYPE not equal to "NORMAL" or "IDDDFCA" should have TYPE CI CALL set to "IDDD".

For 5E8 and later, if CALL TYPE is not "NORMAL", ROUTE INDEX must be entered.

IDDDTSP: For 5E8 and later, if CALL TYPE is "IDDDTSP", then IDDD PREFIX must be entered.

IDDDFCA: For 5E8 and later, if CALL TYPE is "IDDDFCA", then TYPE CI CALL must be "NONCI" and IDDD PREFIX cannot be entered.

NORMAL: For 5E8 and later, if CALL TYPE is "NORMAL":

- DESEP cannot be entered,
- TYPE CI CALL must be "NONCI",
- IDDD PREFIX must be entered, and

- TRIG NBR must be entered.

QUERY: If the CALL TYPE is "QUERY", the CODE INDEX on this form must match the CDI field on a DISERV form (5321 Record), and

- SERV TYPE cannot be "E911" on the DISERV form.
- if SERV TYPE is set to "NOQRY" on that DISERV form, then the ROUTE INDEX field on this form must be entered. A SERV TYPE of "NOQRY" occurs at a NAP (Network Access Point) and the ROUTE INDEX must be entered to route to an SSP (Service Switching Point).
- for 5E7 and later, if "SSP" is entered in the PVN OFC on the OFCOPT form, then "PVNINT" must be entered in the SERV TYPE on the DISERV form.

2.12 TYPE CI CALL

Description: Enter the type of carrier interconnect call.

Software Release: 5E5 and later

Required Field.

Default: IDDD

Valid Entries:

Valid TYPE CI CALL Entries	
Entry	Definition
IDDD	Used for calls destined to outside World Zone 1. If this value is entered, at least one ICF form must be defined with a carrier type of "INC" or "CONSOL".
NONCI	Used for calls for where carrier selection is irrelevant.
PSCAR	Software Release: 5E10 and later. Packet Switched international call. This entry supports the 15 Digit IDDD feature. For more information on this feature see Division 2, Section 4A223.

Data Rules:

This field must be set to "NONCI" when CALL TYPE is "IDDDFCA" or "QUERY".

If "PSCAR" is entered, then CALL TYPE must be "IDDDSTS".

2.13 TRIG NBR

Description: Enter the Network Services trigger number.

Software Release: 5E8 and later

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

Data Rules:

If TRIG NBR is entered:

- it must match TRIG NBR on an NSTRIG form (5324 Record) ;

- APPLICATION on the NSTRIG form must not be "E911" ;
- if CALLTYPE is "NORMAL", APPLICATION on the corresponding NSTRIG form must not be "E911";
- for CALL TYPE equal to "NORMAL", if APPLICATION on the corresponding NSTRIG form
 - is "E911" or "800", ROUTE INDEX cannot be entered;
 - is "ASP", ROUTE INDEX must be entered, or ASP DEFAULT ROUTE INDEX on the ODAOPT form must be entered; and
- if SERV KEY on the corresponding NSTRIG form equals "CDPN", then the number of DIGITS EXPECTED on this form must be either 7 or greater than 9 for ALT GBL TITLE on NSTRIG not to be entered.

2.14 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

2.15 DFLT RT

Description: Enter the type of ASP Default Routing for 3/6/10-Digit Triggers.

Software Release: 5E9(1) and later.

Required Field.

Default: NONE.

Valid Entries:

Valid DFLT RT Entries	
Entry	Definition
ANNC	Default routing to a fixed route "DFLTRT" for an announcement.
DLDN	Default routing to the dialed DN.
NONE	Existing treatment to "reorder" or "no circuits available".

Data Rules:

If "ANNC" or "DLDN" are entered:

- then TRIG NBR must be entered.
- then the secured feature ASP (Advanced Service Platform) Default Routing for 3/6/10-Digit Triggers must be purchased. Therefore the SFID ACT 153 field must be "Y" on the SFSYS form (5713-1 Record).

If "ANNC" is entered, then a FIXRT form (5301-1 Record) must be defined with a FIXED ROUTE TYPE set to "DFLTRT".

When DFLT RT is other than "NONE", the corresponding TRIG NBR must be defined on the NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "R0D1". In addition, if DFLT RT equals "ANNC" then

SERVICE ALWD must not be "CSD".

2.16 INH OBL

Description: Is the ASP originating busy trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 212 ACT filed on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

2.17 INH ONA

Description: Is the ASP originating no answer trigger inhibited? This field supports the Call Screening for ASP Originating Busy/No Answer Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 212 ACT filed on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

2.18 ANI BYPASS

Description: Will ANI Table options be ignored? An entry of "N" indicates TDX ANI Table options will be processed. This field supports the TDX (Toll Digital Exchange) ANI Table Call Processing Feature. This is a secured feature with SFID 235. For more information on this feature, see Division 2, Section 4A165.

Software Release: 5E10 and later

Default: N

Valid Values: Y, N

2.19 DENY XFER

Description: This field is used to indicate if call transfers to a particular digit string should be denied.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later, when DENY XFER is set to "Y", the ACT field for SFID 291 on the SFSYS form must also be set to "Y". "Y" being set on the SFSYS form indicates that the "Deny Transfer of Digit Screened Calls" feature has been purchased.

2.20 REMARK

Description: This field may contain any remarks deemed locally necessary.

INTERNATIONAL PREFIX	INTERNATIONAL NUMBER (COUNTRY CODE + NATIONAL NUMBER)	TYPE OF INTERNATIONAL CALL
011	7-15 digits	STATION-TO-STATION
010	NONE	INTERNATIONAL OVERSEAS
01	7-15 digits	ASSISTANCE OPERATOR PERSON-TO-PERSON, CREDIT CARD, etc.

Figure 1 COMPOSITION OF INTERNATIONAL CALLS

```

iddd                                5ESS Switch      _
(5307)                             OFFICE DATA ADMINISTRATION
                                   INTERNATIONAL DIRECT DISTANCE DIALING

*1. LDIT                          ____
(*)2. IDDD PREFIX                 ____
*3. COUNTRY ACCESS CODE          ____
#4. MIN. NBR. DIGITS EXPECTED    ____
#5. MAX. NBR. DIGITS EXPECTED    ____
#6. CODE INDEX                   ____
7. ROUTE INDEX                   ____
8. DESEP                         ____
9. CALL TYPE                     IDDDTSP
10. TYPE CI CALL                 IDDD

11. TRIG NBR                     ____
12. ESC CODE                     N
13. DFLT RT                      NONE
14. INH OBL                     N
15. INH ONA                     N
16. ANI BYPASS                  N
17. DENY XFER                   N
18. REMARK                      _____

```

Figure 2 SAMPLE IDDD FORM 5E12 AND 5E13 SOFTWARE RELEASES

```

iddd                                5ESS Switch      _
(5307)                             OFFICE DATA ADMINISTRATION
                                   International Direct Distance Dialing Form

*1. LDIT                          ____
(*)2. IDDD PREFIX                 ____
*3. COUNTRY ACCESS CODE          ____
(*)4. CITY CODE                   ____
#5. MIN. NBR. DIGITS EXPECTED    ____
#6. MAX. NBR. DIGITS EXPECTED    ____

13. ESC CODE                     N
14. DFLT RT                      NONE
15. INH OBL                     N
16. INH ONA                     N
17. ANI BYPASS                  N
18. DENY XFER                   N

```

7. CODE INDEX	_____	19. REMARK	_____
8. ROUTE INDEX	_____		
9. DESEP	_____		
10. CALL TYPE	IDDDTSP		
11. TYPE CI CALL	IDDD		
12. TRIG NBR	_____		

Local digit interpreter table. Enter 1 to 999.

Figure 3 SAMPLE IDDD FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 3U: 5308 RECORD TRAFFIC SEPARATIONS CELL GROUPING FORM - TRFSEP

1. GENERAL

The Traffic Separations Cell Grouping Record is available with 5E2 and later Software Releases and defines Cell Groupings associated with INSEP/DESEP pairs. Traffic Separations are DOR (Division of Revenue) requirements.

For traffic separations purposes, every incoming or originating call is assigned an INSEP (Incoming Separations) Class and a DESEP (Destination Separations) Class.

The INSEP and DESEP of a call determine the appropriate accumulating counters to be updated. There is a maximum of 256 INSEPs and 256 DESEPs, therefore 65,536 possible INSEP/DESEP pairs. Each pair may update more than one counter, thus intermediate counters are used.

The INSEPs and DESEPs are used as indexes into a matrix. Each matrix element, called a cell, contains a pointer to one intermediate counter, or cell grouping, which should be updated. The intermediate results contained in the cell groupings are periodically accumulated into SSR (Separations Summarization Registers).

Each call, or call attempt, is assigned an INSEP and a DESEP for traffic separations purposes. INSEP assignment is dependent on line or trunk originations. DESEP assignment is dependent on the digits dialed, i.e., the ultimate destination of the call.

After the INSEP/DESEP assignment, the pair is translated to cell groupings. The INSEP/DESEP matrix has a maximum of 256 INSEPs and 256 DESEPs, therefore a maximum of 65,536 cells. Each cell contains an index into 1024 cell groupings.

Most local/toll offices may not need a 256 x 256 matrix. In these cases a 64 x 64 matrix, or 128 x 128 matrix, can be used.

The cell is used as an index into the cell grouping structure. Each cell grouping contains a peg count and usage count. Every possible combination of INSEP/DESEP pair must be assigned to a cell grouping. All calls through the system (toll or otherwise) will be reflected by the summation of the cell groupings.

INSEP and DESEP of 0 is used by the Software Release whenever no INSEP or DESEP is provided by the incoming line or trunk translations. INSEP and DESEP of 63 and a CELL GROUP of 1023 are Switch defaults and are used for calls that are not applicable to DOR (i.e. busy, reorder etc.). INSEP/DESEP values of (0, 63) should not be assigned.

Every call through the 5ESS Switch is recorded in the DOR cell group report. CELL GROUP 0 has always been used as a default cell group for calls that are not applicable to DOR. However, calls with translation problems were also defaulted to cell group 0.

To separate the calls that had translation problems from the calls that are not applicable to DOR, each call is initialized to a "Switch default" INSEP of 63, DESEP of 63 and a CELL GROUP of 1023. If a call is not applicable as a DOR call (i.e. busy, reorder, permanent signal, vacant code etc) then the call is recorded in the Switch default Cell Group 1023 or Cell Groups translated with a INSEP/DESEP value of 63, and all translational problem calls are recorded in default cell group 0.

CELL GROUP 0 is the default cell group. Valid DOR calls that are not assigned an INSEP and/or DESEP value, use INSEP/DESEP 0.

Note: The input message "ALW:DCGRPT" identifies INSEP and DESEP translation assignments in error.

CELL GROUP 1023 is the Switch default cell group. When a call is not applicable to DOR (i.e. busy, reorder etc.), the division of revenue cell group 1023 will collect the data.

CELL GROUPs translated with DESEP values of 63 include calls routed to a permanent signal. Because a call to permanent signal never receives a digit with which to read the database for a DESEP value. A Switch default INSEP and DESEP value of 63 is used for non DOR calls. These calls do not use the INSEP or DESEP database values.

The last stage of traffic separations is the summarization of the cell groupings into Separations Summary Registers. For the 5ESS Switch, the SSRs, as well as the mapping from cell grouping to SSR, will reside outside the switch in a downstream processor. The summarization process is an external support function.

See Division 2, Section 1B for more information.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each page of the Record.

2.2 * INSEP

Description: Enter the Incoming Separations Class. The INSEP for trunks is assigned according to the Trunk Group of the origination. For lines, the INSEP is assigned on the LCC Form (5306 Record) based on the Line Class Code and Rate Area.

NOTE: By using the Line Class Code form, INSEP assignments can be changed without changing data on a line by line basis.

Required Field.

Default: 0

Valid Entries: 0 - 254

Data Rules:

INSEP 0 is used whenever INSEP is not provided by the incoming line or trunk translations. INSEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.3 * DESEP

Description: Enter the Destination Separations Class. The DESEP assignment for lines is assigned on the LCC Form (5306 Record) based on the Line Class Code and Rate Area. For trunks, a DESEP is assigned according to the digits dialed.

Required Field.

Default: 0

Valid Entries: 0 - 255

Data Rules:

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.4 CELL GROUP

Description: Enter the Traffic Separations Cell Group number. Each cell grouping contains a peg count and usage count.

Valid Entries: 0 - 1023

Data Rules:

Each INSEP and DESEP assigned on other records must be assigned to at least one Cell Group. Every possible combination of INSEP and DESEP must also be assigned to a Cell Group.

CELL GROUP 1023 is the Switch default cell group for non DOR calls and should not be assigned.

CELL GROUPs should not be assigned an INSEP or DESEP value of 63. INSEP/DESEP 63 is used to separate non DOR calls (i.e. Vacant code, Permanent signal, etc.) from a valid DOR call.

CELL GROUP 0 is the default cell group. CELL GROUP 0 should be translated with all possible combinations of: INSEP X - DESEP 0, INSEP 0 - DESEP X, INSEP 0 - DESEP 0:

Where X= 1-62, 64-255

See Figure 1 for a simplified sample of an office with the following assignments.

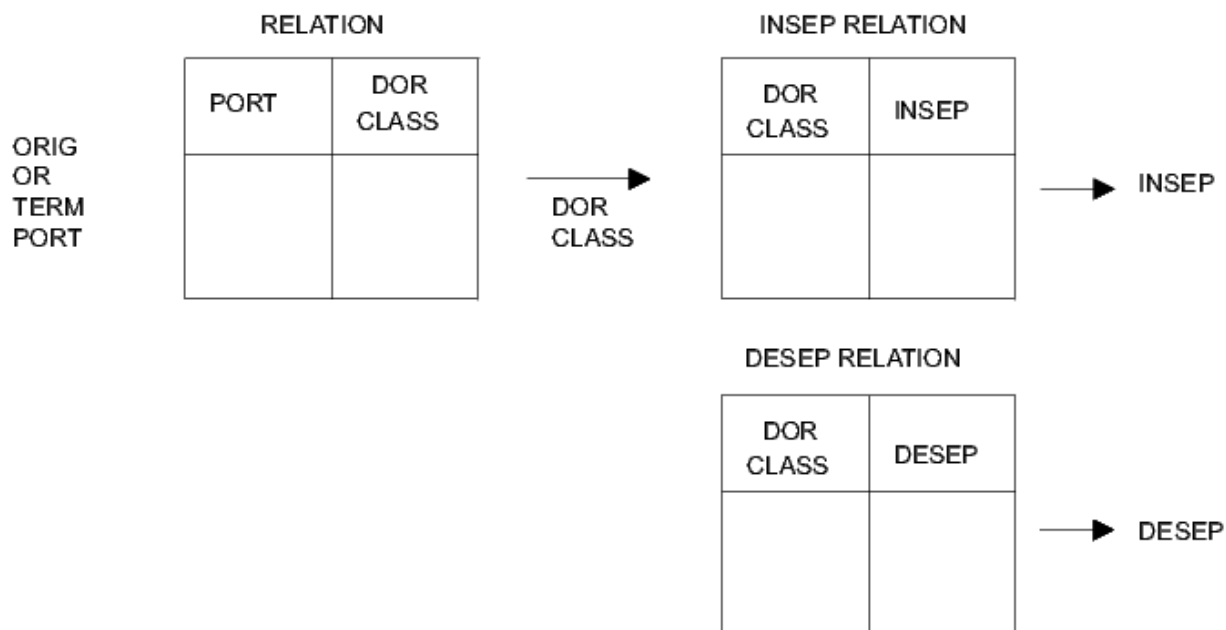
INSEP	ORIGINATED BY
0	Unassigned
1	Line
2	Trunk

DESEP	DESTINED FOR
0	Unassigned
1	Local number
2	Extended Area Service
3	Home NPA
4	Intrastate
5	Interstate

INSEP/DESEP ASSIGNMENT

LINES

Each originating or terminating line will have a Division of Revenue class associated with it. This is then used to determine INSEP or DESEP.



TRUNKS

1. Incoming Trunk Group determines INSEP
2. Six digit codes determine DESEP

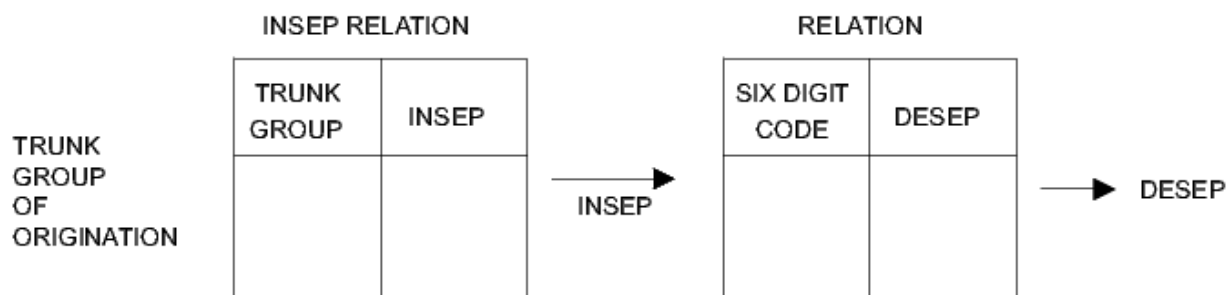


Figure 1 INSEP/DESEP ASSIGNMENT PROCESS

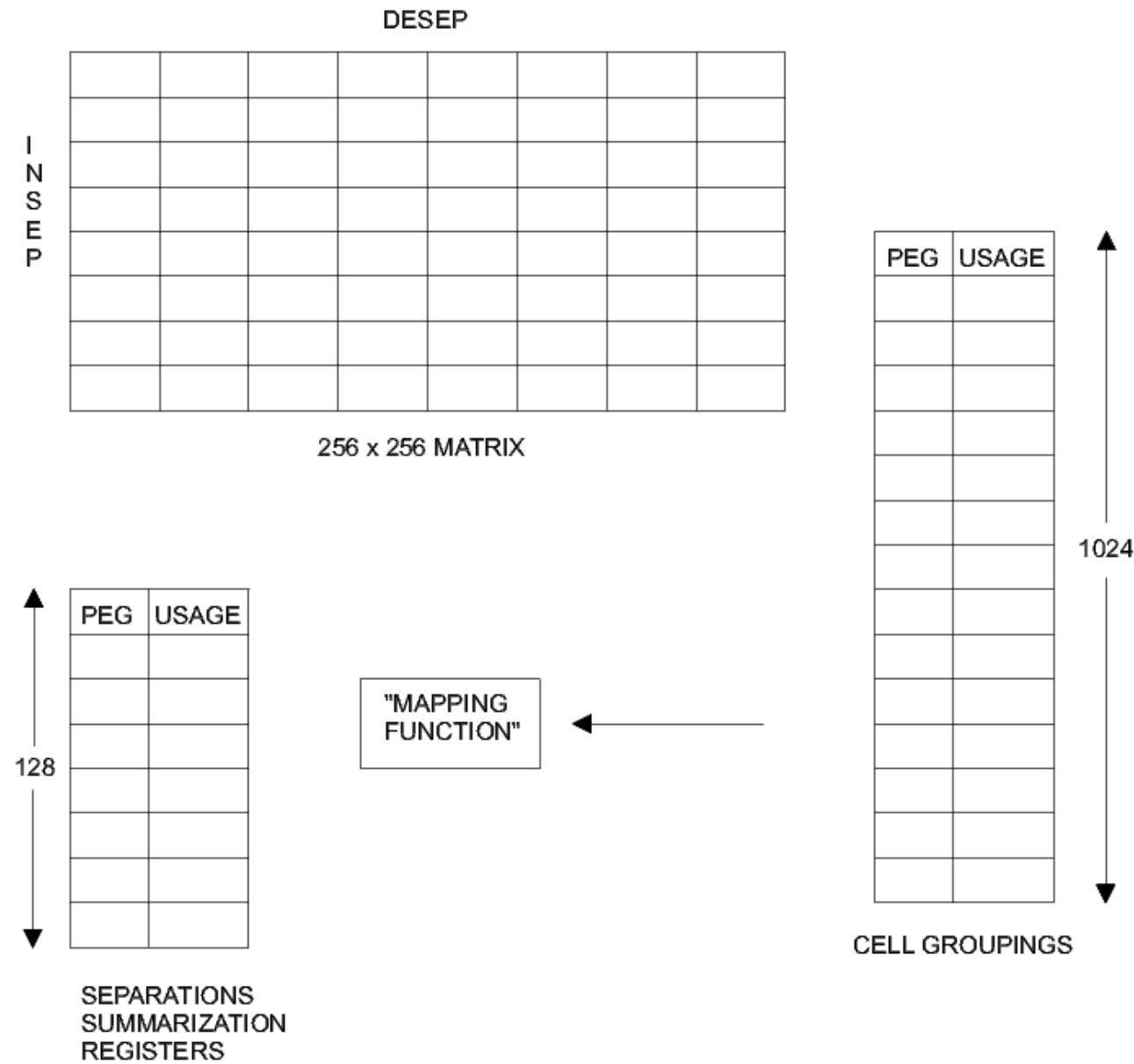


Figure 2 INSEP/DESEP MATRIX

trfsep	5ESS Switch	—
5308	OFFICE DATA ADMINISTRATION	
	TRAFFIC SEPARATIONS CELL GROUPING	
* 1. INSEP	003	
* 2. DESEP	005	
3. CELL GROUP	0002	

Figure 3 SAMPLE TRFSEP FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3V: 5309 RECORD INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER FORM - INDIT

1. GENERAL

The Incoming Trunk Preliminary Digit Interpretation Record is used to define the initial digit analysis and subsequent treatment of impulsed digits from all Incoming and Two-Way Trunks based upon the initial digits received.

Set LDIT equal to "N" whenever complete digit analysis is provided by INDIT. That is, whenever LDIT is by-passed and call processing passes directly to the RAR form (5301 Record).

This would normally be the case for a regular 7-digit telephone number when fewer than seven digits are incoming on the trunk. This type of call cannot be translated in LDIT because some or all of the digits of the NXX code have been deleted by the sending office.

The ultimate destination of these calls would typically be to a directory number defined on the Telephone Number Record for this office.

The directory number translation software reconstructs a 7-digit telephone number for either a line or trunk originated call terminating to a line defined with a route index as would be the case for a PBX DID (Direct Inward Dial) group. Therefore, less than 7-digit incoming calls destined for the DID group can use the same entry as the other telephone numbers in the office NXX (i.e., one INDIT entry for the NXX with a single code index). The route index associated with the line is then defined on the RTIDX form (5303 Record) with appropriate digit deletion based on the reconstructed 7-digit telephone numbers.

For any Software Release, it is possible to translate PBX-DID telephone numbers completely in digit analysis, if it is desired, to avoid telephone number translations for these numbers on the LINE form. It is also possible to completely translate EDSL TNs in digit analysis. The EDSL feature is available in 5E4(2) and later Software Releases. To do this, the LDIT would require entries similar to the above description to expand the NXX to the thousands or hundreds digit. If this is a 7-digit incoming office, the INDIT may point to LDIT for these translations. If less than seven digits are expected, both the LDIT and INDIT must break out the NXX and two route indexes would be required for the appropriate digit deletion as described above. If this method is used, it must be remembered that the LINE form was not entered, and therefore no record or verify of the telephone number will exist on a line basis. They will appear to be blank numbers. If one of these numbers is mistakenly assigned as a regular line, calls to the number will be routed to the PBX-DID.

Set LDIT equal to "Y" for incoming calls (usually seven or ten digits) when the ultimate destination is specified on the LDIT form.

The LDIT translations will be those specified for the DAS (Digit Analysis Selector) assigned to the incoming or two-way trunk group on the TKGRP form (5202 Record).

If the office expects seven digits on incoming traffic, either LDIT equal to "Y" or "N" may be used. LDIT equal to "N" would probably be the appropriate choice if the office only allows locally terminating calls on these trunks. "Locally terminating" means telephone numbers which have NXX codes defined on the NOC (Normalized Office Code) form (5501 Record) and would include calls which terminate to a local DID trunk group. By using LDIT equal to "N", the additional call processing step of LDIT would be eliminated for trunk originated calls.

However, if the office tandems traffic, then LDIT equal to "Y" would be appropriate to avoid many duplicate digit analysis entries in both INDIT and LDIT. Both local and tandem codes would be sent to LDIT for digit

analysis by entering on the INDIT Record all possible first digits which are acceptable with LDIT equal to "Y". See the example in Figure 2.

- **NOTE:** Caution must be taken when LDIT is used for digit interpretation and the office is translated for Carrier Interconnect. If a TYPE OF CI CALL such as "INTER" is found during digit interpretation, an InterLATA Carrier will be required to route the call. If the OFFICE CARRIER ID is specified on the OFCOPT form (5509 Record) and the route defined for that carrier is appropriate for trunk originations, then this method is acceptable. However, the preferred method is to use separate digit interpretation (i.e., INDIT or unique LDIT) so that "NONCI" may be entered for TYPE OF CI CALL on trunk originated calls.

For both cases of LDIT equal to "Y" and "N", the subsequent screening on the RAR (Rate and Route) form (5301 Record) utilizes the NO PREFIX entries.

1.1 Revertive Pulsing Trunk Groups

For INDITs used for incoming revertive pulsing trunk groups, the INCOMING DIGITS may be a 0 or 5 which represents LOW 5 and HIGH 5 directory numbers, or three digits which indicate the Office Brush, Office Group and LOW 5/HIGH 5 Indicator. If these calls terminate to directory numbers in this office, the INCOMING DIGIT count may be deleted and the appropriate OFFICE CODE entered. If these calls must tandem to another office without RP signaling, the appropriate digits of the NXX must be prefixed on the RTIDX form (5303 Record). It is possible to receive 0 or 5 plus 4 digits from an end office on an RPEO Trunk Group, and outpulse Office Brush, Office Group and 0 or 5 to a tandem on an RPTO Trunk Group and vice versa. The Office Brush and Office Group digits required for outpulsing to the tandem must be prefixed on the RTIDX form. In the second case, the Office Brush and Group digits could be deleted on the INDIT or on the RTIDX form for outpulsing to the end office.

1.2 Recent Change View

The corresponding Recent Change View for this form is 9.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INC. TRUNK PRELIMINARY DIT

Description: Enter the Incoming Trunk Preliminary Digit Interpreter Table being defined. The Incoming Trunk Preliminary Digits are used for Incoming and Two-Way Trunk Group terminations.

Valid Entries: 1 - 999

2.3 * INCOMING DIGITS

Description: Enter the incoming digits to be interpreted.

For applications where only four digits are received, and the call is to complete to a 7-digit directory number within the 5ESS Switch, the first digit of each equipped thousands group must be defined in these columns. For example, if NXX 355 has the 3XXX, 4XXX, and 5XXX numbers equipped and the office receives 4 digits incoming, then the digits 3, 4, and 5 must be defined.

If the initial digits received from the trunk are not defined on the INDIT form, reorder will be returned.

Valid Entries: 1 - 15 digits

2.4 LDIT

Description: Should the LDIT (Local Digit Interpreter Table) form (5300-3/5 Record) be used to analyze the incoming digits?

Required Field.

Valid Entries: Y, N

Data Rules:

For 5E8 and later, if LDIT equals "N", RECONSTRUCT must be "N".

For 5E8 and later, if LDIT equals "Y", TRIG NBR must not be entered.

For 5E9(1) and later, when LDIT equals "Y", ESC CODE must be "N".

2.5 RECONSTRUCT

Description: Should the dialed digits be reconstructed for Network Services triggers?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If RECONSTRUCT equals "Y":

- LDIT must be "Y",
- OFFICE CODE must be entered,
- TYPE OF CI CALL, CODE INDEX, IMPLIED NPA, DESEP, and ROUTE INDEX must not be entered, and
- POLYGRID must be "N".

If LDIT equals "Y" and RECONSTRUCT equals "N", OFFICE CODE and NBR OF DIGITS EXPECTED must not be entered.

2.6 BUILD 10 DIGITS

Description: This field indicates whether or not to reconstruct to 10 digits. For trunk originations involving abbreviated incoming signaling (e.g. less than 7 digits), if this field is set to "Y", the incoming digit string will be reconstructed to 10 digits based on the values entered in the OFFICE CODE and NPA fields. The reconstructed 10-digit number is then re-analyzed in LDIT. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Default: N

Valid Entries: Y, N

Data Rules:

When LDIT is "N", BUILD 10 DIGITS must be "N".

When LDIT is "Y" and BUILD 10 DIGITS is "Y", RECONSTRUCT must be "Y".

2.7 TYPE OF CI CALL

Description: This field is associated with the Carrier Interconnect capability.

Valid TYPE OF CI CALL Entries	
Entry	Definition
AVT	Access Via Tandem is used for an incoming trunk call from an EAEO (Equal Access End Office); the digits 0ZZXXX are received. The 0ZZ digits are entered in the INCOMING DIGITS field and represent a spare toll center code. XXX represents a Carrier Identification Code and is not interpreted on the INDIT. The 5ESS Switch, serving as an Access Tandem, tandems the call to the carrier based on entries in the CDIM form (5300-6 Record).
INC	International Carrier call is used for an incoming trunk call from an EAEO; the digits 1NXXXXCCC are received. The 1NX digits are entered in the INCOMING DIGITS field and represent a spare toll center code. XXX represents an International Carrier Identification Code and is not interpreted on the INDIT. CCC represents a padded Country Code and is not interpreted by the 5ESS Switch. The 5ESS Switch, serving as an Access Tandem, tandems the call to the International Carrier based on entries in the CDIM form (5300-6 Record).
EMRR	Emergency Reroute call is used for an incoming trunk call from an EAEO; either of the digit sequences illustrated under "AVT" or "INC" are received. The 5ESS Switch in this case may be either an EAEO or an AT and is used only during an emergency when the originating EAEO cannot route to its AT. Based on the 0ZZ or 1NX codes, the call is routed, without further digit interpretation, to the proper AT. EMRR applies only to Equal Access MF and not to ISUP (SS7) signaling.
INTRM	Software Release: 5E8 and later. FGB Interim call is used for an incoming trunk call dialed by the originator as 950XXXX. The 950 digits are entered in the INCOMING DIGITS. The XXXX represent a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the INCOMING DIGITS. When "INTRM" is entered, the last four digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's FGB CDI and FGB RTI. Because "INTRM" is also a valid entry in the LDIT form, it may be optionally used instead of the INDIT form.
TRANS	Software Release: 5E7 and earlier. Transition call is used for an incoming trunk call dialed by the originator as 950WXXX. The 950W digits, where W may be any digit but is usually 1, are entered in the INCOMING DIGITS. The XXX represent a Carrier Identification Code. These calls may be from a non-EAEO and less than the seven digits may be received as would then be reflected in the INCOMING DIGITS. When "TRANS" is entered, the last three digits impulsed (i.e., the Carrier Identification Code) will be used to enter the ICF form (5305 Record) to access the Carrier's TRANS CDI and TRANS RTI. Because "TRANS" is also a valid entry in the LDIT form, it may be optionally used instead of the INDIT form.
NONCI	Used for calls for which carrier selection is irrelevant (e.g. locally terminating traffic, local company tandem traffic, calls incoming from a carrier either directly or via an AT).
PSNCI	Software Releases: 5E3 and later. Used for incoming Packet Switch calls. These calls will terminate to a line in the office.

Data Rules:

This field is used only when LDIT equals "N".

For 5E5 and later, if "PSNCI" is selected, then either an OFFICE CODE or a ROUTE INDEX must be entered, but not both.

For 5E7 and later, if TYPE OF CI CALL is "PSNCI", DESEP may not be entered.

2.8 CODE INDEX

Description: If LDIT equals "N", or if destination is DN, then enter the CODE INDEX number to be used on the RAR form (5301 Record); otherwise, leave this field blank.

For 5E8 and later, CODE INDEX is now a real Code Index and no longer a pointer to the DISERV form (5321 Record).

Valid Entries: 1 - 4095

Data Rules:

If any RAR form associated with this INDIT can also be used by lines in this office, then Code Indexes 1 and 2 may not be used.

All combinations of CODE INDEX, and SCR from the TKGRP form must have corresponding RAR form entries for CDI, SCR, and "NONE" for PFX.

For 5E8 and later, either CODE INDEX on this form or an MLDIT (5300-3 Record) or PDIT (5300-2 Record), or CODE INDEX or CDI on RDIT (5300-7/8 Record) or LDIT, or WITH ANI or WITHOUT ANI on an AISCLS form must equal INC CDI on an INFLDEST form (5448 Record).

2.9 ROUTE INDEX

Description: This field is used to indicate the regular route index used for tandem traffic except when a special route index entered on the RAR form (5301 Record) overrides it.

For 5E8 and later, the ROUTE INDEX can be used for routing if the SCP replies to route with it.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

This field is entered only when LDIT equals "N".

No entry should be made in this field when Type of CI Call is "AVT", "INC", or "PSNCI".

2.10 POLYGRID

Description: Should polygrid routing be used? This field is used only in DSN (Defense Switched Network) offices.

Software Release: 5E3 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this is a DSN office (DSN OPTION set to "Y" on the OFCOPT form), POLYGRID should be "Y". For non-DSN offices, it must be "N".

2.11 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

When NPA is entered, OFFICE CODE must be entered.

For 5E12 and later, when the OFFICE CODES and/or NPA/OFFICE CODE combinations are assigned on the INDIT form they must be defined on the NOC form.

2.12 OFFICE CODE

Description: This field is used for two purposes, either to designate a code served by this 5ESS Switch or for NM (Network Management) code controls.

Valid Entries:

For 5E3 and later: 3 digits

Data Rules:

If LDIT is "N" and this incoming trunk call terminates to a number served by the 5ESS Switch (i.e., defined on the NOC form), then enter the NXX. If an OFFICE CODE is entered but the ROUTE INDEX is not, it will route the call to a directory number of this NXX in this office, except when a special route index or NXX entered on the RAR form (5301 Record) overrides it.

When both a ROUTE INDEX and an OFFICE CODE are entered, it is determined that the OFFICE CODE is being used for Network Management code controls. The OFFICE CODE in this case is used when the INCOMING DIGITS do not contain all of the digits of the NXX's (i.e., when four to six digits are impulsed) which the NM generic software must know to accomplish control (blocking) by codes. If LDIT equals "Y", then the implied NPA/NXX is determined from the LDIT form and is prohibited here.

If LDIT is "N", and NBR OF DIGITS EXPECTED is 4 or 5, the NM implied NXX may be entered here.

If LDIT is "N", NBR OF DIGITS EXPECTED is 6, and the number of INCOMING DIGITS is two or more, the NM implied NXX may be entered here.

If LDIT is "N", NBR OF DIGITS EXPECTED is 6, and the number of INCOMING DIGITS is one, the NM implied NXX is not currently supported and may not be entered.

When LDIT is "N", and NBR OF DIGITS EXPECTED is greater than 6, the implied NXX is determined from the INCOMING DIGITS.

This field is entered only when LDIT equals "N".

See Figure 1 for a summary of allowable entries and constraints for OFFICE CODE when LDIT equals "N".

For 5E12 and later, if the INDIT forms have an OFFICE CODE defined and there are multiple NOC forms with the same value of OFFICE CODE, NPA will also have to be defined on the INDIT form.

2.13 IMPLIED NPA

Description: This field is used by the NM (Network Management) generic software for code control. It contains the called NPA which is implied by incoming trunk calls and is allowed if LDIT equals "N", and NBR OF DIGITS EXPECTED is between 4 and 7 (inclusive), except for the case when 6 digits are expected and the number of INCOMING DIGITS is one.

Valid Entries: 3 digits

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 and later: 200 - 999

Data Rules:

The NPA which has been specified as the DEFAULT NPA on the OFCOPT form (5509 Record) may not be entered as any IMPLIED NPA on the INDIT form.

When four to six digits are expected and IMPLIED NPA has an entry, then the OFFICE CODE must also have an entry.

See Figure 1 for a summary of allowable entries and constraints for IMPLIED NPA when LDIT equals "N".

2.14 DESEP

Description: This field is used to define the Destination Separations Index.

Valid Entries: 1 - 255

Data Rules:

DESEP is allowed only when LDIT is "N". If entered, DESEP must be defined on the TRFSEP form (5308 Record).

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

2.15 NBR OF DIGITS EXPECTED

Description: Enter the total number of digits expected.

Valid Entries: 1 - 15

Data Rules:

If LDIT is "N", NBR OF DIGITS EXPECTED must be entered. For LDIT trunk destinations, this field must be left blank (since the number of digits expected is entered on the LDIT form).

2.16 # NBR OF DIGITS TO BE DELETED

Description: This field is used to define the number of digits to be deleted after the incoming "steering" digits are analyzed but before either the DN or LDIT translation is begun.

- Incoming Routing Destination - DN; or "N" is entered in LDIT.

For this application, the steering digit(s) is normally deleted since it is no longer required to complete a directory number. This also applies when a call is to complete in the 5ESS Switch Office or is a tandem call. For tandem calls, the steering digits may be deleted here or on the appropriate RTIDX form (5303 Record). The number of digits deleted must be less than or equal to the number of digits expected (NBR OF DIGITS EXPECTED field).

- **NOTE:** Any digits deleted here will not appear in the AMA Record if this is a billable call.

- Incoming Routing Destination - LDIT; or "Y" is entered in LDIT.

For this application, 7 or 10 digits are usually expected (except for n11 codes) with no prefix digit(s). Except in the unlikely case that prefixed steering digits are received, no digits should be deleted.

If digits are to be deleted, the number of digits deleted must be less than or equal to the number of digits entered in the INCOMING DIGITS field.

- **NOTE:** Any digits deleted here will not appear in the AMA Record if this is a billable call.

Required Field.

Valid Entries: 0 - 15

2.17 TRIG NBR

Description: Enter the Network Services trigger number.

Software Release: 5E8 and later

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

Data Rules:

If TRIG NBR is entered, it must equal TRIG NBR on an NSTRIG form (5324 Record).

If TRIG NBR is entered, TYPE OF CI CALL must be "AVT".

If LDIT is "N", TYPE OF CI CALL is "AVT", and TRIG NBR is entered, then the corresponding NSTRIG form must have APPLICATION equal to "EAASP" (5E8), "ASP" (5E9(1) and later), or "EAOFC".

When TRIG NBR is entered, and NBR OF DIGITS EXPECTED is 0 through 6, 8, or 9, and SERV KEY is "CDPN" on the corresponding NSTRIG form, then ALT GBL TITLE on NSTRIG must be entered.

For 5E8, if TRIGNBR is entered, and ASP OFC on the OFCOPT form is either "BILLNAP" or "NOBILLNAP", ROUTE INDEX must be entered.

2.18 ESC CODE

Description: Is the digit sequence an ASP off-hook delay trigger exception?

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.19 NODAL IDX

Description: Proprietary field.

2.20 DN PREFD

Description: Proprietary field.

2.21 GETS HPC

Description: Is GETS (Government Emergency Telecommunication Service) HPC (High Probability Call Completion Service) required? The GETS HPC field is used as an indicator to mark GETS HPC calls so that enhanced functionality provided by other HPC capabilities (e.g., Trunk Queuing, ISUP Signaling, Exemption from Network Management Controls) can be invoked. When set to "Y", calls translated to this address receive special treatment resulting in a higher probability of call completion. For more information, see Division 2, Section 4A279.

The use of HPC Network Capabilities is restricted in the United States and U.S. Territories to National Security/Emergency Preparedness (NS/EP) users authorized by the Office of the Manager, National Communication System (OMNCS). Telco deployment of these HPC Network Capabilities must be co-ordinated with the OMNCS at the following address:

Office of the Manager
National Communication System
Attn: GETS Program Office
701 South Courthouse Rd
Arlington, VA, 22204-2198
email: gets@ncs.gov

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When GETS HPC is "Y", NBR OF DIGITS EXPECTED must be 10.

When GETS HPC is "Y", TYPE OF CI CALL must be "NONCI".

When the LDIT/MLDIT/RDIT/INDIT forms' GETS HPC is "Y" or CONFLICT RESOLUTION GETS HPC is "Y", GETS HPC or CONFLICT RESOLUTION GETS HPC can be "Y" only when the GETS High Probability of Call Completion Secured Feature has been purchased. A SFSYS form must exist with SFID 279 ACT set to "Y".

2.22 REMARKS

Description: These columns may contain any entries deemed locally necessary.
Valid Entries: 1 - 16 characters

ROUTE INDEX entered?	NUMBER OF INCOMING DIGITS	NUMBER OF DIGITS EXPECTED	OFFICE CODE	IMPLIED NPA
N	don't care	1 - 3	RN	P
N	don't care	4 - 7	RN	A
N	don't care	8 - 15	RN	P
Y	1	1 - 3	P	P
Y	1	4 - 5	A	A
Y	1	6	P	P
Y	1	7	P	A
Y	1	8 - 15	P	P
Y	2 - 3	2 - 3	P	P
Y	2 - 6	4 - 6	A	A
Y	2 - 7	7	P	A
Y	2 - 15	8 - 15	P	P

RN - Required and must be defined on the NOC form

A - Any NPA/NXX allowed

P - Prohibited

Figure 1 REQUIREMENTS FOR OFFICE CODE AND IMPLIED NPA

```

indit                               5ESS Switch      —
(5309)                             OFFICE DATA ADMINISTRATION
                                   INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER

```

```

* 1. INC. TRUNK PRELIMINARY DIT  001
* 2. INCOMING DIGITS              2
  3. LDIT                        N
  4. RECONSTRUCT                  N
  5. TYPE OF CI CALL              PSNCI
  6. CODE INDEX                   0003
  7. ROUTE INDEX                  ____
  8. POLYGRID                     N
  9. OFFICE CODE                  222
10. IMPLIED NPA                   ____
11. DESEP                        ____
12. NBR OF DIGITS EXPECTED        02
#13. NBR OF DIGITS TO BE DELETED  00
14. TRIG NBR                      ____
15. ESC CODE                      N
16. REMARK                        _____

```

Figure 2 SAMPLE INDIT FORM 5E11 AND EARLIER SOFTWARE RELEASES

```

indit                               5ESS Switch
SCREEN 1 OF 2                       OFFICE DATA ADMINISTRATION
(5309)                             INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER

```

```

*1. INC. TRUNK PRELIMINARY DIT ____

```

*2. INCOMING DIGITS	_____
#3. LDIT	—
4. RECONSTRUCT	N
5. BUILD 10 DIGITS	N
6. TYPE OF CI CALL	_____
7. CODE INDEX	_____
8. ROUTE INDEX	_____
9. POLYGRID	N
10. NPA	_____
11. OFFICE CODE	_____
12. IMPLIED NPA	_____

```

indit                                5ESS Switch          —
SCREEN 2 OF 2                        OFFICE DATA ADMINISTRATION
(5309)                               INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER

```

13. DESEP	_____
14. NBR OF DIGITS EXPECTED	_____
#15. NBR OF DIGITS TO BE DELETED	_____
16. TRIG NBR	_____
17. ESC CODE	N
18. NODAL IDX	—
19. DN PREFD	N
20. REMARK	_____

Figure 3 SAMPLE INDIT FORM 5E12 AND LATER SOFTWARE RELEASES

```

indit                                5ESS Switch
SCREEN 1 OF 2                        OFFICE DATA ADMINISTRATION
(5309)                               INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER

```

*1. INC. TRUNK PRELIMINARY DIT	_____
*2. INCOMING DIGITS	_____
#3. LDIT	—
4. RECONSTRUCT	N
5. BUILD 10 DIGITS	N
6. TYPE OF CI CALL	_____
7. CODE INDEX	_____
8. ROUTE INDEX	_____
9. POLYGRID	N
10. NPA	_____
11. OFFICE CODE	_____
12. IMPLIED NPA	_____

```

indit                                5ESS Switch          —
SCREEN 2 OF 2                        OFFICE DATA ADMINISTRATION
(5309)                               INCOMING TRUNK PRELIMINARY DIGIT INTERPRETER

```

13. DESEP	_____
14. NBR OF DIGITS EXPECTED	_____
#15. NBR OF DIGITS TO BE DELETED	_____
16. TRIG NBR	_____
17. ESC CODE	N
18. NODAL IDX	_____
19. DN PREFD	N
20. GETS HPC	N
21. REMARK	_____

Figure 4 SAMPLE INDIT FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 3X: 5311 RECORD CIRCUIT CODE TO DIGIT TRANSLATION RECORD - CKTCODE

1. GENERAL

The 5311 Circuit Code to Digit Translation Record is available with 5E6 and later Software Releases.

This form is used to translate an incoming circuit code to a 0ZZ, 1NX or 1N'X digit string used for equal access or international signaling.

This form is used to translate the 4 bit circuit code, received in the TNS (Transit Network Selection) parameter of an ISUP7 (Integrated Services Digital Network User Part 7) IAM (Initial Address Message), to a digit value which represents the 0ZZ, or 1NX or 1N'X digit string used in equal access and international signaling. This form is only used for Originating Access Tandem offices with incoming "ISUP7" trunks and Originating Toll offices that handle international traffic on incoming "ISUP7" trunks.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.23.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * CKT CODE

Description: Enter the circuit code. This field is the network identification field of the Transit Network Selection parameter.

This field, contained in the Network Identification field of the TNS parameter of the CCS7 IAM, contains a 4 bit circuit code value. A 4 bit value of 0000, is defined in the ISUP7 protocol specification to have a meaning of unspecified. Since all CCS7 subfields have a default value of zero unless otherwise assigned, it is not recommended to use 0 as a meaningful value for CKT CODE.

A CKT CODE value of 1 must be used when PREFIX DIGITS contains the 1NX (international call, no operator requested) standardized string. A CKT CODE value of 2 must be used when PREFIX DIGITS contains the 1N'X (international call, operator requested) standardized string.

Valid Entries: 0 - 15

2.3 # DIG

Description: Enter the 0ZZ or 1NX or 1N'X digit string used in equal access and international signaling. Valid entries are 000 - 099 for domestic calls and 100 - 199 for international calls.

Required Field.

Valid Entries: 000 - 199

cktcode
(5311)

5ESS Switch
OFFICE DATA ADMINISTRATION

—

CIRCUIT CODE TO DIGIT TRANSLATION

*1. CKT CODE 01
#2. DIG 012

Figure 1 SAMPLE CKTCODE FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3Y: 5312 RECORD ORIGINATING NUMBERING PLAN AREA FORM - ONPA

1. GENERAL

The 5312 Record is applicable to 5E2 and later Software Releases and is used by an INWATS Originating Screening Office (an Interexchange Carrier switch) to associate a 00X code with an originating NPA and vice versa. To use this capability, ORIG SCREEN OFF must equal "Y" on the OFCOPT Form (5509 Record).

The OSO (Originating Screening Office) recognizes an INWATS call for OSO by the CALL TYPE of "OSOIWTS" entered on the LDIT form (5300-3 Record). This call type triggers the software to send a direct signaling message using Common Channel Signaling to the INWATS database. Part of the message specifies the originating NPA.

Usually, the originating NPA can be determined by the ANI (Automatic Number Identification) digit sequence (i.e., the calling number). ANI is sent because the originating office is an Equal Access End Office using Equal Access signaling protocol either on a direct trunk group, or via an Access Tandem, or it is a nonconforming end office on a direct CAMAANI trunk group. If ANI is not sent, then the far end NPA can be determined from the originating trunk group.

However, sometimes the traffic on this incoming trunk group may have originated in multiple NPAs so the FAR END NPA specified on the trunk group would not be correct for all incoming 800 calls. This may be true when nonconforming end offices are not directly connected to this switch but are tandemed either through an Access Tandem or through a tandem switch that does not use Equal Access signaling protocol. If the originating end offices reside in multiple NPAs (and subsequently arrive at the OSO on one trunk group), the tandem switch must delete the 800 digits and prefix a 00X code to the remaining seven digits where the X is a digit representation of the originating NPA. Several unique 00X codes are then outpulsed on one trunk group to the OSO.

The OSO will translate in LDIT the 00X digit strings with the CALL TYPE of "OSOIWTS" when the INWATS database needs to be queried. The digit interpretation is the same as the 800 digit strings. However, call processing will recognize that an 00X-type code translated as "OSOIWTS" requires that the information submitted on this ONPA form must be accessed to determine the originating NPA of the caller.

For either 800 or 00X incoming digit strings, the information sent to and returned from the INWATS database will be the same. If the 800 number is appropriate for the originating NPA, a POTS number will be returned by the INWATS database which will be subsequently interpreted and routed by the OSO. If the 800 number is inappropriate, the message returned will invoke the fixed route type of "UIA" defined on the FIXRT form (5301-1 Record). If the 800 number is not found, the message returned will invoke the fixed route type of "VACANT".

If the OSO has a requirement to screen 800 or 00X codes and return non-Carrier calls to the local company, the inverse of 00X to NPA will be required. This inverse is provided in the database automatically with the values input through the ONPA Form. All INWATS calls that need to be returned to the local company will be outpulsed in the format of 00X plus seven digits. Again, the X is a digit representation of the originating NPA.

By six-digit translating the 800 or 00X original digit string, the OSO can distinguish calls that must be returned from Carrier calls requiring the INWATS database query by using INWATS instead of "OSOIWTS" as the call type in LDIT. When ORIG SCREEN OFF on the OFCOPT Form equal "Y", the 5ESS Switch recognizes the INWATS call type as a call to be routed back to the local company.

If the digit string being interpreted is already in the format 00X-NXX-XXXX, the call may continue processing as it is using the Code Index and Route Index as they appear in the LDIT entry.

If the digit string is in the format of 800-NXX-XXXX, the 800 must be changed to 00X before the digits are outpulsed. To do this, call processing will access the NPA to 00X database information based on the originating NPA. The 800 digits will now be replaced with the appropriate 00X digits and the call routed based on the Code Index and Route Index of the 800 LDIT entry.

For 5E4(2) and later Software Releases, the 5312 Record is also used by the SSP800 (Service Switching Point 800) capability. To use this capability, SERV SWTCH PT must equal "Y" on the OFCOPT form (5509 Record). The 5312 Record is used to specify the originating LATA and indicate if the traffic from the LATA will be exclusively COIN traffic.

NOTE: An office cannot serve as an OSO (Originating Screening Office) and a Service Switching Point Office at the same time.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.8.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * INWATS 00X CODE

Description: Enter the INWATS 00X Code, where the X is a digit representation of the Originating NPA entered in the next field.

Required Field.

Valid Entries: 000 - 009

2.3 ORIGINATING NPA

Description: Enter the Originating NPA of the party calling the 800 INWATS number.

Required Field.

Valid Entries: 3 digits

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 and later: 200 - 999

2.4 ORIGINATING LATA

Description: Enter the LATA number where the call originated.

Default: 0

Valid Entries: 0 - 999

2.5 COIN IND

Description: Will the traffic from the LATA be exclusively COIN traffic? If the traffic will be a combination of COIN and other traffic enter "N".

Default: N

Valid Entries: Y, N

onpa	5ESS Switch	—
(5312)	OFFICE DATA ADMINISTRATION	
	ORIGINATING NUMBERING PLAN AREA	

* 1. INWATS 00X CODE 001

2. ORIGINATING NPA 815

3. ORIGINATING LATA 002

4. COIN IND N

Figure 1 SAMPLE ONPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3Z: 5313 RECORD - CCSRTI

1. GENERAL

The CCSRTI (Common Channel Signaling Route Index) form and the corresponding 5313 Office Record are available with 5E3 and later Software Releases. The CCSRTI input form is used only with CCS type trunks. Every CCS call whose chosen route does not meet the per call restrictions, identified in the CCS IAM message, must have an appropriate entry specified on the CCSRTI form. Given a current ROUTE INDEX corresponding to a trunk group carrying CCS traffic and associated satellite and digital restrictions, an alternate NEW ROUTE INDEX can be specified. This form should not be submitted in offices without CCS trunks.

For 5E6 and later Software Releases, CCSRTI forms can be used only if the COMMON CHAN SIG field on the OFCOPT form (5509 Record) is "Y".

1.1 Recent Change View

The corresponding Recent Change View for CCSRTI is 10.26.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * ROUTE INDEX

Description: Enter the Route Index value associated with a Trunk Group Number that carries CCS traffic.

Required Field.

Valid Entries:

- For 5E10 and earlier: 1 - 3617
- For 5E11 and later: 1 - 4095

2.3 * RESTRICTIONS

Description: The RESTRICTIONS field consists of three parts -- Signal Type, Satellite Restriction, and Digital Path Restriction.

Signal Type can take on two values:

- NS: The new route index chosen must be associated with a trunk group that has either CCIS6 or ISUP7 signaling.
- I7: The new route index chosen must be associated with a trunk group that has ISUP7 signaling. This will only happen if the incoming IAM indicates that ISUP7 signaling is required all the way for this call. This restriction only applies to SDN calls for 5E5.

The Satellite Restriction can take on two values:

- SN: The CCS call has not been routed via satellite on any of the prior call legs, thus there are no Satellite Restrictions on the NEW ROUTE INDEX.
- SY: The CCS call has been routed via satellite on a prior call leg and thus the NEW ROUTE INDEX must point to a TGN with the Satellite field set to "N".

The Digital Path Restriction can take on two values indicating whether a digital path is required for the CCS call.

- PN: A digital path is not required, thus there is no Digital Restriction on the trunks associated with the NEW ROUTE INDEX value.
- PY: A digital path is required to complete the CCS call, thus the NEW ROUTE INDEX must be associated with a TGN on the TKGRP input form that contains all digital trunks (DENs) on the corresponding TRUNK input forms.

Required Field.

Entry	Valid RESTRICTIONS Entries		
	Definition		
	SIGNAL TYPE	SATELLITE RESTRICTION	DIGITAL PATH RESTRICTION
NSSNPN	Null	No	No
NSSNPY	Null	No	Yes
NSSYPN	Null	Yes	No
NSSYPY	Null	Yes	Yes
I7SNPN	ISUP7	No	No
I7SNPY	ISUP7	No	Yes
I7SYPN	ISUP7	Yes	No
I7SYPY	ISUP7	Yes	Yes

2.4 NEW ROUTE INDEX

Description: The NEW ROUTE INDEX represents the associated Trunk Group that meets the above call restrictions.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The NEW ROUTE INDEX and ROUTE INDEX value can not be the same.

```
ccsr ti          5ESS OFFICE DATA ADMINISTRATION  _
(5313)          COMMON CHANNEL SIGNALING ROUTE INDEX FORM
```

```
* 1. ROUTE INDEX      0300
* 2. RESTRICTIONS    NSSNPN
  3. NEW ROUTE INDEX  0400
```

Figure 1 SAMPLE CCSRTI FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 3AA: 5314 RECORD DATA RATE ROUTE INDEX FORM - DTRTX

1. GENERAL

The 5314 Record is applicable to the 5E4(2) through 5E8 Software Releases. This form is used to define a new route index for ISDN circuit switched data calls or CCS Trunks. Data calls will be routed on a Trunk Group that has a Data Rate defined on the TKGRP form. For a Route Index assigned in Digit Analysis, a new Route Index can be assigned to this call depending on the Data Rate requested. The Data Rate Route Index value must be defined on a RTIDX form and the value of the Next Route Index (if applicable) must be capable of handling this traffic. For 5E9(1) and later, assignment of alternate data route indices for both narrow and wide band data rates is provisioned on the RTIDX form (5303 Record).

1.1 Voice and Data Calls

The value of Data Rate Route Index can be defined on the Digit Interpreter Table forms (PDIT, INDIT, LDIT, IDDD) only if the associated Trunk Group is capable of handling both voice and data calls.

1.2 Recent Change View

The corresponding Recent Change View for this form is 10.2 (See also RTIDX form (5303 Record) Division 3, Section 3P for RC view 10.2.)

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * ROUTE INDEX

Description: Enter the Route Index which is to be replaced by the Data Rate Route Index.

Required Field for 5E4(2) - 5E8 only.

Valid Entries: 1 - 3617

Data Rules:

The Route Index entered here must be defined on a RTIDX form where the ROUTE TYPE must be "HUNT" and must be assigned to an interoffice Trunk Group.

2.3 * DATA RATE

Description: Enter the Data Rate to be used to obtain the Data Rate Route Index for the Route Index above.

Required Field for 5E4(2) - 5E8 only.

Valid DATA RATE Entries	
Entry	Definition
56K	For trunks able to carry 56 kb/s data calls.
R64K	For trunks able to carry restricted 64 kb/s data calls.
64K	For trunks able to carry 64 kb/s data calls.

2.4 DATA RATE ROUTE INDEX

Description: Enter the Route Index to replace the key Route Index for the Data Rate defined above.

Required Field for 5E4(2) - 5E8 only.

Valid Entries: 1 - 3617

Data Rules:

The value entered here must be defined on a RTIDX form.

For 5E7 and later, if DATA RATE ROUTE INDEX equals ROUTE INDEX on an RTIDX form, whose TGN is defined on a TKGRP form (5202 Record) where TRK DIR equals "2W" or "OUT", TRKCLS is not "EDSL" or "EDSLHM", and OUTPUTSING is not "ISUP7", then it cannot also be assigned as ROUTE INDEX on these forms: HGRPAS (5115 Record), IDDD (5307 Record), INDIT (5309 Record), LDIT (5300-3/5 Record), LINE (5109-1/2/3 Record), MLDIT (5300-3 Record), RDIT (5300-7/8 Record) (5E8 and later), PDIT (5300-2 Record), and RAR (5301 Record).

dtrtx	5ESS OFFICE DATA ADMINISTRATION	_
5314	DATA RATE ROUTE INDEX FORM	

* 1. ROUTE INDEX	0125
* 2. DATA RATE	64K
3. DATA RATE ROUTE INDEX	0200

Figure 1 SAMPLE DTRTX FORM 5E4(2) - 5E8 SOFTWARE RELEASES

SEC. 3AB: 5315 RECORD LDIT AND ASSOCIATED SM LIST - SMLDIT

1. GENERAL

The 5315 Record is available with 5E5 and later Software Releases.

The SMLDIT form is used to associate SM(s) with a particular LDIT (Local Digit Interpreter Table) value. This will allow LDIT information to reside only on the specific SM(s) which require the information, thus optimizing the use of SM memory. For example, if a unique LDIT is defined specifically for an RSM (Remote Switching Module) or ORM (Optically Remote Module) cluster, then that LDIT value could be assigned only to those SMs. The other LDIT values could be assigned to SMs which reside at the Host.

All LDIT values defined on the LDIT form (5300-3 Record) must be entered on an SMLDIT form with a list of SMs where the LDIT information will reside.

It is recommended that this form associate SMs with an LDIT value even though this information is not currently needed on the SMs. It will be needed eventually. This will avoid the need to associate the LDIT information with the SMs during service order or trunk order activity after the office is cutover. By following this recommendation, this form would have to be updated only when a new SM is grown into the office.

The SDN DAS defined on the TKGRP form (5202 Record) and its associated SMs on the TRUNK form (5204 Record) must be defined on the SMLDIT form.

LDIT information is required on an SM when line or trunk terminations on an SM use a particular LDIT to perform digit analysis. LDIT values are associated with line or trunk terminations via the DAS form (5300-1 Record). Each DAS value is assigned to lines or trunks directly or indirectly via an LCC form (5306 Record).

- A DAS value may be assigned directly on one of the following forms and the corresponding SM is determined as follows.
 - TKGRP form (5202 Record) - When a DAS value is entered in the DAS field, then all members of the trunk group, defined on the TRUNK forms (5204 Record), are associated with that DAS value. The SM associated with each trunk member is determined by the first three digits of the TEN or DEN field on the TRUNK form.
 - OSPDSL form (5411 Record) - When a DAS value is entered in the DAS field, then the associated SM is determined by the first three digits of the MATE LCEN field.
- A DAS value may be assigned indirectly via the LCC form. When a DAS value is assigned on an LCC form, then the corresponding LINE CLASS CODE and RATE AREA combination can be assigned on a LINE, MLHLN, DSL, DSLUSR or AMLBDSL form and the corresponding SM is determined as follows:
 - LINE form (5109 Record) - An LCC/RAX combination is entered and the corresponding SM is determined by the first three digits of the OE NUMBER field.
 - MLHLN form (5111 Record) - An LCC/RAX combination is entered and the corresponding SM is determined by the first three digits of the OE NUMBER field.
 - DSL form (5907 Record) - A PPB1 and/or PPB2 LCC/RAX combination is entered and the corresponding SM is determined by the first three digits of the DSL OE field.
 - DSLUSR form (5908 Record) - A CKT and/or DPKT and/or ODB LCC/RAX combination is entered

and the corresponding SM is determined by the first three digits of the OE field.

- AMLBDSL form (5447 Record) - A PKT LCC/PKT RAX combination is entered and the corresponding SM is determined by the first three digits of the LCEN field.

1.1 OSPS and Toll Offices

In addition to the requirements specified above, OSPS and Toll offices may require additional SM entries on this form. The circumstances under which additional entries for SMLDIT forms are required are described below:

- If this is an OSPS office with the Toll & Assistance feature (the OSPS TA field on the OSPSOPT form (5424 Record) is set to "Y"), then every PSM (Position Switching Module) must be entered on every SMLDIT form. PSMs are SMs which have any LCEN(s) defined on an OPARM form (5400 Record), or any LCEN(s) or DEN(s) defined on an OSPSOP form (5401 Record). The first three digits of the corresponding LCEN or DEN field contain the PSM number.
- If this is an OSPS office with the Directory Assistance feature only (the OSPS DA field on the OSPSOPT form is set to "Y", the OSPS TA field on the OSPSOPT form set to "N"), then every PSM must be entered on every SMLDIT form which is associated with an STINFO form (5402-1/2 Records). All of the PSMs can be determined by finding every SM which has any LCEN(s) defined on an OPARM form, or any LCEN(s) or DEN(s) defined on an OSPSOP form. The SMLDIT form is associated with an STINFO form if the LDIT on the SMLDIT form matches the LDIT assigned (via the DAS form's LOCAL DIT) to the DAS value of the DIG ANALYSIS SEL or SEC DIG ANALYSIS field on the STINFO form.
- If this is an AT&T Toll office (the OFFICE TYPE field is "Y" and the OFFICE CARRIER field is 288 on the OFCOPT form (5509 Record)), then all SMs in the office must be assigned on those SMLDIT forms associated with the special Toll DAS values of 81, 82, 89, 90, 91, 92, 97 and 98. An SMLDIT form is associated with one of these Toll DAS values if the DAS is defined on the DAS form, and the corresponding LOCAL DIT field matches the LDIT value on the SMLDIT form.
- If this is an AT&T Toll office (the OFFICE TYPE field is "Y" and the OFFICE CARRIER field is 288 on the OFCOPT form), and has ACT PT SDN on the OFCOPT form set to "Y" (which means that the office serves as an Action Point for the Software Defined Network), then the SMLDIT form associated with the Toll DAS value of 88 must include every SM which has trunks defined on a TKGRP form (5202 Record) with INPUTSING set to "ISUP7" or ACP SDN set to "Y". The Toll DAS value is the LOCAL DIT field on the DAS form. The associated SM(s) can be found in the first three digits of the TEN or DEN field on all related TRUNK forms (5204 Record).

1.2 Foreign Area Translator

For 5E6 and later, operating companies can make use of a FAT (Foreign Area Translator) LDIT during digit analysis. The FAT/LDIT performs further digit analysis on LDITs that are interpreting common dialed or impulsed digit strings. For more information concerning the implementation and use of the FAT/LDIT, see Division 2, Section 1AO.

1.3 Recent Change View

The corresponding Recent Change view for this form is 9.25.

2. BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.1 * LDIT

Description: Enter the LDIT (Local Digit Interpreter Table) number. If this LDIT is going to serve as a FAT/LDIT (FAT is "Y" on this form), enter an LDIT value in the range 200 - 999.

Valid Entries: 1 - 999

Data Rules:

This FAT/LDIT value must not be assigned on the DAS form (5300-1 Record) as LINE DAS LOCAL DIT or TRUNK DAS LOCAL DIT. In other words, it cannot be assigned directly to any lines or trunks in an office.

This LDIT must be defined on an LDIT form.

2.2 PKT SW

Description: This field is for use by Recent Change/Verify only.

2.3 FAT

Description: Does this LDIT function as a FAT/LDIT pointed to by other LDITs to continue digit interpretation?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, the LDIT table number must be in the range 200 - 999, and must not point to another FAT/LDIT.

2.4 LIST OF SWITCHING MODULES

Description: Enter the SM(s) associated with the LDIT.

Valid Entries: 1 - 192

Data Rules:

At least one entry must be made and each entry must be unique.

If FAT is "Y" on this form, the LIST OF SWITCHING MODULES must include all SM lists on all LDITs which make reference to this FAT/LDIT.

The SMs entered must be defined on an EQIM form (5700-1 Record).

SCREEN 1 OF 3

smldit

(5315)

5ESS Switch

OFFICE DATA ADMINISTRATION

LDIT AND ASSOCIATED SM LIST

*1. LDIT 001

2. PKT SW

3. FAT N

4. LIST OF SWITCHING MODULES

1. 012	7. ____	13. ____	19. ____	25. ____	31. ____	37. ____	43. ____
2. 015	8. ____	14. ____	20. ____	26. ____	32. ____	38. ____	44. ____
3. 018	9. ____	15. ____	21. ____	27. ____	33. ____	39. ____	45. ____
4. 023	10. ____	16. ____	22. ____	28. ____	34. ____	40. ____	46. ____
5. 025	11. ____	17. ____	23. ____	29. ____	35. ____	41. ____	47. ____
6. ____	12. ____	18. ____	24. ____	30. ____	36. ____	42. ____	48. ____

SCREEN 2 OF 3

smldit

(5315)

5ESS Switch

OFFICE DATA ADMINISTRATION

LDIT AND ASSOCIATED SM LIST

4. LIST OF SWITCHING MODULES

49. ____	58. ____	67. ____	76. ____	85. ____	94. ____	103. ____	112. ____
50. ____	59. ____	68. ____	77. ____	86. ____	95. ____	104. ____	113. ____
51. ____	60. ____	69. ____	78. ____	87. ____	96. ____	105. ____	114. ____
52. ____	61. ____	70. ____	79. ____	88. ____	97. ____	106. ____	115. ____
53. ____	62. ____	71. ____	80. ____	89. ____	98. ____	107. ____	116. ____
54. ____	63. ____	72. ____	81. ____	90. ____	99. ____	108. ____	117. ____
55. ____	64. ____	73. ____	82. ____	91. ____	100. ____	109. ____	118. ____
56. ____	65. ____	74. ____	83. ____	92. ____	101. ____	110. ____	119. ____
57. ____	66. ____	75. ____	84. ____	93. ____	102. ____	111. ____	120. ____

SCREEN 3 OF 3

smldit

(5315)

5ESS Switch

OFFICE DATA ADMINISTRATION

LDIT AND ASSOCIATED SM LIST

4. LIST OF SWITCHING MODULES

121. ____	130. ____	139. ____	148. ____	157. ____	166. ____	175. ____	184. ____
122. ____	131. ____	140. ____	149. ____	158. ____	167. ____	176. ____	185. ____
123. ____	132. ____	141. ____	150. ____	159. ____	168. ____	177. ____	186. ____
124. ____	133. ____	142. ____	151. ____	160. ____	169. ____	178. ____	187. ____
125. ____	134. ____	143. ____	152. ____	161. ____	170. ____	179. ____	188. ____
126. ____	135. ____	144. ____	153. ____	162. ____	171. ____	180. ____	189. ____
127. ____	136. ____	145. ____	154. ____	163. ____	172. ____	181. ____	190. ____
128. ____	137. ____	146. ____	155. ____	164. ____	173. ____	182. ____	191. ____
129. ____	138. ____	147. ____	156. ____	165. ____	174. ____	183. ____	192. ____

Figure 1 SAMPLE SMLDIT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3AC: 5316 RECORD COUNTRY CODE PREFIX - CCP

1. GENERAL

The 5316 Record is available with 5E5 and later Software Releases.

This form is used when the calling digits of an international outbound call must be prefixed by a two-digit code (0/1X) in order to prevent misrouting. The two-digit prefix code will identify the appropriate ISC (International Switching Center) to each of the intermediate toll switches in the network.

For 5E5 and later Software Releases, all international outbound calls will be processed using FCA (Fully Coded Addressing). FCA is a CCS (Common Channel Signaling) single-stage protocol used to route international outbound calls in a uniform manner through the AT&T domestic network. With FCA, when an international outbound call is routed to a 5ESS Toll Switch, the 5ESS Toll Switch will collect all the dialed digits and route the call as a CCS single-stage call towards a 4ESS ISC (International Switching Center).

International outbound calls routed through intermediate toll switches (i.e., via switch) may use CCS single stage signaling. CCS single-stage signaling will also be used towards the appropriate ISC.

The digits outputted are [0/1X +] CC + NN. The 0/1X is the ISC prefix code. CC is the Country Code. NN is the National Number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.16.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * COUNTRY CODE

Description: Enter a Country Code.

Valid Entries: 1 - 999

2.3 # PREFIX

Description: Enter an ISC (International Switching Center) prefix. The two-digit prefix code will identify the appropriate ISC to route the international outbound call.

Required Field.

Valid Entries: 0 - 19

ccp
(5316)

5ESS Switch
OFFICE DATA ADMINISTRATION
COUNTRY CODE PREFIX

*1. COUNTRY CODE 20

#2. PREFIX 17

Figure 1 SAMPLE CCP FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3AD: 5317 RECORD EAS INFORMATION DIGITS - EASID

1. GENERAL

The 5317 Record is available with 5E5 and later Software Releases.

This form is used to define the EA (Equal Access) Signaling information digits used for international and domestic EA calls. Information digits allow specific types of calls to be allowed or blocked.

A standard set of Information Digits is provided by 5ODA and is shown in Figure 1. If the definition of an Information Digit needs to be changed, this form may be used to change the values.

For 5E5 and later, all international outbound calls will be processed using FCA (Fully Coded Addressing). FCA is a CCS (Common Channel Signaling) single-stage protocol used to route international outbound calls in a uniform manner through the AT&T domestic network. With FCA, when an international outbound call is routed to a 5ESS Toll Switch, the 5ESS Toll Switch will collect all the dialed digits and route the call as a CCS single-stage call towards a 4ESS ISC (International Switching Center).

International calls entering the AT&T network through a 5ESS POP (Point of Presence) Toll Switch may use EA three-stage signaling.

The digits outputted in the first-stage are KP + 1NX + XXX + CCC + ST. KP indicates the MF start digit. 1NX is the customer direct dial. XXX is the international carrier. CCC is the padded Country Code. ST is the MF end digit.

The digits outputted in the second-stage are KP + [II + ANI +] ST. II is an information digit. ANI is the Automatic Number Identification.

The digits outputted in the third-stage are KP + CC + NN + ST. CC is the Country Code. NN is the National Number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.17.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * INFO DIGITS

Description: Enter the EA information digits. Information digits determine the type of calls that are allowed to be international or domestic outbound.

For values of information digits and associated INTL and DOMESTIC entries provided by 5ODA, please refer to Figure 1.

Valid Entries: 0 - 99

Data Rules:

Values 12 - 19 are reserved because they conflict with 1NX, therefore the INTL field must be "EABLOCK" and the DOMESTIC field must be "EAINC".

2.3 INTL

Description: Enter the type of EA international calls allowed based on the information digits.

Required Field.

Default: EABLOCK

Valid Entries:

Valid INTL Entries	
Entry	Definition
EA10ANI	Allow a 10-digit ANI.
EA310ANI	Allow a 3 and 10 digit ANI.
EA3ANI	Allow a 3-digit ANI.
EABLOCK	Block Equal Access international calls.
EAINC	International Carrier call.
EANOANI	No ANI sequence.
EATEST	Test Call.

2.4 DOMESTIC

Description: Enter the type of EA domestic calls allowed based on the information digits.

Required Field.

Default: NONEA

Valid Entries:

Valid DOMESTIC Entries	
Entry	Definition
EA10ANI	Allow a 10-digit ANI.
EA310ANI	Allow a 3 and 10 digit ANI.
EA3ANI	Allow a 3-digit ANI.
EAALW800	Allow only 800 calls.
EAINC	International Carrier call.
EANOANI	No ANI sequence.
EATEST	Test Call.
NONEA	Traditional call.

INFO DIGITS	DESCRIPTION	INTL FIELD	DOMESTIC FIELD
00	Identified Line - No Special Treatment	EA10ANI	EA10ANI
01	ONI (Multiparty)	EABLOCK	EA3ANI
02	ANI Failure	EABLOCK	EA3ANI
06	Hotel/Motel	EA10ANI	EA10ANI
07	Coinless, Hospital, Inmate, etc.	EA10ANI	EA10ANI
08	Inter-LATA Restriction	EABLOCK	EAALW800
10	Test Call	EABLOCK	EATEST
12 - 19	Reserved because they conflict with 1NX	EABLOCK	EAINC
20	AIOD (Automatically Identified Outward Dialing) - Listed TN Sent	EA10ANI	EA10ANI
23	Unknown - Coin or Coinless	EABLOCK	EA310ANI
24	Pretranslated 800 Call	EABLOCK	NONEA
27	Coin Call	EABLOCK	EA310ANI
68	Inter-LATA Restricted-Hotel/Motel	EABLOCK	EAALW800
78	Inter-LATA Restricted-Coinless, etc.	EABLOCK	EAALW800
95	Test Call	EABLOCK	EATEST

Figure 1 RECOMMENDED VALUES FOR INFORMATION DIGITS

easid	5ESS Switch	—
(5317)	OFFICE DATA ADMINISTRATION	
	EAS INFORMATION DIGITS	

*1. INFO DIGITS	00
2. INTL	EA10ANI
3. DOMESTIC	EA10ANI

Figure 2 SAMPLE EASID FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3AE: 5318 RECORD PAIRED COUNTRY CODE (PCC)/COUNTRY CODE (CC) - PCC

1. GENERAL

The 5318 Record is available with 5E5 and later Software Releases.

This form is used to convert a PCC (Pseudo Country Code) to a CC (Country Code) or determine the length of a CC. A Pseudo Country Code is the same as a Paired Country Code.

All PCC (Pseudo Country Codes) and CC (Country Codes) must be defined on this form for the FCA (Fully Coded Addressing) feature which is available on a 5ESS Toll Switch.

For 5E5 and later, all international outbound calls will be processed using FCA (Fully Coded Addressing). FCA is a CCS (Common Channel Signaling) single-stage protocol used to route international outbound calls in a uniform manner through the AT&T domestic network. With FCA, when an international outbound call is routed to a 5ESS Toll Switch, the 5ESS Toll Switch will collect all the dialed digits and route the call as a CCS single-stage call towards a 4 ESS ISC (International Switching Center).

International calls entering the AT&T network through a 5ESS POP (Point of Presence) Toll Switch may use traditional two-stage signaling.

The digits outputted in the first-stage are 011 + PCC or 18X. The PCC is the Pseudo Country Code. 18X indicates an international call.

The digits outputted in the second-stage are KP + CC + NN + ST or KP + PCC + NN + ST. KP indicates the MF start digit. CC is the Country Code. NN is the National Number. ST is the MF end digit.

NOTE: For 5E7 and later, when CCS7 signaling is used on incoming calls destined to an International Carrier, an entry on this form is required for each country code. Adding or deleting COUNTRY ACCESS CODEs to or from the IDDD form (5307 Record) requires that the COUNTRY CODEs be added or deleted to or from this form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.18.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * PCC/CC

Description: Enter a Paired/Pseudo Country Code or Country Code. The entry can be a 3-digit Pseudo Country Code or a 1-3 digit Country Code.

Valid Entries: 1 - 999

Data Rules:

For 5E6 and later, every PCC form with PCC/CC not entered the same as Country Code on the first PCC form must have a second PCC form that has Country Code matching the first PCC/CC.

2.3 # COUNTRY CODE

Description: Enter a Country Code. If a PCC is entered in the PCC/CC field, then enter the associated CC in this field. If a CC is entered in the PCC/CC field, then enter the same CC in this field.

Required Field.

Valid Entries: 1 - 999

pcc	5ESS Switch	—
(5318)	OFFICE DATA ADMINISTRATION	
	PAIRED COUNTRY CODE (PCC)/COUNTRY CODE (CC)	
*1. PCC/CC	31	
#2. COUNTRY CODE	31	

Figure 1 SAMPLE PCC FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3AF: 5319 RECORD SPECIAL ACCESS BAND SCREENING FORM - SPABS

1. GENERAL

The 5319 Record is available with 5E5 and later Software Releases. This form is associated with the 5ESS Toll Switch features called Special Access WATS (Wide Area Telecommunications Service) and MEGACOM Service.

Special Access WATS is similar to regular switched WATS except Special Access WATS allows a customer's PBX (digital or analog) to connect directly to the 5ESS Toll Switch via a dedicated trunk group. A Special Access WATS trunk group is defined on a TKGRP form (5202 Record) with a TRKCLS of "SPAWATS".

MEGACOM Service is a volume discount service. MEGACOM is similar to WATS service except that there is no subscription to a band and the customer must supply the dedicated trunk connection to the 5ESS Toll Switch. The 5ESS Switch will process the call like a WATS band 6 call. A MEGACOM trunk group is defined on a TKGRP form with a TRKCLS of "SPAMEG".

This form is used to determine if a Special Access customer is allowed to originate a call to a particular NPA based on the customer's subscribed service band. If the NPA entered in the SPA BILL TN field is different from the NPA called, then this form will be used to see if the call will proceed. The customer's subscribed band service will be compared to the band service associated with the NPA defined on this form. The customer's subscribed band service will be determined from the 6th digit of the Special Access Billing Telephone Number defined in the SPA BILL TN field on the TKGRP form.

If the customer's subscribed service band is equal or higher than the band number associated with the NPA on this form, then the call will proceed. Otherwise, the call will be routed to a vacant code announcement.

1.1 Recent Change View

The Recent Change view that corresponds to this form is 10.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * BILLING NPA

Description: Enter the Special Access customer's NPA (Numbering Plan Area).

Valid Entries: 200 - 999

LIST OF NPAs AND BAND NUMBERS FOR AN NPA PAIRING

The following fields in the list (Section 2.3 - Section 2.4) associate an NPA with a particular WATS band. The NPAs listed are used in conjunction with the BILLING NPA to determine if a call can be completed based on the service band. A maximum of 156 NPAs can be listed.

2.3 NPA

Description: Enter a NPA (Numbering Plan Area) which will be used in conjunction with the BILLING NPA.

Valid Entries: 201 - 999

2.4 BAND

Description: Indicate the WATS service band that the NPA is assigned. The service band assigned to this NPA will be compared to the customer's subscribed service band (digit 6 of the SPA BILL TN defined on the TKGRP form) to determine if the call will proceed.

Valid BAND Entries	
Entry	Definition
0	
1	An NPA that is inter-state band 1.
2-6	Standard WATS band values.

SEC. 3AG: 5320 RECORD SPECIAL ACCESS EXEMPT NXXs FORM - SPAENXX

1. GENERAL

The 5320 Record is available with 5E5 and later Software Releases. This form is associated with the 5ESS Toll Switch features called Special Access WATS (Wide Area Telecommunications Service) and MEGACOM Service.

Special Access WATS is similar to regular switched WATS except Special Access WATS allows a customer's PBX (digital or analog) to connect directly to the 5ESS Toll Switch via a dedicated trunk group. A Special Access WATS trunk group is defined on a TKGRP form (5202 Record) with a TRKCLS of "SPAWATS".

MEGACOM service is a volume discount service. MEGACOM is similar to WATS service except that there is no subscription to a band and the customer must supply the dedicated trunk connection to the 5ESS Toll Switch. The 5ESS Switch will process the call like a WATS band 6 call. A MEGACOM trunk group is defined on a TKGRP form with a TRKCLS of "SPAMEG".

This form is used to exclude specific NXXs in a NPA from being dialed by a Special Access customer. If the NPA dialed is defined on a SPAENXX form, then the NXX dialed will be checked against the list of exempt NXXs on this form. If the NXX dialed is defined on this form, then a vacant code announcement will be returned. Otherwise, the call will proceed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * FAR END NPA

Enter the Numbering Plan Area (NPA) of the exempt NXXs.

LIST OF EXEMPT NXXs FOR THE GIVEN NPA

The following is a list of NXXs for a particular NPA that cannot be dialed by a Special Access customer.

2.3 NXX

Description: Enter the NXXs for a particular NPA that cannot be dialed by a Special Access customer.
Valid Entries: 200 - 999.

Data Rules:

All NXXs listed must be unique.

spaenxx

5ESS Switch

—

(5320)

OFFICE DATA ADMINISTRATION
SPECIAL ACCESS EXEMPT NXXs

*1. FAR END NPA 809

2. LIST OF EXEMPT NXXs FOR THE GIVEN NPA

1. 255	6. ____	11. ____	16. ____	21. ____	26. ____	31. ____	36. ____	41. ____	46. ____
2. 323	7. ____	12. ____	17. ____	22. ____	27. ____	32. ____	37. ____	42. ____	47. ____
3. 435	8. ____	13. ____	18. ____	23. ____	28. ____	33. ____	38. ____	43. ____	48. ____
4. ____	9. ____	14. ____	19. ____	24. ____	29. ____	34. ____	39. ____	44. ____	49. ____
5. ____	10. ____	15. ____	20. ____	25. ____	30. ____	35. ____	40. ____	45. ____	50. ____

Figure 1 SAMPLE SPAENXX FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 3AH: 5321 RECORD DESTINATION TO SERVICE TYPE FORM - DISERV

1. GENERAL

The 5321 Record is available with 5E6 and 5E7 Software Releases. This record relates a code destination index to a type of service when the digit analysis tables indicate the possibility of a query to an external database. For 5E8 and later, this form is no longer needed, its functionality replaced by the NSTRIG form (5324 Record). See Division 2, Section 1AP for more information.

The possibility of a query to an external database can be indicated by entering a CALL TYPE of "QUERY" on the LDIT form (5300-3/5 Record), MLDIT form (5300-3 Record), PDIT form (5300-2 Record), or IDDD form (5307 Record). The CODE INDEX entered on the LDIT, MLDIT, PDIT, or IDDD form corresponds to the CDI field on this form.

A DISERV form must be entered for every such LDIT, MLDIT, PDIT, and IDDD form.

The possibility of a query to an external database can also be indicated by entering a TYPE OF CI CALL of "AVT" on an INDIT form (5309 Record). When such an INDIT form is used while translating a call where the 0ZZ-XXX code for EAMF trunks has XXX matching PSEUDO CARR on the OFCOPT form, then the CODE INDEX on the INDIT form will be used to read a DISERV form. Also, when such an INDIT form is used to translate a call where the TNS parameter for CCS7 trunks matches PSEUDO CARR on the OFCOPT form, then the CODE INDEX on the INDIT form will be used to read a DISERV form.

This form is for use with ASP (Advanced Services Platform (ASP; previously PVN, Private Virtual Network) and E911 features. When PVN OFC on the OFCOPT form (5509 Record) is set to "NONE", this form can be entered only if SERV TYPE is "E911".

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CDI

Description: Enter the code destination index.

Valid Entries: 1 - 4095

2.3 SERV TYPE

Description: Enter the service type to be associated with the CDI.

Required Field.

Valid SERV TYPE Entries	
Entry	Definition
E911 or 9	Software Release: 5E7. Enhanced 911 query.

NOQRY or N	No query will be generated. This is used at a NAP (Network Access Point) to indicate that no query will be made and the call will be routed to an SSP (Service Switching Point). The ROUTE INDEX on the LDIT (5300-3/5 Record), MLDIT (5300-3 Record), PDIT (5300-2 Record), IDDD (5307 Record), or INDIT (5309 Record) form will be used to route the call to the SSP.
NS800 or 8	Number Services 800 Call. See Division 2.
PVN or P	General ASP. This indicates that further digit collection is required to determine the specific ASP type. This is used to indicate ASP service on the first stage signaling of an EA (Equal Access) call. Further digits will need to be collected and analyzed to determine whether the call should be treated as "PVNON", "PVNDOM", or "PVNINT".
PVNDOM or D	ASP Domestic Off-net (public network). This indicates that an ASP query should be made specifying that a domestic off-net number was dialed.
PVNINT or I	ASP International Off-net (public network). This indicates that an ASP query should be made specifying that an international off-net number was dialed.
PVNON or O	ASP On-net (private network). This indicates that an ASP query should be made specifying that an on-net number was dialed.

Data Rules:

If PVN OFC on the OFCOPT form (5509 Record) is set to "BILLNAP" or "NOBILLNAP", SERV TYPE must be set to "NOQRY" or "E911". If PVN OFC on the OFCOPT form is set to "SSP", then SERV TYPE cannot be set to "NOQRY".

```

diserv          5ESS Switch          —
(5321)          OFFICE DATA ADMINISTRATION
                DESTINATION TO SERVICE TYPE

```

```

*1. CDI        0006
#2. SERV TYPE PVNDOM

```

Figure 1 SAMPLE DISERV FORM 5E6 - 5E7 SOFTWARE RELEASES

SEC. 3AI: 5322 RECORD LEASED NETWORK ROUTING RECORD - LNROUT

1. GENERAL

The 5322 Leased Network Routing Record is available with 5E6 and later Software Releases.

It assigns screening indexes for ARS (Automatic Route Selection) call routing on an LN (Leased Network) switch. It assigns separate screening indexes for data and voice calls based upon the switch type, access or via. Up to four LNROUT records may be specified.

A Leased Network switch is "access" if the call originates at the switch, i.e., the call reaches the switch on a trunk belonging to a trunk group defined with LN TYPE "QRY" or "NOQRY" on the TKGRP form (5202 Record), or the call reaches the switch on an ISDN BRI (Basic Rate Interface) line defined with LN TYPE "QRY" or "NOQRY" on the DSLUSR form (5908 Record). The switch is "via" if the call is being routed through a Leased Network toll switch, i.e., the call reaches the switch on an LN Intermachine Trunk, a member of a trunk group defined with LN TYPE "IMT" on the TKGRP form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * LN NODE

Description: The LN NODE specifies the per call switch type, access or via.

Valid LN NODE Entries	
Entry	Definition
ACC	Access
VIA	Via

2.3 * DATA CALL

Description: Is the call a data call? "Y" indicates a data call; "N" indicates a voice call.

Valid Entries: Y, N

2.4 ARS SI

Description: Enter an Automatic Route Screening Index. For Leased Network calls, the ARS SI is used instead of the screening index normally obtained from an ARS form.

Required Field.

Default: 1

Valid Entries: 1 - 16

Data Rules:

The ARS SI must be assigned on an ARSSCRN form (5608-6 Record).

lnrout	5ESS Switch	—
(5322)	OFFICE DATA ADMINISTRATION	
	LEASED NETWORK ROUTING	

*1. LN NODE	ACC
*2. DATA CALL	Y
3. ARS SI	01

Figure 1 SAMPLE LNROUT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3AJ: 5323 RECORD

FLEXIBLE ANI INFORMATION DIGITS ASSIGNMENT FORM - FLEXANI

1. GENERAL

The 5323 Record is available with 5E6 and later Software Releases. This form is associated with the 5ESS Toll Switch feature called FLEXANI (Flexible ANI Information Digits Assignment) feature. The feature allows the assignment of 2-digit ANI pairs to the originating Line Class of Service (via the FLEXANI form), the Route Index (via the RTIDX form, 5303 Record), or the MC Route Index (via the MCRTIDX form, 5304 Record).

Flexible Assignment of 2-digit ANI pairs is a Secured Feature. The Feature must be purchased by the office. The SFSYS form (5713-1 Record) must be entered and the Secured Feature ID 38 must be selected.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.23.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * SERVCL

Description: This field describes originating service and feature handling by Class of Service.

Required Field.

Valid SERVCL Entries	
Entry	Definition
ATND	Software Release: 5E3 and later. Attendant DN.
B911	Software Release: 5E3 and later. Emergency Service Bureau lines for Basic 911 Service.
CALLBK	Software Release: 5E3 and later. Call Back Line associated with the Trunk and Line WorkStation Local Talk and Monitor phone lines.
CHGCALL	Software Release: 5E3 and later. Charge a Call. Provide AN17 to TSPS.
COIN	Software Release: 5E3 and later. Coin.
DAOPER	ISDN Service for OSPS Directory Assistance Operator.
HOTMOTL	Software Release: 5E3 and later. Hotel-Motel - Message Register capabilities. No tolldiversion; provides ANI-6 to TSPS for hotel/motel DN without automatic room ID.
HOTPBX	Software Release: 5E3 and later. Hotel-Motel PBX - Provides ANI-6 to TSPS: checks for TollDiversion, Message Register capabilities, prevents FabricExercise tests.
INDIV	Software Release: 5E3 and later. Individual.
ISATND	Software Release: 5E4(2) and later. ISDN (Integrated Service Digital Network) Attendant Terminal. If this value is entered, then an associated DSMLHLN form (5901 Record) must be defined with a corresponding CKTLCC/RAX and a TERM TYPE of "ATND".

ISDN	Software Release: 5E3 and later. Software Release: 5E3 and later. ISDN Digital Subscriber Line.
LTPCLBCK	Recent Change only. See CALLBK for definition.
MISLINK	OSPS Commercial ACD MIS Data Link.
MODEM	
PBX	Software Release: 5E3 and later. Checks for Toll Diversion, prevents Fabric Exercise tests.
SATSTLN	Software Release: 5E2(2) and later. Stand-Alone Test Line for RSM and Local SM use. This line allows a Switching Module to emulate the Stand-Alone or isolation state during normal operation.
TAOPER	Software Release: 5E4(2) and later. OSPS Toll and Assistance operator VDT.
TEST	Software Release: 5E3 and later. Test Lines.
TWOPTY	Software Release: 5E3 and later. Two Party.
XDB	Software Release: 5E4(2) and later. OSPS External Data Base.
2PTY	Software Release: 5E3 and later. 2-Party Multi-Frequency Ringing.
4PFS	Software Release: 5E3 and later. 4-Party Full Selective.
4PSS	Software Release: 5E3 and later. 4-Party Semi Selective.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX. Allows an entry of "D" or "T" for the OE TYPE field on the Line Form(5109 Record) and MLHLN form (5111 Record).
5PTY	Software Release: 5E3 and later. 5-Party Semi Selective.
8PSS	Software Release: 5E3 and later. 8-Party Semi Selective.
10PTY	Software Release: 5E3 and later. 10-Party Multi-Frequency Ringing.

2.3 # ANI II DIGITS

Description: This field assigns ANI (Automatic Number Identification) pairs to the originating Class of Service.

Required Field.

Valid Entries: 00 - 99

```

                                5ESS Switch
flexani                        OFFICE DATA ADMINISTRATION
(5323)                        FLEXIBLE ANI INFORMATION DIGITS ASSIGNMENT

*1. SERVCL                    INDIV
#2. ANI II DIGITS              02

```

Figure 1 SAMPLE FLEXANI FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3AK: 5324 RECORD NETWORK SERVICES TRIGGER DEFINITION FORM - NSTRIG

1. GENERAL

The 5324 Record is available with 5E8 and later Software Releases.

The Network Services Trigger Definition form identifies a network service application. This form was created primarily for the ASP network service, but can be used by other network services. The form contains alternate STP (Service Transfer Point) network addressing and information for the switch owner's selectable service key.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.35.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * TRIG NBR

Description: Enter the Network Services Trigger Number. This specifies a unique network service for a certain dialed number defined on any of the digit analysis ODP forms (INDIT (5309 Record), LDIT (5300-3/5 Record), MLDIT (5300-3 Record), PDIT (5300-2 Record), and RDIT (5300-7/8 Record)).

Required Field.

Valid Entries:

For 5E8: 1 - 127

For 5E9(1) and later: 1 - 255

2.3 # APPLICATION

Description: Enter the Network Services Trigger application identifying the type of network service to be provided for this trigger number.

Required Field.

Valid APPLICATION Entries	
Entry	Definition
ASP or A	Advanced Services Platform treatment
800 or 8	800 services
E911 or E9	E911 services
EAASP or EAA	Software Release: 5E8 only. Inform Equal Access Originations through the SSP that incoming digits require translation with the ASP dialing plan. The type of trigger associated with this is ASP-subscribed, detected at the EO (NAP) and passed on to the SSP. The call is considered a subscribed trunk origination if a trigger is detected in the ASP dialing plan.
EAOFc or EAO	Inform Equal Access Originations through the SSP that incoming digits require translation in the Office Dialing Plan associated with the incoming trunk. The call may encounter an ASP 3/6/10-digit trigger should an ASP trigger be encountered in the "dialed digit" translation. Note

that ASP trigger detection is not done at the EO, but at the SSP. The call is considered a 3/6/10-digit trigger trunk origination if a trigger is detected in the office dialing plan.

Data Rules:

If APPLICATION is "E911", "EAOFC", or "EAASP" (5E8 only), ALT GBL TITLE and SERV KEY must not be entered.

If APPLICATION is "800", ALT GBL TITLE must not be entered, and SERV KEY must be "CDPN".

For 5E9(1) and later,

- When APPLICATION is "800", ADM ST CD must be "ULK", and AIN REL must be "R0"; an OFCOPT form must exist with SERV SWITCH PT set to "Y".
- When APPLICATION is "ASP", AIN REL must be entered; and
- When APPLICATION is "E911" or "EAOFC", ADM ST CD must be "ULK", and AIN REL must not be entered.

For 5E10 and later, when APPLICATION is not "ASP", SERVICE ALWD and ASP TOLLFREE must not be entered.

2.4 ALT GBL TITLE

Description: Enter the Alternate Global Title. This field is used as a default to route to the appropriate SCP (Service Control Point) database if global title derivation fails. This field is presently used by the ASP application only.

Valid Entries: 10 digits

2.5 SERV KEY

Description: Enter the Service Key. The service key indicates whether the originating ANI or the called party's number is used for service key formulation. This field is presently used by ASP and SSP800 applications.

Valid SERV KEY Entries	
Entry	Definition
CDPN or C	Use the calling party number as the service key.
ANI or A	Use the originating ANI as the service key.

2.6 STP TT NBR

Description: Enter the STP Translation Type Number for this particular trigger. If blank, the Translation Type entered for the field TRANS TYPE on the DSAPP form is used. This field applies only to ASP Release 0.1B and later for triggers for 5E9(1) and later.

Software Release: 5E9(1) and later

Valid Entries: 0 - 255

2.7 ADM ST CD

Description: Enter the Administrative State Code.

Software Release: 5E9(1) and later
 Required Field.
 Default: ULK
 Valid Entries:

Valid ADM ST CD Entries	
Entry	Definition
LK	Lock/deactivate the ASP service trigger.
ULK	Unlock/activate the ASP service trigger.

Data Rules:

If APPLICATION is not "ASP", ADM ST CD must be "ULK".

2.8 AIN REL

Description: Enter the AIN (Advanced Intelligent Network) release for ASP triggers.

Software Release: 5E9(1) and later
 Valid Entries:

Valid AIN REL Entries	
Entry	Definition
R0	Advanced Intelligent Network Release 0.
R0D1	Advanced Intelligent Network Release 0.1.

Data Rules:

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, AIN REL must not equal "R0D1" until SFID 126 ACT on the SFSYS form has been set to "Y".

When AIN REL is "R0D1", SERV KEY must not be entered. When AIN REL is not "R0D1", STP TT NBR must not be entered.

2.9 POST QUERY SCR

Description: Enter the post query screen index.

Software Release: 5E9(1) and later.
 Valid Entries: 1 - 4095

Data Rules:

When POST QUERY SCR is entered, APPLICATION must be "ASP".

For each POST QUERY SCR value entered, a matching SCR value must be entered on the RAR form.

For 5E16(2) FR 2 and later:

when POST QUERY SCR or POST QUERY DAS is entered, APPLICATION must be "ASP" or "MAP".

when USE CURR DAS is "Y", APPLICATION must be "ASP" or "MAP".

When POST QUERY SCR is not entered, both POST QUERY RAX and POST QUERY CODE RESTRICT must be blank or 0.

2.10 POST QUERY RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no POST QUERY RAX, or 1 - 999

2.11 POST QUERY CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) which should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no POST QUERY CODE RESTRICT, or 1 - 125

2.12 ASP TOLLFREE

Description: Is ASP Toll-Free service allowed? This field supports the ASP Toll Free Service feature (SFID 236). For more information on this feature, see Division 2, Section 4A236.

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ASP TOLLFREE is "Y",

- APPLICATION must be "ASP"
- AIN REL must be "R0D1".

ASP Toll-Free Service is a secured feature and must be purchased by the office before data can be assigned. Consequently, ASP TOLLFREE on the NSTRIG form must not be "Y" until SFID 236 ACT on the SFSYS form has been set to "Y".

2.13 SERVICE ALWD

Description: Enter service type allowed for an ASP trigger. This field supports the ASP Interworking with CSD (Circuit Switched Data) feature (SFID 237). For more information on this feature, see Division 2, Section 4A237.

Software Release: 5E10 and later.

Valid Entries:

Valid SERVICE ALWD Entries	
Entry	Definition
BOTH	Both CSD (Circuit Switched Data) and voice service.
CSD	Circuit Switched Data service.
VOICE	Voice Service.

Data Rules:

When SERVICE ALWD is "BOTH" or "CSD",

- APPLICATION must be "ASP"
- AIN REL must be "R0D1".

For 5E10 and later, ASP Interworking with CSD is a secured feature and must be purchased by the office before data can be assigned. Consequently, SERVICE ALWD on the NSTRIG form must not be "CSD" until SFID 237 ACT on the SFSYS form has been set to "Y".

2.14 POST QUERY DAS

Description: Enter the Post Query Digit Analysis Selector.

Software Release: Software Release: 5E10 and later.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When POST QUERY DAS is entered, APPLICATION must be "ASP".

When POST QUERY DAS is entered, the entry must be defined as a DIGIT ANALYSIS SELECTOR on a DAS form (5300-1 Record).

When POST QUERY DAS is entered, LOCAL DIT must be entered on the corresponding DAS form (5300-1 Record), and the LOCAL DIT must be defined as LDIT on the corresponding SMLDIT (5315 Record) form for every operational SM in the office. This is accomplished by entering an SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms (5700-1/2 Record) where EQSTATUS is "O") into the LIST OF SWITCHING MODULES.

The ASP Enhancements to Multiple Rate Center Support feature must be purchased by the office and the SFID 190 ACT field set to "Y" on the SFSYS form (5713-1 Record) before POST QUERY DAS can be entered.

2.15 USE CURR DAS

Description: The USE CURR DAS field is used to specify whether or not the current DAS (Digit Analysis Selector) should be used for post query digit analysis for this trigger. This field only impacts DNTs (Directory Number Triggers). For more information, see Div. 2, Sec. 4A217. Use the current DAS post query?

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When USE CURR DAS is "Y", APPLICATION must be "ASP".

When USE CURR DAS is "Y", POST QUERY DAS must not be entered.

When USE CURR DAS is set to "Y" on the NSTRIG form, the ASP MRC Phase 2 or the Basic LDP (Long Distance Platform) feature must be purchased by the office. An SFSYS form exists with SFID 190 ACT or SFID 165 ACT is set to "Y".

2.16 VPN

Description: Is this a Virtual Private Network trigger?

The VPN field is used to indicate whether or not this is a Virtual Private Network (VPN) trigger. The VPN feature allows the VPN service provider to provision a VPN switch with a new incoming VPN access trunk type and calls received over such a trunk are VPN calls. This allows business subscribers to make long distance calls by use of what appears to them to be their own private network and private network dialing plan. The VPN call is one which encounters a VPN trigger, launches a corresponding SCP query, and (assuming a successful response) generates a VPN AMA record.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When VPN is Y, APPLICATION must be "ASP".

When VPN is Y, AIN REL must be "R0D1".

2.17 DNIS

Description: Is this a DNIS trigger for transport of original dialed number? This field is used to indicate whether or not this is a DNIS trigger for Transport of Original Dialed Number feature.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When DNIS is "Y", APPLICATION must be "800", or APPLICATION must be "ASP" and ASP TOLLFREE must be "Y".

When DNIS is Y, VPN must be N.

When DNIS is "Y", VPN must be "N".

2.18 EON

Description: Proprietary field.

2.19 SATF

Description: Proprietary field.

```

nstrig                                5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5324)                            NETWORK SERVICE TRIGGER DEFINITION

*1. TRIG NBR      _____      13. VPN      N
#2. APPLICATION   _____      14. DNIS     N
  3. ALT GBL TITLE _____      15. EON      N
  4. SERV KEY     _____
  5. STP TT NBR   _____
  6. ADM ST CD    ULK
  7. AIN REL      _____
  8. POST QUERY SCR _____
  9. ASP TOLLFREE N
10. SERVICE ALWD  _____
11. POST QUERY DAS _____
12. USE CURR DAS  N

```

Figure 1 SAMPLE NSTRIG FORM 5E15 SOFTWARE RELEASE

```

nstrig                                5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5324)                            NETWORK SERVICE TRIGGER DEFINITION

*1. TRIG NBR      _____      13. VPN      N
#2. APPLICATION   _____      14. DNIS     N
  3. ALT GBL TITLE _____      15. EON      N
  4. SERV KEY     _____      16. DNT TABLE LOOKUP N
  5. STP TT NBR   _____      17. SATF      N
  6. ADM ST CD    ULK
  7. AIN REL      _____
  8. POST QUERY SCR _____
  9. ASP TOLLFREE N
10. SERVICE ALWD  _____
11. POST QUERY DAS _____
12. USE CURR DAS  N

```

Figure 2 SAMPLE NSTRIG FORM 5E16(1) SOFTWARE RELEASE

```

nstrig                                5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5324)                            NETWORK SERVICE TRIGGER DEFINITION

*1. TRIG NBR      _____      10. POST QUERY SCR      0000
#2. APPLICATION   _____      11. POST QUERY DAS      ____
  3. ALT GBL TITLE _____      12. POST QUERY RAX      ____
  4. SERV KEY     _____      13. POST QUERY CODE RESTRICT 000
  5. STP TT NBR   _____      14. USE CURR DAS      N

```

6. ADM ST CD	ULK	15. VPN	N
7. AIN REL	_____	16. DNIS	N
8. ASP TOLLFREE	N	17. EON	N
9. SERVICE ALWD	_____	18. DNT TABLE LOOKUP	N
		19. SATF SDS	N

Figure 3 SAMPLE NSTRIG FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3AL: 5325 RECORD PROPORTIONATE BIDDING FORM - PROPBID

1. GENERAL

Available with 5E6 and later Software Releases, the PROPBID form allows the customer to create, on a per Proportionate Bidding route index basis, a list of carriers (up to 4) used to route calls sent to the Proportionate Bidding route index from the digit analysis forms. This form specifies the carriers, what percentage of calls each carrier should handle and the route index each carrier uses to route out of the office.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.37.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PB RTI

Description: Enter the proportionate bidding route index. If this feature is not active (ACTIVE set to "N" on this form), PB RTI is used as the ROUTE INDEX for the call. If this feature is active (ACTIVE set to "Y"), calls routed to the PB RTI are distributed to the CARRIERS in the CARRIER LIST and the CARRIER RTI of the selected carrier is used to route the call.

Required Field.

Valid Entries: 1001 - 1032

Data Rules:

PB RTIs must be defined as ROUTE INDEXes on RTIDX forms (5303 Record) with a ROUTE TYPE of "HUNT", "BUSY" or "REORDER".

2.3 ACTIVE

Description: Is proportionate bidding active for this route index? When ACTIVE is "Y", calls routed to the PB RTI will be distributed to the CARRIERS in the CARRIER LIST. When ACTIVE is "N", calls will be routed based on the RTIDX information associated with the PB RTI.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ACTIVE is "Y", at least one non-zero CARRIER LIST PROPORTION must be entered.

CARRIER LIST

Description: The following fields (Section 2.4 - Section 2.6) are used to specify the carrier, the percentage of calls that carrier will handle and the route index each carrier uses to route out of the office.

2.4 CARRIER

Description: Enter the number of a carrier that routes some portion of the calls. This carrier is an arbitrary numerical identifier and not a CARRIER ID number. It does not have to match a CARRIER ID on the ICF form (5305 Record).

Valid Entries: 1 - 999

Data Rules:

When a CARRIER LIST row has CARRIER entered, CARRIER RTI must also be entered.

CARRIER values must be unique within the list.

2.5 PROPORTION

Description: Enter the proportion of calls, in percentage format, that are handled by the carrier.

Valid Entries: 0 - 100 (%)

Data Rules:

When a CARRIER LIST row has PROPORTION entered, CARRIER and CARRIER RTI must also be entered.

When a non-zero PROPORTION has been entered, the sum of all the PROPORTION values must equal 100.

2.6 CARRIER RTI

Description: Enter the "real" route index that is used to route the call to the carrier. This cannot be a Proportionate Bidding route index. It must be a "real" route index that leads to a carrier.

Valid Entries:

For 5E10 and earlier: 1 - 1000 and 1033 - 3617

For 5E11 and later: 1 - 1000 and 1033 - 4095

Data Rules:

When a CARRIER LIST row has CARRIER RTI entered, CARRIER must also be entered.

The CARRIER RTIs must be defined as ROUTE INDEXes on RTIDX forms (5303 Record).

```
propbid          5ESS Switch      _
(5325)           OFFICE DATA ADMINISTRATION
                  PROPORTIONATE BIDDING
```

```
*1. PB RTI 1001
  2. ACTIVE Y
```

4. CARRIER LIST

ROW	CARRIER	PROPORTION	CARRIER RTI

1	1	25	1033
2	2	25	1034
3	3	25	1035
4	4	25	1036

Figure 1 SAMPLE PROPORTIONATE BIDDING FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 3AM: 5328 RECORD LOCATION ROUTING NUMBER TABLE - LRNINDEX

1. GENERAL

The 5328 Record is available with 5E11 and later Software Releases and is used to associate an LRN (Location Routing Number) index to an LRN number. This form supports the Local Number Portability secured feature (SFID 174). For more information on this feature, see Division 2, Section 4A174.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.36.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * LRN INDEX

Description: Enter the Location Routing Number Index for ported lines in this office. The LRN INDEX field is used to specify the index into the LRN table to obtain an LRN (Location Routing Number). LRNs are used to route DNs geographically ported into the office from other switches or within the office from other rate centers.

Software Release: 5E11 and later.

Required Field.

Valid Entries: 1 - 127

2.3 * LRN

Description: Enter the Location Routing Number. The LRN field is used to specify the Location Routing Number associated with the LRN index. LRNs are used to route DNs geographically ported into the office from other switches. An LRN uniquely identifies an office and rate center. To handle geographic portability, offices with multiple rate centers should have more than one LRN.

Software Release: 5E11 and later.

Required Field.

Valid Entries: 1 - 10 digit number.

lrnindex	5ESS Switch	—
(5328)	OFFICE DATA ADMINISTRATION	
	LOCATION ROUTING NUMBER TABLE	

*1. LRN INDEX ____

#2. LRN _____

Figure 1 SAMPLE LOCATION ROUTING NUMBER TABLE FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 3AN: 5030 RECORD CODE RESTRICTION SCREENING - CRTBL

1. GENERAL

This form is made available with the 5E16(2) and later Software Releases and is used to associate key values of code restriction to the rate and route data. It gets the codes that are to be blocked along with the prefix and destination values. This form supports the Rate and Route Translation Simplification - Code Blocking feature (SFID 695). For more information on this feature, see Division 2, Section 4A694.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CODE RESTRICT

Description: This field is used for routing and charging a call.

Software Release: 5E16(2) and later.

Required Field.

Valid Entries: Blank or 0 for no CODE RESTRICT, or enter 1 - 125

2.3 * CDI

Description: This field indicates the carrier destination code index.

Software Release: 5E16(2) and later.

Required Field.

Valid Entries: 0 - 4095

SCRNDATA

These fields (Section 2.4 - Section 2.13) represent the screen index data.

2.4 PFX

Description: This field indicates the prefix being dialed.

Software Release: 5E16(2) and later.

Valid Entries: NONE, 0 or 1

Data Rules:

There can only be one PFX in the list.

2.5 NPA

Description: This field is used to specify the numbering plan area code.

Software Release: 5E16(2) and later.

Valid Entries: 200 - 999

2.6 OFFCOD

Description: This field is used to specify the office code.

Software Release: 5E16(2) and later.

Valid Entries: NXX, 0XX or 1XX

2.7 RTI

Description: This field is used to specify the route index.

Software Release: 5E16(2) and later.

Valid Entries: Blank, or Enter 1 - 16382, or

Valid RTI Entries	
Entry	Definition
REGL	Local exchange call.
OPER/EMER	Operator/Emergency Service call.

2.8 CHGII

Description: This field indicates the charging index used by business and residential customer services.

Software Release: 5E16(2) and later.

Valid Entries: 1 - 2047

2.9 TDV

Description: This field indicates the toll diversion.

Software Release: 5E16(2) and later.

Valid Entries: N, RVB, or ATT

2.10 CST

Description: This field indicates the class of service tone.

Software Release: 5E16(2) and later.

Valid Entries: NONE, HIGH, or LOW

2.11 IECR

Description: This field indicates whether or not the Inter-exchange carrier is restricted.

Software Release: 5E16(2) and later.

Valid Entries: Y, N

2.12 CBLK

Description: This field is used to determine whether the call will be screened for a carrier call.

Software Release: 5E16(2) and later.

Valid Entries: Y, N

Valid RTI Entries	
Entry	Definition
Y	The call will be processed based on data from this view.
N	Call processing will read data associated with the 10.41 view for the CDI from RC view 10.3.

2.13 CONF

Description: This field is used to specify the conflict resolution identification value.

Software Release: 5E16(2) and later.

Valid Entries: Blank, I (INTER), or T (TOLL)

2.14 RMK

Description: This field is used to optionally provide remarks or comments.

Software Release: 5E16(2) and later.

Valid Entries: 16 characters

```

crtbl                                5ESS Switch          —
                                OFFICE DATA ADMINISTRATION
(5030)                            Code restriction screening ( charging )

```

```

*1. CODE RESTRICT ____
*2. CDI                ____

```

```

                                3. SCRNDATA
ROW PFX  NPA OFFCOD RTI   CHGI TDV CST  IECD CBLK CONF
1  ____  ____  ____  ____  ____  ____  ____  ____  ____
2  ____  ____  ____  ____  ____  ____  ____  ____  ____
3  ____  ____  ____  ____  ____  ____  ____  ____  ____

```

```

14. RMK _____

```

Figure 1 SAMPLE CRTBL FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 3AO: 5031 RECORD OPERATOR/EMERGENCY ROUTING ASSIGNMENT - OPEMER

1. GENERAL

This form is made available with the 5E16(2) and later Software Releases and is used to store the multiple routes for 911 and operator services based on the originators RAX (Rate Center). This form supports the Rate and Route Translation Simplification - OPER/EMER Routing feature (SFID 696). For more information on this feature, see Division 2, Section 4A694.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.42.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * DAS

Description: This field indicates the Digit Analysis Selector or tree number for interpreting incoming digits for operator and 911 emergency calls.

Software Release: 5E16(2) and later.

Required Field.

Valid Entries: 0 - 254

Data Rules:

When DAS is equal to 0, OPERATOR RTI and EMERGENCY RTI must be entered and must not be 0.

When DAS is greater than 0, either OPERATOR RTI or EMERGENCY RTI must be greater than 0.

For 5E16(2) FR5 and later, when DAS is equal to 0, OPERATOR RTI and EMERGENCY RTI must be entered, and it must not be 0.

2.3 OPERATOR RTI

Description: This field indicates the route index used for operator routing .

Software Release: 5E16(2) and later.

Required Field.

Default: 0

Valid Entries: Blank, or enter 0 - 16382

2.4 EMERGENCY RTI

Description: This field contains a route index used for emergency routing.

Software Release: 5E16(2) and later.

Required Field.

Default: 0

Valid Entries: Blank, or enter 0 - 16382

2.5 RMK

Description: This field is used to optionally provide remarks or comments.

Software Release: 5E16(2) and later.

Valid Entries: 16 characters

```
opemer                      5ESS Switch
                           OFFICE DATA ADMINISTRATION
(5031)                     OPERATOR/EMERGENCY ROUTING ASSIGNMENT

*1. DAS                    _____
2. OPERATOR RTI  00000
3. EMERGENCY RTI 00000
4. RMK            _____
```

Figure 1 SAMPLE OPEMER FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 4: OPERATOR SERVICES POSITION SYSTEM FORMS

SEC. 4A: 5400-1/2 RECORD

OSPS ADMINISTRATIVE OFFICE PARAMETERS FORM - OPARM

1. GENERAL

The 5400-1/2 Record is available with 5E4(2) and later Software Releases.

This record is used to define administrative parameters of an OSPS (Operator Services Position System), including type of equipment, displays and reports, and the assignment of serving teams.

One 5ESS Switch can support 8 FMCs (Force Management Centers), 32 OSCs (Operator Service Centers), and 1024 active operator positions. No more than 4 OSCs can be assigned to the same SM (Switching Module). Either of two interfaces, an ATA (Asynchronous Terminal Adapter) or an STA (Synchronous Terminal Adapter), can be used with FMCs, which employ AT&T 3B2 Computers.

An OSPS office can generate reports at 15-minute and 24-hour intervals, (including the reports of another office).

If an OPARM form is submitted, an OSPSOPT form (5424 Record) must exist with "Y" entered in the OSPS DA or OSPS TA field.

Each OPARM form must have an associated OSPSDSL form (5411 Record) such that the value in the LCEN field matches the LCEN value on the OPARM form and the SERVICE CLASS field on the OSPSDSL form except, for 5E7 and later, when the LCEN is 19200000.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.1.

2. FORM ENTRIES - 5400-2 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and office name on each record.

2.2 * OFFICE TYPE

Description: Enter the office type.

Required Field.

Valid OFFICE TYPE Entries	
Entry	Definition
O	OSC (Operator Service Centers).
F	FMC (Force Management Centers).

Data Rules:

If OFFICE TYPE is "F", then:

- OFFICE NUMBER must be in the range of 1 - 8.
- MADE BUSY THR must be 6.

- SPCL RPTS TO FMC must be "N".

When an OPARM form has an OFFICE TYPE of "F" and 24 HR OP AUTO SEND is set to "Y", then 24 HR OP AUTO SEND cannot be set to "Y" on any other OPARM form for the same PSM, i.e. the first 3 digits of the LCEN are identical.

2.3 * OFFICE NUMBER

Description: Enter the Office Number, 1 through 8 for FMC, or 1 through 32 for OSC.

Required Field.

Valid Entries: 1 - 32

2.4 LCEN

Description: Enter the 8-digit RISLU (Remote Integrated Services Line Unit) LCEN (Line Card Equipment Number) according to the following format.

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Remote Integrated Services Line Unit	RISLU		0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	00-30 (even numbers only)

Required Field.

Data Rules:

Duplicate LCENs may not be assigned.

For 5E7 and later, if LCEN is 19200000 then:

- 15 MIN PART1 ALLOWED must be "N"
- 15 MIN PART2 ALLOWED must be "N"
- 15 MIN PART3 ALLOWED must be "N"
- 24 HR OP ALLOWED must be "N"
- CALL QUEUE DISPLAY must be "N"
- FMC REPORT PERM must not be entered
- OFFICE TYPE must not be "F"
- OPER PERF DISPLAY must be "N"
- OSC 1-32 REPORT PERM must not be entered
- POS STATUS DISPLAY must be "N"
- SERV TEAM DISPLAY must be "N"

- SERVING TEAMS 1 - 128 cannot be "Y".

For 5E7 and later, an OSPSDSL form must be submitted with an LCEN that matches the LCEN on this OPARM form, except when the LCEN is 19200000.

For 5E7 and later, LCEN cannot be 19200000 on the OPARM form if a corresponding OTRVLD form(s) (matching OFFICE TYPE and OFFICE NUMBER) is submitted.

2.5 SERVICE CLASS

Description: Enter the service class requiring OSPS parameters.

Software Release: 5E7 and later.

Required Field for 5E7 - 5E8.

Valid Entries:

Valid SERVICE CLASS Entries	
Entry	Definition
MISLNK	OSPS Commercial ACD Data Link
OAP	OSPS Administrative Processor

Data Rules:

If "MISLNK" is entered, then:

- 15 MIN PART1 ALLOWED must be N.
- 15 MIN PART2 ALLOWED must be N.
- 15 MIN PART3 ALLOWED must be N.
- 24 HR OP ALLOWED must be "N".
- ATA LINK must be Y.
- CALL QUEUE DISPLAY must be N.
- FMC - FORCE REPORT must not be entered.
- FMC REPORT PERM must not be entered.
- OPER PERF DISPLAY must be N.
- OSC 1-32 REPORT PERM must not be entered.
- POS STATUS DISPLAY must be N.
- SERV TEAM DISPLAY must be N.
- SPCL RPTS TO FMC must be N.
- SERVING TEAMS 1-128 must not be entered.

The SERVICE CLASSes on corresponding OPARM and OSPSDSL forms (where the LCENs match) must be

the same.

2.6 MADE BUSY THR

Description: The Made Busy Threshold is the number of times within one minute that an operator is allowed to be detected as "made busy" before they are considered "delinquent": 0 - 5 for OSCs, and 6 assigned to FMCs.

Required Field.

Valid Entries: 0 - 6

2.7 SPCL RPTS TO FMC

Description: Should special reports be forwarded to the OAP of FMC?

The Special Reports To Force Management Center Office field indicates whether an OSC (Operator Service Center) office wishes to forward its special reports (manual tickets, emergency call warnings, monitoring call detail records, and emergency call records) to the OAP of its FMC, as defined by the field FMC. "N" is entered for an OSC office that wishes to print its special reports only at its own OAP. "Y" indicates that an OSC office wishes the special reports to be printed at both its own OAP and the OAP of its FMC.

Prior to 5E7, SPCL RPTS TO FMC and ATA LINK fields were combined as one field, OFC DATA LINK TYPE.

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When OFFICE TYPE is "F", SPCL RPTS TO FMC must be "N".

SPCL RPTS TO FMC must be "N" when SERVICE CLASS is "MISLNK".

2.8 ATA LINK

Description: Is the link to OAP an asynchronous terminal adapter?

ATA LINK indicates whether the link to the OAP is connected via an ATA (Asynchronous Terminal Adapter). If not, then it is assumed to be an STA (Synchronous Terminal Adapter). Prior to 5E7, SPCL RPTS TO FMC and ATA LINK fields were combined as one field, OFC DATA LINK TYPE.

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

ATA LINK must be "Y" when SERVICE CLASS is "MISLNK".

2.9 MONITOR INDICATION

Description: If this is an OSC office, is an indication to be given to operators that they are being monitored?

Default: N
Valid Entries: Y, N

2.10 CALL QUEUE DISPLAY

Description: Can the OSPS office request the call queue status and performance displays? An entry of "Y" will enable these displays.

The CALL QUEUE DISPLAY consists of a status display and a performance display.

The call queue status display indicates the status of various queues; it displays whether a particular queue is "normal", receiving delay announcements 1, 2 or 3, receiving announcements to reorder, the queue is closed, and the number of calls waiting.

The call queue performance display indicates the average length of time a call is in the queue.

Required Field.
Default: N

Data Rules:

An OAP (OSPS Administrative Processor) must be assigned to the OSC for that center to request the CALL QUEUE DISPLAY; the SERVICE CLASS on the corresponding (by LCEN) OSPSDSL form must be designated as "OAP".

2.11 SERV TEAM DISPLAY

Description: Can the OSPS office request the serving team status and performance displays?

The serving team status display indicates what the worst queue is (in terms of time in queue before an operator is available), and what the status is of that queue (for a serving team).

The serving team performance display provides the serving team number, work time, average delay, and the number of positions occupied (for a particular serving team).

Required Field.
Default: N

Data Rules:

An OAP must be assigned to the OSC for that center to request the SERV TEAM DISPLAY; the SERVICE CLASS on the corresponding (by LCEN) OSPSDSL form must be designated as "OAP".

2.12 POS STATUS DISPLAY

Description: Can the OSPS office request this display?

The POS STATUS DISPLAY consists of a bar graph of requested serving teams with the following three states: the number of operators handling calls, the number of idle operators, the number of operators made busy, as well as the percentages of these states. Also, the display provides the number of occupied positions, and the number of operators with a high frequency of made busy status.

Required Field.
Default: N

Data Rules:

An OAP must be assigned to the OSC for that center to request the POS STATUS DISPLAY; the SERVICE CLASS on the corresponding (by LCEN) OSPSDSL form must be designated as "OAP".

2.13 OPER PERF DISPLAY

Description: Can the OSPS office request this display?

The OPER PERF DISPLAY provides information on an individual operator basis, such as the number of calls handled, average call handling time, and whether individual operators have access to operator-to-position assignment or position-to-operator assignment displays.

Required Field.

Default: N

Data Rules:

An OAP must be assigned to the OSC for that center to request the OPER PERF DISPLAY; the SERVICE CLASS on the corresponding (by LCEN) OSPSDSL form must be designated as "OAP".

An OAP must be assigned to the OSC for that center to request any of the above displays. The SERVICE CLASS on the corresponding (by LCEN) OSPSDSL form must be designated as "OAP".

2.14 OFC DATA LINK TYPE

Description: The entry is a combination of the type of data link and whether or not special reports can be sent to the owning FMC.

For 5E7 and later, this field was divided into two fields, SPCL RPTS TO FMC and ATA LINK.

The data link is either an ATA (Asynchronous Terminal Adaptor) or an STA (Synchronous Terminal Adaptor).

Special Reports have four components:

- Emergency call warning - indicates the operator has received an emergency call.
- Manual ticket - contains billing information on a call.
- Emergency call record - contains complete details on an emergency call.
- Call detail record - contains complete details on a call.

The following table summarizes the entries for this field.

Entry	Special Reports	Link Type
0	N	ATA
1	N	STA
2	Y	ATA
3	Y	STA

Software Release: 5E4(2) - 5E6

Default: 0

Valid Entries: 0 - 3

Data Rules:

If "F" is entered in the OFFICE TYPE field or no entry is made in the FMC - FORCE REPORT field, then only entries of 0 or 1 are allowed.

OSPS REPORTS

The following fields (Section 2.15 - Section 2.30) permit various reports to be received or received and printed for an OSPS office.

If an ALLOW field is marked "N", then the corresponding PRINT field will be assigned a value of "N".

2.15 15 MIN PART1 ALLOW

Description: Can this OSPS office receive this portion of the 15-minute report? Part one of the 15-minute report provides a traffic summary.

Software Release: 5E6 and earlier.

Required Field.

Default: N

Valid Entries: Y, N

2.16 15 MIN PART2 ALLOW

Description: Can this OSPS office receive this portion of the 15-minute report? Part two of the 15-minute report provides a call queue summary.

Software Release: 5E6 and earlier.

Required Field.

Default: N

Valid Entries: Y, N

2.17 15 MIN PART3 ALLOW

Description: Can this OSPS office receive this portion of the 15-minute report. Part three of the 15-minute report provides a serving team summary.

Software Release: 5E6 and earlier.

Required Field.

Default: N

Valid Entries: Y, N

2.18 24 HOUR ALLOW

Description: Can this OSPS office receive the 24-hour report? The 24-hour report provides information about individual operators.

Software Release: 5E6 and earlier.

Required Field.

Default: N

Valid Entries: Y, N

2.19 15 MIN PART1 PRINT

Description: Can this OSPS office print this portion of the 15-minute report?

Software Release: 5E6 and earlier.

Default: N

Valid Entries: Y, N

2.20 15 MIN PART2 PRINT

Description: Can this OSPS office print this portion of the 15-minute report?

Software Release: 5E6 and earlier.

Default: N

Valid Entries: Y, N

2.21 15 MIN PART3 PRINT

Description: Can this OSPS office print this portion of the 15-minute report?

Software Release: 5E6 and earlier.

Default: N

Valid Entries: Y, N

2.22 24 HOUR PRINT

Description: Can this OSPS office print the 24-hour report?

Software Release: 5E6 and earlier.

Default: N

Valid Entries: Y, N

2.23 15 MIN PART1 ALLOWED

Description: Should Part 1 of the 15 minute report be allowed?

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

15 MIN PART1 ALLOWED must be "N" when:

- LCEN is 19200000.
- SERVICE CLASS is "MISLNK".

15 MIN PART1 AUTO SEND must be "N" when 15 MIN PART1 ALLOWED is "N".

2.24 15 MIN PART1 AUTO SEND

Description: Should Part 1 of the 15 minute report be sent automatically?

Software Release: 5E7 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

15 MIN PART1 AUTO SEND must be "N" when 15 MIN PART1 ALLOWED is "N".

2.25 15 MIN PART2 ALLOWED

Description: Should Part 2 of the 15 minute report be allowed?

Software Release: 5E7 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

15 MIN PART2 ALLOWED must be "N" when:

- LCEN is 19200000.
- SERVICE CLASS is "MISLNK".

15 MIN PART2 AUTO SEND must be "N", when 15 MIN PART2 ALLOWED is "N".

2.26 15 MIN PART2 AUTO SEND

Description: Should Part 2 of the 15 minute report be sent automatically?

Software Release: 5E7 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

15 MIN PART2 AUTO SEND must be "N" when 15 MIN PART2 ALLOWED is "N".

2.27 15 MIN PART3 ALLOWED

Description: Should Part 3 of the 15 minute report be allowed?

Software Release: 5E7 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

15 MIN PART3 must be "N" when:

- LCEN is 19200000
- SERVICE CLASS is "MISLNK".

15 MIN PART3 AUTO SEND must be "N" when 15 MIN PART3 ALLOWED is "N".

2.28 15 MIN PART3 AUTO SEND

Description: Should Part 3 of the 15 minute report be sent automatically?

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

15 MIN PART3 AUTO SEND must be "N" when 15 MIN PART3 ALLOWED is "N".

2.29 24 HR OP ALLOWED

Description: Should the 24 hour operator report be allowed?

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

24 HR OP ALLOWED must be "N" when:

- LCEN is 19200000.
- SERVICE CLASS is "MISLNK".

24 HR OP AUTO SEND must be "N" when 24 HR OP ALLOWED is "N".

2.30 24 HR OP AUTO SEND

Description: Should the 24 hour operator report be sent automatically?

Software Release: 5E7 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

24 HR OP AUTO SEND must be "N" when 24 HR OP ALLOWED is "N".

3. FORM ENTRIES - 5400-2 RECORD

3.1 FMC - FORCE REPORT

Description: Enter the FMC office number that receives the force reports and (optionally) tickets for printing on the OAP for this OSPS office.

Valid Entries: 1 - 8

Data Rules:

The value entered in this field must be entered in the OFFICE NUMBER field on another OPARM form where the entry in the OFFICE TYPE field is "F".

If "F" was entered in the OFFICE TYPE field, then this field will be blank.

3.2 FMC REPORT PERM

Description: Can each FMC (1 - 8) obtain report/display information? If an FMC can receive the information, enter "Y".

Valid Entries: Y, N

Data Rules:

An OPARM form must exist for each FMC that has "Y" entered in this field.

3.3 OSC REPORT PERM

Description: Can each OSC (1 - 32) obtain report/display information? If an OSC can receive the information, enter "Y".

Valid Entries: Y, N

Data Rules:

An OPARM form must be completed for each OSC that has "Y" entered in this field.

3.4 SERVING TEAM

Description: Is each serving team (1 - 128) represented in this OSPS office? If the serving team is assigned, enter "Y". An FMC/OSC is usually assigned 1 or more serving teams.

Valid Entries: Y, N

Data Rules:

An STINFO form (5402 Record) must be completed for each serving team designated in this field.

SCREEN 1 of 2

oparm

(5400-1/2)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OFFICE PARAMETERS

* 1. OFFICE TYPE	O	REPORTS	
* 2. OFFICE NUMBER	16	-----	
3. LCEN	00100218	11. 15 MIN PART1 ALLOW	Y
4. MADE BUSY THR	2	12. 15 MIN PART2 ALLOW	Y

5. MONITOR INDICATION	Y	13. 15 MIN PART3 ALLOW	Y
6. CALL QUEUE DISPLAY	N	14. 24 HOUR ALLOW	Y
7. SERV TEAM DISPLAY	Y	15. 15 MIN PART1 PRINT	Y
8. POS STATUS DISPLAY	Y	16. 15 MIN PART2 PRINT	Y
9. OPER PERF DISPLAY	Y	17. 15 MIN PART3 PRINT	Y
10. OFC DATA LINK TYPE	0	18. 24 HOUR PRINT	Y

SCREEN 2 of 2

oparm

5ESS Switch

—

OFFICE DATA ADMINISTRATION

OSPS OFFICE PARAMETERS

19. FMC - FORCE REPORT	2		1234567890
		25. SERVING TEAM 1-10	_____
	12345678	26. SERVING TEAM 11-20	_____
20. FMC REPORT PERM	YYYYYYYY	27. SERVING TEAM 21-30	YYYYYYYYYY
		28. SERVING TEAM 31-40	_____
	1234567890	29. SERVING TEAM 41-50	_____
21. OSC 1-10 REPORT PERM	NNYYYYYYYY	30. SERVING TEAM 51-60	_____
22. OSC 11-20 REPORT PERM	_____	31. SERVING TEAM 61-70	_____
23. OSC 21-30 REPORT PERM	_____	32. SERVING TEAM 71-80	_____
24. OSC 31-32 REPORT PERM	___	33. SERVING TEAM 81-90	_____
		34. SERVING TEAM 91-100	_____
		35. SERVING TEAM 101-110	_____
		36. SERVING TEAM 111-120	_____
		37. SERVING TEAM 121-128	_____

Figure 1 SAMPLE OPARM FORM 5E5 -5E6 LATER SOFTWARE RELEASES

SCREEN 1 of 2

oparm

(5400-1/2)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OFFICE PARAMETERS

		OSPS REPORTS
* 1. OFFICE TYPE	—	
* 2. OFFICE NUMBER	___	13. 15 MIN PART1 ALLOWED N
#3. LCEN	_____	14. 15 MIN PART1 AUTO SEND N
#4. SERVICE CLASS	_____	15. 15 MIN PART2 ALLOWED N
#5. MADE BUSY THR	—	16. 15 MIN PART2 AUTO SEND N
6. SPCL RPTS TO FMC	N	17. 15 MIN PART3 ALLOWED N
7. ATA LINK	Y	18. 15 MIN PART3 AUTO SEND N
8. MONITOR INDICATION	N	19. 24 HR OP ALLOWED N
9. CALL QUEUE DISPLAY	N	20. 24 HR OP AUTO SEND N
10. SERV TEAM DISPLAY	N	
11. POS STATUS DISPLAY	N	
12. OPER PERF DISPLAY	N	

SCREEN 2 of 2

oparm

5ESS Switch

—

OFFICE DATA ADMINISTRATION

OSPS OFFICE PARAMETERS

21. FMC - FORCE REPORT	—		1234567890
	12345678	27. SERVING TEAM 1-10	_____
22. FMC REPORT PERM	_____	28. SERVING TEAM 11-20	_____
	1234567890	29. SERVING TEAM 21-30	_____
23. OSC 1-10 REPORT PERM	_____	30. SERVING TEAM 31-40	_____
24. OSC 11-20 REPORT PERM	_____	31. SERVING TEAM 41-50	_____
25. OSC 21-30 REPORT PERM	_____	32. SERVING TEAM 51-60	_____
26. OSC 31-32 REPORT PERM	_____	33. SERVING TEAM 61-70	_____
		34. SERVING TEAM 71-80	_____
		35. SERVING TEAM 81-90	_____
		36. SERVING TEAM 91-100	_____
		37. SERVING TEAM 101-110	_____
		38. SERVING TEAM 111-120	_____
		39. SERVING TEAM 121-128	_____

Figure 2 SAMPLE OPARM FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4B: 5401 RECORD

OSPS OPERATOR POSITION FORM - OSPSOP

1. GENERAL

The 5401 Record is available with 5E3 and later Software Releases. This record defines each operator position within an OSC (Operator Service Center) within the OSPS, and assigns RISLU (Remote Integrated Service Line Unit) ports. A maximum of 100 operator positions can be assigned to the same SM (Switching Module). For 5E6 and later Software Releases, a maximum of 200 operator positions can be assigned to the same SM for CACD.

For 5E7 and later, every SM having a regular or interflow position assigned to it on the OSPSOP form must have "Y" entered in the OSPS PSM field on the corresponding EQIM form. The SM number on the EQIM form matches the first three digits of the LCEN or DEN field on the OSPSOP form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.32.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * POS NUM

Description: The POS NUM field defines the Absolute position number for the switch. While each OSC can assign its Relative Position Numbers independently, the POS NUM (absolute position number) must be unique within the OSPS.

Required Field.

Valid Entries: 1 - 4095

2.3 # POS TYPE

Description: Enter the type of operator position.

Required Field.

Valid POS TYPE Entries	
Entry	Definition
BST	Directory Assistance Operator or ACD/MIS Agent
INT	Interflow Position. For more information on interflow, see OSPS feature sections in Division 2, Section 3. Also see secured feature sections in Division 2, Section 4A.
OPT	Software Release: 5E6 and later. Listing Services and combined services.

Data Rules:

If "BST" "OPT" or "VDT" are entered in the POS TYPE field, then entries are required in the LCEN, OFC ID and REL PNUM fields. Also, the DEN and OSPS ID fields must not be entered.

For 5E10 and later, if "BST" or "OPT" is entered, then LCEN, OFC ID and REL PNUM must be entered.

BST:

For 5E9(1) and later, if "BST" is entered, then SERVICE CLASS must be "DAOPER" on the corresponding OSPSDSL form (matching LCENs).

INT:

If "INT" is entered in the POS TYPE field, then entries are not allowed in the LCEN, OFC ID and REL PNUM fields, and "N" must be entered in the MON POS field. Also, the DEN and OSPS ID fields must contain entries.

OPT:

For 5E9(1) and later, if "OPT" is entered, then SERVICE CLASS must be "TAOPER" on the corresponding OSPSDSL form (matching LCENs).

OPERATOR POS

The following fields (Section 2.4 - Section 2.8) define operator position fields.

2.4 LCEN

Description: Enter the RISLU LCEN (Line Card Equipment Number) for this operator position.

Valid Entries: An 8-digit LCEN in the following format.

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
(Remote) Integrated Services Line Unit	(R)ISLU		0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	00-31

Data Rules:

The entries in this field must be unique.

This field must be left blank if interflow position is selected.

Entries in this field must exist on an OSPSDSL form (5411 Record). The SERVICE CLASS for each of these entries on the OSPSDSL form must be "DAOPER" or "TAOPER".

Any LCEN entered must be on a Line Card specified on the ISLULC form with an EQST (Equipment Status) of Operational ("O").

For 5E7 and later, "Y" must be entered in the OSPS PSM field on the corresponding EQIM form. The SM number on the EQIM form matches the first three digits of the LCEN or DEN field on this form.

2.5 OFC ID

Description: Enter an OSPS FMC/OSC (Force Management Center / Operator Service Center) Office Number.

Valid Entries:

FMC: 1 - 8

OSC: 1 - 32

Data Rules:

This field is required for an operator position type and must be left blank when interflow position is selected. Entries in this field must be defined on an OPARM form (5400-1/2 Record).

The combination of OFC ID and REL PNUM on the OSPSOP form must be unique.

For 5E8 and later, at most four different OFC ID values can be entered on OSPSOP forms having the same first three digits on their LCEN fields that specify the same SM.

2.6 REL PNUM

Description: Enter a unique Relative Position number of the operator position within the OSC.

Valid Entries: 1 - 4095

Data Rules:

For interflow position, this must be left blank.

The combination of OFC ID and REL PNUM values must be unique, i.e., within each OSC or FMC, the REL PNUM entries must be unique. The following two examples illustrate possible approaches:

Example 1:

POS NUMBER	OFC NUMBER	REL POS NUMBER
1	1	1
2	1	2
3	1	3
4	2	1
5	2	2
6	2	3

Example 2:

POS NUMBER	OSC NUMBER	REL POS NUMBER
1	1	1
2	1	2
3	1	3
4	2	4
5	2	5
6	2	6

2.7 MON POS

Enter "Y" Description: Is this operator position used for monitoring?

Data Rules:

The entry must be "N" if interflow position is selected.

2.8 CST INTERFACE

Description: Enter the vendor for the CST (Combined Services Terminal) software. This field is used to provision the Recognition of Customer Provided Terminal. For more information on this feature see Division 2, Section 3C on OSPS Listing Services.

Software Release: 5E9(1) and later

Valid Entries:

Valid CST INTERFACE Entries

Entry	Definition
IBM	Interface used for IBM

VDR	Interface used for Volt Delta

Data Rules:

If this field is entered, POS TYPE must be "OPT".

The total number of OSPSOP forms with an entry in the CST INTERFACE field cannot be greater than the value of MAX DUAL PORT CST field on the OSPSOP form (5424 Record)

INTERFLOW POS

The following fields (Section 2.9 - Section 2.10) define Interflow position fields. For more information on Interflow see Division 2, Section 3A, 3B, 3C, 3D, 3H, and 3I.

2.9 DEN

Description: Enter the DEN (Digital Equipment Number) for this Interflow position associated with B-channels on the OSPS EDSL.

Valid Entries: An 8-digit DEN in the following format.

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001 - 192
Digital Line Trunk Unit	DLTU		0 - 5
Digital Facility Interface	DFI	XX	01 - 10
Digital Channel	BCHAN	XX	01 - 23 or 25 - 47

Data Rules:

This field must be entered for an interflow position (POS TYPE is "INT") and must not be entered if the operator position is selected (POS TYPE is "OPT", "VDT", or "BST").

Each DEN entered on an OSPSOP form must be unique and must be defined on a TRUNK form (5204 Record). In addition, the related TGN (on the TRUNK form) must be defined on a TKGRP form (5202 Record) with a corresponding TRK DIR of "OUT" and a TRKCLS of "IFOPER".

For 5E7 and later, "Y" must be entered in the OSPS PSM field on the corresponding EQIM form. The SM number on the EQIM form matches the first three digits of the LCEN or DEN field on this form.

2.10 OSPS ID

Description: Enter the OSPS ID number of the receiving interflow switch.

Valid Entries: 1 - 9999

Data Rules:

This field must be entered if POS TYPE is set to "INT" and must be left blank if POS TYPE is "OPT", "BST", or "VDT".

OSPS IDs entered on the OSPSOP form must be defined on an INFLTADP form (5452 Record) along with the B-channel and D-channel trunk group numbers.

ACD/BRCS

For 5E9(1) - 5E10, the following fields (Section 2.11 - Section 2.13) are Recent Change Verify fields for the ACD/BRCS feature. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121. The ACD/BRCS data has been moved to forms in Division 4, Section 32.

2.11 ACD LCEN

Description: For 5E9(1) - 5E10, this is a Recent Change Verify only field which displays the line card equipment number associated with an ACD/BRCS Position TN on the 21.32 view. The valid entry is an 8-digit LCEN in the following format:

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
(Remote) Integrated Services Line Unit	(R)ISLU		0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	00-31

Data Rules:

This entry must equal an LCEN from view 23.2 or 23.8. In view 23.2 or 23.8, the field ACD POS NUM must not be 0.

2.12 ACD POS TN

Description: For 5E9(1) - 5E10, this is a Recent Change Verify only field which displays the ACD (Automatic Call Distributor) position telephone number on the 21.32 view. The valid entry is a 7-digit telephone number.

2.13 TGID

Description: For 5E9(1) - 5E10, this is a Recent Change Verify only field which displays the TGID (Terminal Group Identifier) for the ACD/BRCS serving team positions on the 21.32 view. The valid entries are 1 - 65535, or blank.

```

osp sop                                5ESS Switch          —
(5401)                                OFFICE DATA ADMINISTRATION
                                      OPERATOR POSITION
  
```

```

*1. POS NUM  0145
#2. POS TYPE INT
  
```

```

          OPERATOR POS                INTERFLOW POS
3. LCEN      _____            8. DEN      01300223
4. OFC ID    _____            9. OSPS ID  5040
5. REL PNUM  _____
6. MON POS   N
7. CST INTERFACE _____

          ACD/BRCS
          ACD LCEN
          ACD POS TN
          TGID
  
```

Figure 1 SAMPLE OSPSOP FORM 5E9(1) AND LATER SOFTWARE RELEASES

ospsop
(5401)

5ESS Switch —
OFFICE DATA ADMINISTRATION
OSPS OPERATOR POSITION

*1. POS NUM _____
#2. POS TYPE _____

OPERATOR POS		INTERFLOW POS	
3. LCEN	_____	8. DEN	_____
4. OFC ID	____	9. OSPS ID	_____
5. REL PNUM	_____		
6. MON POS	N		
7. CST INTERFACE	_____		

Figure 2 SAMPLE OSPSOP FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4C: 5402 RECORD OSPS SERVING TEAM INFORMATION FORM - STINFO

1. GENERAL

The 5402 Record is available with 5E3 and later Software Releases. This record provides information about a serving team. A serving team is a group of operator positions that services one or more call types.

For 5E9(1) - 5E10, only the following fields are applicable to the ACD/BRCS feature:

- AFTER CALL WK
- AUTO CALL DIST?
- E911 PSAP
- #EMRG CONF ALLOW
- EMRG CONF CALL TYPE
- INTRAFLOW ALW
- LIVE MIKE
- MUSIC SELCTD
- OPER TYPE
- PCT INTRAFLOW
- SERVING TEAM
- SERVICE ATTN CALL TYPE
- TGID
- WARN TONE

For 5E11 and later, these fields were moved to the STPARM form (5638 Record).

1.1 Recent Change View

The corresponding Recent Change View for STINFO is 21.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *SERVING TEAM

Description: Enter the number of the serving team that will service this call type.

Required Field.

Valid Entries: 1 - 128.

Data Rules:

When the SERVING TEAM entry on this form matches a SUP TEAM in the SUPPORT TEAM LIST on an OSPSCT form, then the OPER TYPE entry on this form must match the OPER TYPE on the OSPSCT form (5404 Record), and the AUTO CALL DIST? entry on this form must match the AUTO CALL DIST entry on the OSPSCT form.

2.3 #OPER TYPE

Description: Enter the Type of Operator.

Software Release: 5E4(2) and later

Required Field.

Valid Entries:

Valid OPER TYPE Entries	
Entry	Definition
DA	Directory Assistance
TA	Toll And Assistance

Data Rules:

When OPER TYPE is "TA", the following assignments will be made by ODA (Office Data Administration):

Assignments Made By ODA	
Field	Value
CARRIER DIAL PERM	DENY
CARRIER ID	blank
DAS/C AVAILABLE	N
DIALING PERM INDEX	blank
EMRG CONF ALLOW	N
EXTERNAL DIALING PERM	UNRES
SEC DIG ANALYSIS SEL	0

If "DA" is entered in the OPER TYPE field, then "N" must be entered in both the NON ISP AND TA and NON ISP ONLY fields.

2.4 SERVICE ATTN CALL TYPE

Description: If the serving team is allowed to conference with a service assistant, enter the service assistant's call type.

Valid Entries: 1 - 128

Data Rules:

Each entry in this field must be defined in the OSPS CALL TYPE field on an OSPSCT form (5404 Record). Additionally, the OPER TYPE must match the OPER TYPE on the OSPSCT form.

2.5 #EXTERNAL DIALING PERM

Description: Enter the external dialing permission for the serving team.

Required Field.

Default Value: DENY

Valid EXTERNAL DIALING PERM Entries	
Entry	Definition
DENY	Denied external dialing
UNRES	Unrestricted external dialing
RES	Restricted external dialing

Data Rules:

If an OSPSOA form (5403 Record) exists whose SERVING TEAM entry is the same as the SERVING TEAM entry on this STINFO form and the OSPSOA form has a value of "RES" entered in the EXTERNAL DIALING PERM field, then this STINFO form must have a value of "RES" or "UNRES" in the EXTERNAL DIALING

PERM field and a value entered in the DIALING PERM INDEX field.

When EXTERNAL DIALING PERM is "UNRES" on this form and "RES" on the corresponding OSPSOA form, then DIALING PERM INDEX must be entered on this form. The corresponding OSPSOA form is found by matching SERVING TEAM on this form with the SERVING TEAM on the OSPSOA form.

2.6 DIALING PERM INDEX

Description: Enter the external dialing permission index.

Valid Entries: 1 - 64

Data Rules:

If "RES" was entered in the EXTERNAL DIAL PERM field, enter the external dialing permission index for this serving team.

Each entry in this field must be defined on the RESXDL form (5409 Record).

2.7 #EMRG CONF ALLOW

Description: Can the serving team conference emergency calls?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E6 and later, if OPER TYPE is "TA", then this field must be set to "N".

2.8 EMRG CONF CALL TYPE

Description: Enter the emergency conference call type, if "Y" was entered in the EMRG CONF ALLOW field.

Valid Entries: 1 - 128

Data Rules:

If "N" was entered in the EMERG CONF ALLOW field, no entry is allowed in this field.

Each entry in this field must be defined in the OSPS CALL TYPE field on an OSPSCT form (5404 Record). Additionally, the OPER TYPE must match the OPER TYPE on the OSPSCT form.

2.9 #DAS/C AVAILABLE

Description: Does the serving team have a DAS/C (Directory Assistance System Computer)?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

"N" must be entered in this field if "NONE" is entered in the DAS/C VENDOR field or DAS/C VENDOR field is not entered on the OSPSOPT form (5424 Record).

2.10 CARRIER ID

Description: Enter the carrier identification used by this serving team for outgoing interLATA (Local Access and Transport Area) calls.

Valid Entries:

For 5E3 - 5E8: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

An ICF form (5303 Record) with FEAT GRP equal to "D" must be completed for each carrier identified in this field.

2.11 HANDOFF ALLOWED

Description: May operators transfer calls to other operators within the same service team.

Default: Y

Valid Entries: Y, N

2.12 TRANSFER ALLOWED

Description: May operators transfer calls to positions outside the service team.

Default: Y

Valid Entries: Y, N

2.13 CONF TRANS ALLOWED

Description: May operators conference to other operators.

Default: N

Valid Entries: Y, N

2.14 #SCREEN INDEX

Description: The screen index field indicates the routing of calls to trunks on outgoing calls.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

Each SCREEN INDEX entered on this form must exist on a RAR form (5301 Record).

2.15 #DIG ANALYSIS SEL

Description: This field determines the originating table for digital analysis of dialed numbers. This field does not affect ACD/BRCS, however, it is a required field and must be entered. Therefore, it is recommended for ACD/BRCS to follow data rules for an entry in this field, although ACD/BRCS will not use this entry.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

Each Digit Analysis Selector value entered on this form must exist on a DAS form (5300-1 Record).

2.16 SEC DIG ANALYSIS SEL

Description: The SEC DIG ANALYSIS SEL field is used for operator special dial codes.

Default: 0

Valid Entries: 0 - 254

For 5E14 and earlier: 0 - 99

For 5E15 and later: 0 - 254

Data Rules:

Each Secondary Digit Analysis Selector value greater than 0 entered on this form must exist on a DAS form.

2.17 CARRIER DIAL PERM

Description: This field specifies the access conditions.

Software Release: 5E4(2) and later

Default: DENY

Valid Entries:

Valid CARRIER DIAL PERM Entries	
Entry	Definition
ALLOW	May dial carrier access code or use a PIC (Presubscribed InterLATA Carrier) identification number for interLATA calls.
DENY	Must use a PIC number for interLATA calls.
REQ	Must dial the carrier access code for interLATA calls.
TALLOW	May dial carrier access code or use a PIC number for test lines.
TDENY	Must use a PIC number for test lines
TREQ	Must dial carrier access code for test lines.

2.18 AUTO CALL DIST?

Description: Does this serving team handle commercial ACD (Automatic Call Distribution) calls.

Software Release: 5E4(2) and later

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" was entered in this field, then "DA" must be entered in the OPER TYPE field.

2.19 NON ISP AND TA

Description: Does the serving team allow non-ISP and TA calls.

Software Release: 5E5 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field and the OPER TYPE field is set to "TA", then the NON ISP ONLY field must be set to "N". If the OPER TYPE field is set to "DA", then this field must be set to "N".

2.20 NON ISP ONLY

Description: Does the serving team allows only non-ISP calls.

Software Release: 5E5 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the NON ISP AND TA field and "TA" is entered in the OPER TYPE field, then this field must be set to "N". If the OPER TYPE field is set to "DA", then this field must be set to "N".

2.21 INTRAFLOW ALW

Description: Is this serving team allowed to receive intraflowed calls?

Software Release: 5E5 and later.

Default: N

Valid Entries: Y, N

Data Rules:

The following conditions must exist to enable the Intraflow feature: the SERVING TEAM entry on this STINFO form must be defined on the SUP TEAM field of an OSPSCT form (5404 Record), and "Y" must be entered in the INTRAFLOW ALW field of the OSPSOPT form (5424 Record).

2.22 PCT INTRAFLOW

Description: This field indicates the maximum percentage of currently logged-in operators of this serving team that is allowed to handle calls from supporting calls queues.

Software Release: 5E5 and later.

Default: 0(%)

Valid Entries: 0 - 100 (%)

Data Rules:

If "0" is entered in the PCT INTRAFLOW field (or it is left blank), then the INTRAFLOW ALW field is set to "N".

2.23 MUSIC RI

Description: Enter the route index of the music source to be used when a member of the serving team puts a call on hold. This field is for Commercial ACD features only.

Software Release: 5E6 and later.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

If this field is entered, then AUTO CALL DIST? field must be "Y" and OPER TYPE must be "DA".

If MUSIC RI has an entry, then an RTIDX form (5303 Record) must have a ROUTE INDEX entry that equals the entry in this field. In addition, the CI ROUTE TYPE on that RTIDX form must equal "GENANN". Also, the ROUTE INDEX on the RTIDX form must equal a TGN on a TKGRP form (5202 Record) where the TRK DIR field must equal "ANN", the CYCLES field must equal "O" and the BARGE IN field must equal "Y".

An entry in this field also requires a corresponding TRUNK form (5204 Record) be entered where the TGN equals the TRUNK GROUP NUMBER on an RTIDX form and MEMB equals "O" on that TRUNK form. A corresponding TRUNK form is one where the MUSIC RI equals the ROUTE INDEX on the RTIDX form, and the TRUNK GROUP NUMBER on the RTIDX form equals the TGN on the TRUNK form.

For 5E9(1) - 5E10 later, if MUSIC RI is entered, TGID cannot be entered. If MUSIC RI or TGID is entered, then MUSIC SELCTD must also be entered.

For 5E11 and later, MUSIC RI must be entered if MUSIC SELCTD is "Y".

2.24 MUSIC SELCTD

Description: Is music to be provided to the calls on hold?

Software Release: 5E6 and later.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E9(1) - 5E10, if MUSIC SELCTD is "Y", either TGID or MUSIC RI must be entered. If MUSIC SELCTD is "N", TGID and MUSIC RI cannot be entered.

For 5E11 and later, if "Y" is entered, then MUSIC RI must be entered.

2.25 AFTER CALL WK

Description: Should the after-call work-state (auto make busy) be allowed? If "Y" is entered, then the ACD/BRCS position enters the "Make Busy with ACD call" state whenever the agent answers a hunted call. For more information on the ACD/BRCS feature see Division 2, Section 4A121.

Software Release: 5E9(1) - 5E10

Required Field.

Default: N

Valid Entries: Y, N

2.26 LIVE MIKE

Description: Should a live mike be allowed during service observing? If "Y" is entered then the ACD/BRCS service observer is by default given a 2-way connection when service observing. If "N" is entered, then the ACD/BRCS service observer is by default given a 1-way connection when service observing.

Software Release: 5E9(1) - 5E10

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

LIVE MIKE is a secured feature and may not be set to "Y" on the STINFO form unless "Y" is entered in SFID 4 on the SFSYS form (5713-1 Record).

2.27 WARN TONE

Description: This field specifies whether, during an ACD/BRCS service observe session, a warning tone

- is provided to the observed agent,
- is provided to the observed agent and far party, or
- is not provided to either the agent or the far party.

No entry in this field indicates a warning tone is not provided.

Software Release: 5E9(1) - 5E10

Valid Entries:

Valid WARN TONE Entries	
Entry	Definition
1ALL	Agent and far end party hear a warning tone one time.
AGENT	Only the agent being observed hears a warning tone.
ALL	The agent being observed and far end hear a warning tone.

2.28 TGID

Description: Enter the Terminal Group Identification used to associate the serving team with an ACD/BRCS customer.

Software Release: 5E9(1) - 5E10

Valid Entries: 1 - 65535

Data Rules:

If TGID is entered, AUTO CALL DIST? must be "Y".

If MUSIC RI is entered, TGID cannot be entered. If MUSIC RI or TGID is entered, then MUSIC SELCTD must also be entered.

The TGID entry on this form must be defined as a GROUP ID on either the TGSRFD, TGSRLPA, TGSRLMPA, TGSRTPA or BFG form.

For 5E9(1) - 5E10, if TGID is entered and MUSIC SELCTD is set to "Y", then the TGID specified must have a

Music On Hold TGN and MEMB assigned on the associated TGATTD with a GROUP ID that matches the TGID on this form. For more information on the secured feature Music On Hold see Division 2, Section 4A64.

For 5E9(1) - 5E10, when TGID is not entered, SCREEN INDEX must be entered.

For 5E9(1) - 5E10, when TGID is not entered, DIG ANALYSIS SEL must be entered.

2.29 E911 PSAP

Description: Is this serving team associated with an ACD E911 Public Safety Answering Point?

Software Release: 5E9(1) - 5E10

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

To activate this secured feature, the ACT field for SFID 143 on the SFSYS form (5713-1 Record) must be "Y".

When E911 PSAP is "Y", AUTO CALL DIST must be "Y".

2.30 AUTO CLOSE END ANNC

Description: Is the automated close-end announcement treatment allowed? This field supports the OSPS Closed End Branding for Operator Handling Calls secured feature (SFID 404). For more information on this feature, see Division 2, Section 4A404.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

SCREEN 1 OF 2

stinfo

(5402-1/2)

5ESS Switch

OFFICE DATA ADMINISTRATION

SERVING TEAM INFORMATION

*1. SERVING TEAM	_____	13. SCREEN INDEX	_____
#2. OPER TYPE	_____	14. DIG ANALYSIS SEL	_____
3. SERVICE ATTN CALL TYPE	_____	15. SEC DIG ANALYSIS SEL	00
#4. EXTERNAL DIALING PERM	DENY	16. CARRIER DIAL PERM	DENY
5. DIALING PERM INDEX	_____	17. AUTO CALL DIST?	N
#6. EMRG CONF ALLOW	N	18. NON ISP AND TA	N
7. EMRG CONF CALL TYPE	_____	19. NON ISP ONLY	N
#8. DAS/C AVAILABLE	N	20. INTRAFLOW ALW	N
9. CARRIER ID	_____	21. PCT INTRAFLOW	000
10. HANDOFF ALLOWED	Y	22. MUSIC RI	_____
11. TRANSFER ALLOWED	Y	23. MUSIC SELCTD	_____
12. CONF TRANS ALLOWED	N		

```

SCREEN 2 OF 2
stinfo
(5402-1/2)
5ESS SWITCH
OFFICE DATA ADMINISTRATION
SERVING TEAM INFORMATION

24. AFTER CALL WK N
25. LIVE MIKE N
26. WARN TONE _____
27. TGID _____
28. E911 PSAP N

29. AUTO CLOSE END ANNC N

```

Figure 1 SAMPLE STINFO FORM 5E11 - 5E14 SOFTWARE RELEASES

stinfo		5ESS Switch	
		—	
OFFICE DATA ADMINISTRATION			
(5402-1/2)		OSPS SERVING TEAM INFORMATION	
*1. SERVING TEAM	_____	#13. SCREEN INDEX	_____
#2. OPER TYPE	_____	#14. DIG ANALYSIS SEL	_____
3. SERVICE ATTN CALL TYPE	_____	15. SEC DIG ANALYSIS SEL	000
4. EXTERNAL DIALING PERM	DENY	16. CARRIER DIAL PERM	DENY
5. DIALING PERM INDEX	_____	17. AUTO CALL DIST?	N
6. EMRG CONF ALLOW	N	18. NON ISP AND TA	N
7. EMRG CONF CALL TYPE	_____	19. NON ISP ONLY	N
8. DAS/C AVAILABLE	N	20. INTRAFLOW ALW	N
9. CARRIER ID	_____	21. PCT INTRAFLOW	000
10. HANDOFF ALLOWED	Y	22. MUSIC RI	_____
11. TRANSFER ALLOWED	Y	23. MUSIC SELCTD	—
12. CONF TRANS ALLOWED	N	24. AUTO CLOSE END ANNC	N

Figure 2 SAMPLE STINFO FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4D: 5403 RECORD

OSPS OPERATOR ASSIGNMENT FORM - OSPSOA

1. GENERAL

The 5403 Record is available with 5E4(1) and later Software Releases.

This record is used to define OSPS (Operator Services Position System) operator positions, assign operators to serving teams and define valid operator actions.

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * OPERATOR ID

Description: Enter the OSPS operator login identification. OPERATOR IDs must consist only of numbers for OPER TYPES of "DA". Values in the range 9000 through 9999 are reserved and are not allowed.

To receive an AMA record with the OPERATOR ID listed, it is recommended that only numbers are entered rather than alphanumerics for the OPERATOR ID.

Required Field.

Valid Entries: 4 alphanumeric characters

2.3 # OPER TYPE

Description: Enter the type of operator.

For 5E6 and later, the Listing Services operator using a BST-LS terminal, should be aware that the only letters a BST-LS can generate are "a" by pressing SHIFT 2, "n" by pressing SHIFT 6, and "y" by pressing SHIFT 9. An example of an OPERATOR ID for a BST-LS terminal would be "123a" or "1234".

Required Field.

Software Release: 5E4(2) and later

Valid Entries:

Valid OPER TYPE Entries	
Entry	Definition
DA	Directory Assistance
TA	Toll and Assistance and Listing Services

2.4 DASC OPERATOR ID

Description: Enter the OSPS DASC (Directory Assistance System Computer) operator login identification.

Valid Entries: 1 - 8999

Data Rules:

If OPER TYPE is "TA", no entry is allowed in the DASC OPERATOR ID field. DASC OPERATOR IDs cannot be duplicated for OPER TYPES of "DA".

2.5 # SERVING TEAM

Description: Enter the OSPS Serving Team number that this operator is assigned to.

Required Field.

Valid Entries: 1 - 128

Data Rules:

An STINFO form (5402 Record) must be completed for each OPER TYPE/SERVING TEAM combination on this form.

2.6 EXTERNAL DIALING PERM

Description: Enter the external dialing permission for this operator. If the corresponding entry on the STINFO form is appropriate for the operator, enter the same value.

Default: DENY

Valid Entries:

Valid EXTERNAL DIALING PERM Entries	
Entry	Definition
DENY	Denied external dialing
UNRES	Unrestricted external dialing
RES	Restricted external dialing

Data Rules:

If "RES" is entered in this field, then the STINFO form whose SERVING TEAM entry is equal to the SERVING TEAM entry on this form, must have an entry of "RES" or "UNRES" in the SERVING TEAM field and an entry between 1 and 64 in the DIALING PERMISSION INDEX field.

2.7 HANDOFF ALLOWED

Description: Can the operator transfer calls to other operators within the same serving team? If the corresponding entry on the STINFO form is appropriate for the operator, enter the same value.

Default: Y

Valid Entries: Y, N

2.8 TRANSFER ALLOWED

Description: Can the operator transfer calls to positions outside the service team? If the corresponding entry on the STINFO form is appropriate for the operator, enter the same value.

Default: Y

Valid Entries: Y, N

2.9 CONF TRANS ALLOWED

Description: Can the operator conference or transfer to other operators? If the corresponding entry on the STINFO form is appropriate for the operator, enter the same value.

Default: N

Valid Entries: Y, N

Data Rules:

If TRANSFER ALLOWED is "N", then CONF TRANSFER ALLOWED must be "N".

2.10 MNGR PSWD

Description: Enter the manager login identification. For 5E6 and later Software

Releases, if a Listing Services operator is using a BST-LS terminal, the operator should be aware that the only letters a BST-LS can generate are "a" by pressing SHIFT 2, "n" by pressing SHIFT 6, and "y" by pressing SHIFT 9. The password for a BST-LS terminal could be "12ny5".

Valid Entries: 6 alphanumeric characters

Data Rules:

If "TA" is entered in the OPER TYPE field, then the MNGR PSWD must contain at least one alphabetic character. An entry is required in the MNGR PSWD field if "Y" is entered in the MON PERM field.

2.11 MON PERM

Description: Is the operator allowed to monitor calls?

Default: N

Valid Entries: Y, N

ospsoa	5ESS Switch	—
(5403)	OFFICE DATA ADMINISTRATION	
	OSPS OPERATOR ASSIGNMENT	
* 1. OPERATOR ID	_____	
# 2. OPER TYPE	_____	
3. DASC OPERATOR ID	_____	
# 4. SERVING TEAM	_____	
5. EXTERNAL DIALING PERM	DENY	
6. HANDOFF ALLOWED	Y	
7. TRANSFER ALLOWED	Y	
8. CONF TRANS ALLOWED	N	
9. MNGR PSWD	_____	
10. MON PERM	N	

Figure 1 SAMPLE OSPSOA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4E: 5404-1/2 RECORD

OSPS CALL TYPE PARAMETERS FORM - OSPSCT

1. GENERAL

The 5404 Record is available with 5E3 Software Release. The 5404-1/2 Records are available with 5E5 and later Software Releases. These records are used to assign call types. Serving teams, delay announcements, and other parameters are assigned to call types.

The following fields are not applicable to the ACD/BRCS feature:

- RECALL CALL TYPE
- BACK ANNC RTI
- COIN RECALL
- COIN NOTIFY
- MECH TYPE
- SVC ID
- LIST SVC RECALL

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *OSPS CALL TYPE

Description: Enter the Call Type.

Required Field.

Valid Entry: 1 - 128

Data Rules:

When the OSPS CALL TYPE entry matches the OSPS CALL TYPE entry on an OPCTO form (5407 Record), the OPER TYPE on the OSPSCT form must be "DA", or "TA" for Listing Services.

When the OSPS CALL TYPE entry matches the CALL TYPE entry on an ACDCTP form (5412 Record), the OPER TYPE on this form must be "TA", and SVC ID must be entered on this form.

When the OSPS CALL TYPE entry matches the APOS CALL TYPE entry on an ACDCTP form (5412 Record), the OPER TYPE on the OSPSCT form must be "TA". and SVC ID must not be entered.

When the OSPS CALL entry matches the CALL TYPE entry in the NEXT CALL TYPE LIST field of an ACDPOL form (5412 Record), the OPER TYPE on this form must be set to "TA".

If an entry is made in the SERVICE ATTN CALL TYPE field on a STINFO form (5402 Record), a corresponding OSPS CALL TYPE entry must be made here.

2.3 #OPER TYPE

Description: Enter the type of operator.

Software Release: 5E4(2) and later

Required Field.

Valid Entries:

Valid OPER TYPE Entries	
Entry	Definition
DA	Directory Assistance for OSPS or Commercial Automatic Call Distributor
TA	Toll and Assistance or Listing Services for OSPS

Data Rules:

If **"DA"** is entered, then

- for 5E5 and later, each SERVING TEAM must be defined on a STINFO form (5402 Record), with corresponding entries in the AUTO CALL DIST fields.
- for 5E6 and later, the BACK ANNC RTI field, MECH TYPE field, and SVC ID must NOT be entered.
- for 5E6 and later, if VECTOR ID field is entered on the OPCTO form, 5407 Record, then OPER TYPE must be "DA" and AUTO CALL DIST must be "Y" for corresponding OPCTO and OSPSCT forms. Corresponding forms are those forms where the OSPS CALL TYPE fields match.

If **"TA"** is entered, then

- for a Listing Services call, the BACK ANNC RTI field, MECH TYPE field, and SVC ID field must also be entered.
- for 5E6 and later, OPER TYPE must be "TA", if OSPS SVC CODE on the corresponding SERVDATA form is "INCPT" or "IBMINCPT". The SERVDATA form corresponds to this form if the SVC ID field on this form matches the SVC ID on a SERVDATA form.
- and the OSPS CALL TYPE matches OSPS CALL TYPE of an OPCTO form, then the SVC ID of OSPSCT form must be entered.

2.4 RECALL CALL TYPE

Description: Enter the Recall Call Type. If no entry is made in the RECALL CALL TYPE field, it will be set to the same value that is entered in the OSPS CALL TYPE field.

Required Field.

Valid Entry: 1 - 128

Data Rules:

The RECALL CALL TYPE field is for OSPS "DA" and "TA". An OSPS RECALL CALL TYPE must match an OSPS CALL TYPE on this form or another OSPSCT form. The OPER TYPE entries must match on OSPSCT forms and AUTO CALL DIST entries must match, where the OSPS CALL TYPE entry on one form

matches the RECALL CALL TYPE on the other form.

2.5 #SERVING TEAM

Description: Enter the number of the principal serving team that will service this Call Type.

Required Field.

Valid Entry: 1 - 128

Data Rules:

Each OPER TYPE/ SERVING TEAM combination entered here must be defined on a STINFO form (5402 Record). In addition, if the OPER TYPE is "DA", then the AUTO CALL DIST values on this form and the STINFO must be the same.

2.6 SERVICE OBJ

Description: Enter the Service Objective for this Call Type. The Service Objective is the average answer delay, in seconds, that the system will try to achieve for this Call Type. This figure is based on Operator Force Management calculations of anticipated call volume. The entries are in increments of one-tenth of a second.

Required Field.

Default: 10.0

Valid Entries: 0.1 - 60.0 (one-tenth seconds)

2.7 MAX CALLS

Description: Enter the maximum number of calls allowed in a queue for this Call Type.

Required Field.

Default: 30

Valid Entry: 0 - 5000

Data Rules:

The sum of the CLAIM CQDB on the OSPSOPT form (5424 Record) and the MAX CALLS on all the OSPSCT forms must not exceed 5000.

2.8 CALL WAITING ON

Description: The system periodically calculates the average answer delay (in seconds) for each Call Type queue. The call waiting indicator for the Call Type queue will be turned on when the average answer delay is greater than the entry in this field.

Required Field.

Default: 11 (seconds)

Valid Entry: 1 - 1800 (seconds)

2.9 CALL WAITING OFF

Description: The call waiting indicator for the Call Type queue will be turned off when the average answer delay (in seconds) is less than the entry in this field.

Required Field.

Default: 9 (seconds)

Valid Entry: 1 - 1800 (seconds)

Data Rules:

The value of the CALL WAITING ON field must be greater than that of the CALL WAITING OFF field.

2.10 #1ST ANNC RTI

Description: Enter the route index number to the first delay announcement.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The route index entered in this field must be designated in the ROUTE INDEX field of an RTIDX form (5303 Record). The TRUNK GROUP NUMBER on the RTIDX form must match a TGN entry on the TKGRP form and TRK DIR must be "ANN" and LOCAL SM must not be entered on that TKGRP form.

2.11 #1ST ANNC DELAY

Description: The system calculates the expected queue delay (in seconds) for each call that is queued for an operator. Whenever there are two or more calls in a queue, new calls arriving to the queue are eligible for delay announcements in accordance with the length of the expected queue delay. The first delay announcement will be played when the call is first queued if the expected delay exceeds the entry in this field, and does not exceed the entry in the 2ND ANNC DELAY field.

With 5E5 and later Software Releases, 0 may be entered for a forced first announcement.

Required Field.

Default: 15 (seconds)

Valid Entry: 1 - 1800 (seconds)

2.12 #2ND ANNC RTI

Description: Enter the route index number to the second delay announcement.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The route index entered in this field must be designated in the ROUTE INDEX field of an RTIDX form. The TRUNK GROUP NUMBER on the RTIDX form (5303 Record) must match the TGN entry on the TKGRP form (5202 Record). Also, the TRK DIR field must be "ANN" and LOCAL SM must not be entered on that TKGRP form.

2.13 #2ND ANNC DELAY

Description: The call will be routed to the second delay announcement if the expected delay exceeds the entry in this field, and does not exceed the 3RD ANNC DELAY.

Required Field.

Default: 40 (seconds)

Valid Entry: 1 - 1800

Data Rules:

The value entered in this field must be greater than the entry in the 1ST ANNC DELAY field.

2.14 #3RD ANNC RTI

Description: Enter the route index number to the third delay announcement.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The route index entered in this field must match a ROUTE INDEX field of an RTIDX form. For 5E6(2) and later, if AUTO CALL DIST on this form is "N", the TRUNK GROUP NUMBER on the RTIDX form must match a TGN on the TKGRP form; TRK DIR on the TKGRP form must be "ANN", and LOCAL SM must not be entered.

2.15 #3RD ANNC DELAY

Description: The call will be routed to the third delay announcement if the expected delay (in seconds) exceeds the entry in this field.

Required Field.

Default: 60 (seconds)

Valid Entry: 1 - 1800 (seconds)

Data Rules:

The value entered in this field must be greater than the entry in the 2ND ANNC DELAY field.

2.16 #CLOSE DOWN RTI

Description: The CLOSE DOWN RTI is the route index number to a business closed announcement.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

The entry in this field must match a ROUTE INDEX field of an RTIDX form. For 5E6(2) and later, if AUTO CALL DIST on this form is "N", the TRUNK GROUP NUMBER on that RTIDX form must match the TGN on a TKGRP form. The TRK DIR on that TKGRP form must be "ANN" and LOCAL SM must be unknown.

2.17 #CALL TYPE OPEN

Description: " Is this Call Type servicing calls?

Required Field.

Default: N

Valid Entry: Y, N

Data Rules:

If the entry in this field is "N", then an entry is required in the CLOSE DOWN RTI field.

2.18 CALL TYPE NAME

Description: Enter the Call Type Name. Only alphanumeric characters and spaces may be entered. No double quotes or special characters are allowed.

Valid Entry: 1 - 10 characters

Data Rules:

The entry in this field must be unique, it cannot be duplicated on another OSPSCT form.

2.19 BACK ANNC RTI

Description: Enter the route index number to the turn-back announcement.

Software Release: 5E4(2) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

If OPER TYPE is "DA", then this field must not be entered. If OPER TYPE is "TA", then this field must be entered.

The route index entered in this field must be defined as a ROUTE INDEX on an RTIDX form. For 5E8 and later, a TRUNK GROUP NUMBER must be entered on the RTIDX form and must be defined in the TGN field on a TKGRP form where TRK DIR is "ANN".

2.20 AUTO CALL DIST

Description: Is this Call Type used for CACD (Commercial Automatic Call Distribution)?

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "TA" was entered in the OPER TYPE field, this field must be "N".

Entries in the AUTO CALL DIST field must match where the OSPS CALL TYPE on one OSPSCT form matches the RECALL CALL TYPE on another.

For 5E6 and later Software Releases, if "N" is entered and the OPER TYPE field is "DA", then a corresponding OPCTO form (5407 Record) is required where the CPND ASSIGNED field is "N". A corresponding OPCTO form is one in which the OSPS CALL TYPE field matches the OSPS CALL TYPE on the OSPSCT form.

For 5E6 and later, when VECTOR ID is entered on an OPCTO form, the associated OSPSCT form (the OSPS CALL TYPEs match) must have "Y" entered for AUTO CALL DIST.

2.21 COIN RECALL

Description: Enter the Coin Recall Number, which is the call type (queue) for coin recall. If no entry is made in this field, then the associated OSPS CALL TYPE value will be used.

Software Release: 5E5 and later

Required Field.

Valid Entries: 1 - 128

Data Rules:

Each value in the COIN RECALL field must be defined as a valid CALL TYPE on the same form or on another OSPSCT form. If it is a CALL TYPE on another OSPSCT form, the OPER TYPE value must be the same on both forms.

2.22 COIN NOTIFY

Description: Enter the Coin Notify Number, which is the specific type of notify coin recall. If no entry is made, the associated OSPS CALL TYPE value will be used.

Software Release: 5E5 and later

Valid Entries: 1 - 128

Data Rules:

Each entry in the COIN NOTIFY field must be defined as a valid CALL TYPE on the same form or on another OSPSCT form. If it is a CALL TYPE on another OSPSCT form, the OPER TYPE value must be the same on both forms.

2.23 MECH TYPE

Description: This entry specifies the MECH (More Efficient Call Handling) queue for the call type.

Software Release: 5E6 and later

Valid Entries: 1 - 128

Data Rules:

If OPER TYPE is "TA", then an entry is required for MECH TYPE. If OPER TYPE is not "TA", do not enter anything in this field.

If MECH TYPE is entered on this OSPSCT form, it must match the OSPS CALL TYPE on this form or on another OSPSCT form. If MECH TYPE matches OSPS CALL TYPE on a different OSPSCT form, then the OPER TYPE fields on both forms must match. The default is the OSPS CALL TYPE on this form.

2.24 SVC ID

Description: Enter the Listing Services identification number. For a Listing Service such as White Pages or customer name and address, if OPER TYPE is NOT "TA", do NOT make an entry in this field.

Division 2, Section 3c discusses the translations needed for Listing Services.

Software Release: 5E6 and later

Valid Entries: 1 - 1023

Data Rules:

An entry in SVC ID field requires that an OPEISDB form exist for each entry in the SERVING TEAM and SUP TEAM field on the corresponding OSPSCT form. The SVC ID fields on the two forms must be equal and the SERVING TEAM or SUP TEAM field on the OSPSCT form must be equal to SERVING TEAM field on the OPEISDB form.

If the VECTOR ID field is entered on the OPCTO form, 5407 Record, then this field should be left blank.

When SVC ID is entered, NON ISP ONLY must be "N" on the STINFO form (5402 Record) associated with this OSPSCT form, i.e., the SERVING TEAM on the STINFO form matches either the SERVING TEAM or the SUP TEAM on this form.

2.25 LIST SVC RECALL

Description: Should the service recall type be assigned?

This field provides for the ability to assign the recall call type based on the EIS NAME and SVC ID.

Software Release: 5e6 and later

Required Field.

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field, then SVC ID field must be entered.

Each EIS NAME and SVC ID on a OPEISDB form may have only one OSPS CALL TYPE on a OSPSCT form used as the Listing Services Recall Call Type.

Call types used as a recall queue identifier type must have the same EIS name assigned to all serving teams for this recall call type.

The recall must be served by the same EIS (External Information System) because only that EIS will have a record of the original call. An EIS is assigned to a SERVING TEAM and SVC ID on the OPEISDB form. Therefore, for each OSPSCT form where LIST SVC RECALL is "Y", a corresponding OPEISDB form must be submitted where the SERVING TEAM and SVC ID fields match on the two forms. A corresponding OPEISDB form must also be submitted for each SUP TEAM entered on the OSPSCT form. The SERVING TEAM and SVC ID fields on the OPEISDB form must match SUP TEAM and SVC ID fields on the OSPSCT form. The EIS NAME must be the same on all corresponding OPEISDB forms.

If LIST SVC RECALL is "Y" on an OSPSCT form, the OSPS CALL TYPE field is used as the SVC ID on this form and the Listing Services Recall Call Type for the EIS NAME on the OPEISDB form that is pointed to by the SERVING TEAM and SVC ID fields on this OSPSCT form.

A second OPEISDB form is required for every OSPSCT form if LIST SVC RECALL is "Y" and if the PRE OPER EIS field entered on the corresponding SERVDATA form is different than the EIS NAME on the first OPEISDB form.

- A corresponding SERVDATA form is found by matching the SVC ID field with the SVC ID field on the OSPSCT form.
- The first OPEISDB form is found by matching the SERVING TEAM and SVC ID fields with SERVING TEAM and SVC ID fields on the OSPSCT form, respectively.
- The second OPEISDB form is found by matching the SVC ID and EIS NAME fields with the SVC ID and PRE OPER EIS fields on the SERVDATA form, respectively.

2.26 INTRAFLOW ALW

Description: Is Intraflow allowed for this call queue?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then

- the INTRAFLOW ALW field on the OSPSOPT form (5424 Record) must be set to "Y".
- at least one supporting Serving Team must be entered in the SUP TEAM field in the SUPPORT TEAM LIST. In addition, the SUP TEAMS must be defined on the STINFO form (5402 Record) with INTRAFLOW ALW set to "Y" on the STINFO form.

If no supporting teams are entered, this field should be set to "N". For further information see Division 2, Section 3.

2.27 QUEUE BUSY

Description: Should a busy tone be given to the caller when the call queue is full?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.28 DELAY BUSY

Description: Should a busy tone be given to the caller when the threshold is exceeded?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.29 ANNC ON LVL1

Description: Should an announcement be given instead of audible tone for a level 1 delay?

Software Release: 5E9(1) and later

Default: N

Valid Entries: Y, N

2.30 TGID

Description: This is a Recent Change/Verify only field. This field displays the TGID (Terminal Group Identifier) if it is assigned to an ACD/BRCS serving team. For more information on ACD/BRCS secured feature, see Division 2, Section 4A121. For 5E11 and later, this field was moved to the CQPARM form, Division 4, Section 32E.

Software Release: 5E9(1) - 5E10

Valid Entries: 1 - 65535 or blank

Data Rules:

When the TGID on the OSPS Serving Team view 21.2 is changed, then the TGID is changed to the new value for all of the CALL TYPE(s) that are associated with the SERVING TEAM.

Q DIALING

For 5E9(1) - 5E10, the following field identifies the ACD and DAA TNs if Q DIALING TN field is set to "Y" on the ACD and DAA assignment form, ACDTN, view 4.15. For 5E11 and later, the ACD/BRCS data in this form has been moved to CQPARM form, Division 4, Section 32E.

2.31 ACD OR DAA TN

Description: This field is a Recent Change/Verify only field. It displays the Q DIALING TN, if assigned, for this call type. For 5E11 and later, this field was moved to the CQPARM form, Division 4, Section 32E.

Software Release: 5E9(1) - 5E10.

Valid Entries: 7-digit telephone number

Data Rules:

When "Y" is entered in the Q DIALING TN field on the ACDTN form, view 4.15, the ACD or DAA telephone number value is displayed in this field.

SUPPORT TEAM LIST

This list (fields Section 2.32 - Section 2.33) details the associated supporting Serving Team for INTRAFLOW and its corresponding delay threshold.

2.32 SUP TEAM

Description: Enter the supporting Serving Team for Intraflow.

Software Release: 5E5 and later

Valid Entries: 1 - 128

Data Rules:

This team cannot be the same as the entry in the SERV TEAM field. Support serving team numbers must be unique.

Any team entered here must be entered as the key value SERV TEAM on a STINFO form (5402 Record). In addition, the OPER TYPE on this form must match the OPER TYPE on the STINFO form and the AUTO CALL DIST fields on both forms must be the same.

To enable Intraflow, the corresponding STINFO form must have a "Y" in the INTRAFLOW ALW field and the INTRAFLOW ALW field on the OSPSOPT form (5424 Record) must also be set to "Y". In addition, the OPER TYPE on the STINFO form (5402 Record) must be the same as the OPER TYPE on the OSPSCT form.

For 5E9(1) and later, if the entry on this form matches a SERVING TEAM entry on the STINFO form, then the PCT INTRAFLOW on the STINFO form must be entered and INTRAFLOW ALW on that form must be "Y".

2.33 DELAY THRSH

Description: This field indicates the Intraflow delay threshold in seconds for the associated supporting Serving Team. In this list of 1 to 8 thresholds, any value entered here must be equal to or greater than the preceding DELAY THRSH entered.

Software Release: 5E5 and later

Default: 0

Valid Entries: 0 - 1800 (seconds)

Data Rules:

If this value is greater than 0, then an entry is required in the corresponding SUP TEAM field.

* 1. OSPS CALL TYPE	071	#13. 3RD ANNC RTI	0304
# 2. OPER TYPE	TA	14. 3RD ANNC DELAY	0060
# 3. RECALL CALL TYPE	071	#15. CLOSE DOWN RTI	0300
# 4. SERVING TEAM	033	16. CALL TYPE OPEN	Y
5. SERVICE OBJ	10.0	17. CALL TYPE NAME	acd71
6. MAX CALLS	0030	18. BACK ANNC RTI	0400
7. CALL WAITING ON	0011	19. AUTO CALL DIST	N
8. CALL WAITING OFF	0009	#20. COIN RECALL	071
# 9. 1ST ANNC RTI	0301	21. COIN NOTIFY	071
10. 1ST ANNC DELAY	0015	22. MECH TYPE	071
#11. 2ND ANNC RTI	0303	23. SVC ID	0101
12. 2ND ANNC DELAY	0040	24. LIST SVC RECALL	Y

SCREEN 2 of 2

5ESS Switch

—

ospset

OFFICE DATA ADMINISTRATION

(5404-1/2/3)

CALL TYPE PARAMETERS

25. INTRAFLOW ALW Y

31. SUPPORT TEAM LIST

26. QUEUE BUSY N

27. DELAY BUSY N

28. ANNC ON LVL1 N

ROW	SUP TEAM	DELAY THRSH
1	076	0045
2	083	0090
3	—	—
4	—	—
5	—	—
6	—	—
7	—	—
8	—	—

TGID

Q DIALING

ACD OR DAA TN

Figure 1 SAMPLE OSPSCT FORM 5E9(1) - 5E10 SOFTWARE RELEASES

SCREEN 1 of 2

5ESS Switch

ospset

OFFICE DATA ADMINISTRATION

(5404-1/2/3)

OSPS CALL TYPE PARAMETERS

* 1. OSPS CALL TYPE

#13. 3RD ANNC RTI

2. OPER TYPE

14. 3RD ANNC DELAY 0060

3. RECALL CALL TYPE

#15. CLOSE DOWN RTI

4. SERVING TEAM

16. CALL TYPE OPEN N

5. SERVICE OBJ 10.0

17. CALL TYPE NAME

6. MAX CALLS 0030

18. BACK ANNC RTI

7. CALL WAITING ON 0011

19. AUTO CALL DIST N

8. CALL WAITING OFF 0009

#20. COIN RECALL

9. 1ST ANNC RTI

21. COIN NOTIFY

10. 1ST ANNC DELAY 0015

22. MECH TYPE

#11. 2ND ANNC RTI	_____	23. SVC ID	_____
12. 2ND ANNC DELAY	0040	24. LIST SVC RECALL N	

SCREEN 2 of 2	5ESS Switch	—
ospst	OFFICE DATA ADMINISTRATION	
(5404)1/2)	OSPS CALL TYPE PARAMETERS	

25. INTRAFLOW ALW N	31. SUPPORT TEAM LIST
26. QUEUE BUSY N	
27. DELAY BUSY N	
28. ANNC ON LVL1 N	
	ROW SUP TEAM DELAY THRSH
	1 _____
	2 _____
	3 _____
	4 _____
	5 _____
	6 _____
	7 _____
	8 _____

Figure 2 SAMPLE OSPSCT FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4F: 5405 RECORD OSPS RATE AND ROUTE FORM - ORAR

1. GENERAL

The 5405 Record is available with 5E3 and later Software Releases. This record is used to define the routing and charging for each OSPS (Operator Services Position System) screening index/code index combination in a 5ESS Switch office.

A screening index is associated with an originating class of service (trunk group). A code index is associated with the interpretation of dialed digits. The two indexes form a matrix that is used to access routing and charging information for an OSPS call.

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control number and office name on each record.

2.2 * SCR

Description: Enter the screening index number.

Required Field.

Valid Entries: 1 - 4095

2.3 * CDI

Description: Enter the code index number.

Required Field.

Valid Entries: 3 - 4095

2.4 PFX

Description: Enter the applicable prefix.

Valid PFX Entries	
Entry	Definition
NONE	No prefixed digits.
0	Dial 0+.
1	Dial 1+.

Data Rules:

Duplicate CDI/PFX combinations may not be entered. The "NONE" (no prefix) entry is always required.

2.5 NOC

Description: Enter the OSPS NOC (Normalized Office Code).

Valid Entries: 1 - 511

Data Rules:

If an entry is made in the OSPS CALL ID field, leave this field blank. Any entry in this field must be designated in the OPER NOC field of the OCTA form (5406 Record).

2.6 OSPS CALL ID

Description: Enter the OSPS pre-call identification number.

Valid Entries: 1 - 511

Data Rules:

If an entry is made in the NOC field, leave this field blank. Any entry in this field must be designated in the OSPS CALL ID field of the OPCTO form (5407 Record).

orar	5ESS Switch	—
(5405)	OFFICE DATA ADMINISTRATION	
	OSPS RATE AND ROUTE	

- * 1. SCR 0112
- * 2. CDI 0024

3. SCREENING DATA

	PFX	NOC	OSPS CALL ID
	_____	_____	_____
1	NONE	016	_____
2	0	_____	040
3	1	027	_____

Figure 1 SAMPLE ORAR FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4G: 5406 RECORD OSPS CALL TYPE ASSIGNMENT FORM - OCTA

1. GENERAL

The 5406 record is available with 5E3 and later Software Releases.

This form is used to assign OSPS (Operator Services Position System) Call Type identifications from OSPS NOCs (Normalized Office Codes) and local digits-dialed combinations. The OSPS NOC is assigned on the ORAR form (5405 Record).

1.1 Recent Change View

The corresponding Recent Change View for OCTA is 21.25. For more information on Recent Change Views that correspond to ODA forms, please see Division 0, Section 2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * OPER NOC

Description: Enter the OPER NOC.

Required Field.

Valid Entries: 1 - 511

Data Rules:

An OPER NOC entered on this form must be defined on an ORAR form.

2.3 * LOCDN

Description: Enter the local directory number (without the office code). The LOCDN is the final four digits dialed (to obtain OSPS).

Required Field.

Valid Entries: 0000 - 9999

2.4 OSPS CALL ID

Description: Enter the operator pre-call identification number to be assigned to an OPER NOC/LOCDN combination.

Required Field.

Valid Entries: 1 - 127

Data Rules:

An OSPS CALL ID entered on this form must exist on an OPCTO form (5407 Record). In addition, for 5E6 and later Software Releases, the corresponding OPCTO form must have an entry in the TGN field of 9999.

cccopt	5ESS Switch	—
(5432)	OFFICE DATA ADMINISTRATION	
	CREDIT CARD CALLING OPTIONS	

*1. KEY 0	EMERGENCY INTERRUPT

#2. PIN FAIL TIME	04	7. EI LIMIT	0020
#3. LOCK OUT TIME	005	8. EI THRESHOLD IND	Y
#4. FRAUD FAIL COUNT	30		

SECURITY PRINTER
SECURITY TERMINAL

Figure 1 SAMPLE OCTA FORM 5E5 AND LATER SOFTWARE RELEASES

cccopt	5ESS Switch	—
(5432)	OFFICE DATA ADMINISTRATION	
	CREDIT CARD CALLING OPTIONS	

*1. KEY 0	EMERGENCY INTERRUPT

#2. PIN FAIL TIME	04	7. EI LIMIT	0020
#3. LOCK OUT TIME	005	8. EI THRESHOLD IND	Y
#4. FRAUD FAIL COUNT	30		

SECURITY PRINTER
SECURITY TERMINAL

Figure 2

SEC. 4H: 5407 RECORD OSPS CALL TYPE FOR TRUNK ORIGINATIONS FORM - OPCTO

1. GENERAL

The 5407 Record is available with 5E3 and later Software Releases.

This form assigns an OSPS (Operator Services Position System) Call Type and a BST (Basic Services Terminal) Display Index to an OSPS call identification value/trunk group combination.

1.1 Recent Change View

The corresponding Recent Change View for OPCTO is 21.23. For more information on Recent Change Views that correspond to ODA forms, please see Division 0, Section 2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * OSPS CALL ID

Description: Enter the OSPS pre-call identification value.

Required Field.

Valid Entries: 1 - 511

Data Rules:

OSPS CALL ID entries on this form must exist on an ORAR form (5405 Record) or an OCTA form (5406 Record).

2.3 * TGN

Description: Enter the trunk group number. An entry of 9999 designates all trunk groups.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000 or 9999

For 5E11 and later: 1 - 4000 or 9999

Data Rules:

Entries in the TGN field of this form (except for 9999) must exist on a TKGRP form (5202 Record).

If 9999 is entered in this field, another OPCTO form cannot exist with the same value for OSPS CALL ID, OSPS CALL TYPE and DISPLAY INDEX.

2.4 # OSPS CALL TYPE

Description: Assign an OSPS call type for this OSPS CALL ID/TGN combination.

Required Field.

Valid Entries: 1 - 128

Data Rules:

Entries in this field must exist on an OSPSCT form (5404 Record).

2.5 # DISPLAY INDEX

Description: Assign a BST display index for this CALL ID/TGN combination.

Required Field.

Valid Entries: 1 - 276

Data Rules:

Entries in this field must exist on an OBSTS form (5408 Record).

2.6 VECTOR ID

Description: Enter the VECTOR ID number to be assigned to the OSPS CALL ID on this form. This field assigns the call vector ID that provides call handling while waiting for a CACD agent. See Division 2, Section 4D for translation information on the Call Vectoring Feature.

Software Release: 5E6 and later

Valid Entries: 1 - 256

Data Rules:

An entry in this field must equal an entry in the VECTOR ID on a CTECT form. In addition, when VECTOR ID is entered on this form, the SVC ID field on the corresponding OSPSCT form (OSPS CALL TYPE on the OSPSCT form is equal to the OSPS CALL TYPE on this form) must be blank, "Y" must be entered in the AUTO CALL DIST field and "DA" must be entered for OPER TYPE.

CALLING PARTY NUMBER DELIVERY (CPND)

For 5E6 and later, the following fields (Section 2.7 - Section 2.9) should be entered for the Calling Party Number Delivery feature.

2.7 CPND ASSIGNED

Description: Has the CPND (Calling Party Number Delivery) feature been assigned to the trunk group or the dialed digits combination associated with this OPCTO form?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rule:

If "N" is entered, CPND TO MIS and CPND TO AGENT must also be "N".

If "Y" is entered, a corresponding OSPSCT form must be entered with the OPER TYPE of "DA" and AUTO CALL DIST must be "Y". To find the corresponding OSPSCT form, match OSPS CALL TYPE on this form to

the OSPS CALL TYPE on the OSPSCT form.

2.8 CPND TO MIS

Description: Should the calling party number be sent to the MIS for CACD call?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rule:

This field can only be "Y" if the CPND ASSIGNED field is "Y".

2.9 CPND TO AGENT

Description: Should the calling party number be sent to the PTP for CACD call, for possible display on the agent's terminal? The DISPLAY INDEX field on this form determines the display for the agent's terminal.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rule:

This field can only be "Y" if the CPND ASSIGNED field is "Y".

2.10 DAA

Description: Is direct agent access assigned to this CACD call type? Enter "N" if it is not allowed.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

```

opcto                                5ESS Switch      _
(5407)                                OFFICE DATA ADMINISTRATION
                                     OSPS CALL TYPE FOR TRUNK ORIGINATIONS

* 1. OSPS CALL ID                    010
* 2. TGN                             1045
# 3. OSPS CALL TYPE                   010
# 4. DISPLAY INDEX                   017
   5. VECTOR ID                      025

CALLING PARTY NUMBER DELIVERY (CPND)
6. CPND ASSIGNED                     N
7. CPND TO MIS                       N
8. CPND TO AGENT                     N

```

9. DAA

N

Figure 1 SAMPLE OPCTO FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4I: 5408 RECORD OSPS BASIC SERVICES TERMINAL SEIZURE FORM - OBSTS

1. GENERAL

The 5408 Record is available with 5E3 and later Software Releases.

This record provides information for OSPS (Operator Services Position System) BST (Basic Services Terminal) displays. Display contents, starting positions and lengths are defined per a BST DISPLAY INDEX.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.26

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control number and office number on each record.

2.2 * DISPLAY INDEX

Description: Enter the BST display index. When the DISPLAY INDEX is 1 - 256, the calling number (if presentation is allowed) is displayed or merged with the text display entered in DISPLAY, if DN START and DN LENGTH are specified. The CPND ASSIGNED and CPND TO AGENT fields on the OPCTO form (5407 record) must also be set to "Y", to present the calling party number to the agent via the seizure display.

When the DISPLAY INDEX is 257 - 276 the called number is displayed.

Required Field.

Valid Entries: 1 - 276

TEXT DISPLAY

The following field defines the text display for the BST.

2.3 DISPLAY

Description: Enter the text display for this BST display index.

Valid Entries: 10 alphanumeric characters, "-" and "/"

Data Rules:

DISPLAY should be blank when BST DISPLAY INDEX is greater than 256.

CALLING/CALLED NUMBER DISPLAY

The following fields (Section 2.4 - Section 2.5) define the calling/called number display.

2.4 DN START

Description: Enter the starting position for the BST display.

Valid Entries:

5E3 only: 1 - 15

5E4(2) and later: 1 - 10

Data Rules:

For 5E5 and earlier, this field must be left blank if the BST DISPLAY INDEX is less than 257. If the BST DISPLAY INDEX is greater than 256, then the sum of the DN START and DN LENGTH fields must be 16 or less for 5E3 only and 11 or less for 5E4(2) and later.

For 5E5 and later, DN START must be entered when DISPLAY INDEX is between 257 and 276.

2.5 DN LENGTH

Description: Enter the Length of the BST display.

Valid Entries:

5E3 only: 1 - 15

5E4(2) and later: 1 - 10

Data Rules:

For 5E5 and earlier, this field must be left blank if the BST DISPLAY INDEX is less than 257. If the BST DISPLAY INDEX is greater than 256, then the sum of the DN START and DN LENGTH fields must be 16 or less for 5E3 only and 11 or less for 5E4(2) and later.

For 5E5 and later, DN LENGTH must be entered when DISPLAY INDEX is between 257 and 276.

For 5E6 and later, when DISPLAY INDEX is less than 257 and DN START is not entered, DN LENGTH must not be entered. When DISPLAY INDEX is less than 257 and DN START is entered, then DN LENGTH must be entered.

obsts	5ESS Switch	—
(5408)	OFFICE DATA ADMINISTRATION	
	OSPS SEIZURE	

* 1. DISPLAY INDEX 017

	TEXT DISPLAY		CALLING/CALLED NUMBER DISPLAY
2. DISPLAY	UNLISTED	3. DN START	—
		4. DN LENGTH	—

Figure 1 SAMPLE OBSTS FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 4J: 5409 RECORD

OSPS RESTRICTED EXTERNAL DIALING FORM - RESXDL

1. GENERAL

The 5409 Record is available with 5E4(1) and later Software Releases.

This record defines restricted dialing sequences for an external dialing index. The external dialing index is assigned to an OSPS (Operator Services Position System) serving team in the DIALING PERM INDEX field on an STINFO form (5402 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control number and office name on each record.

2.2 * DIALING PERM INDEX

Description: Enter the restricted external dialing index.

Required Field.

Valid Entries: 1 - 64

2.3 DIALED DIGITS

Description: Enter up to 20 restricted dialing sequences for this DIALING PERM INDEX. The "*" or "#" character may not appear by itself; it must be accompanied by at least one other character or a space.

Valid Entries: 1 - 32 characters (0 - 9, "#", or "*")

Data Rules:

At least one DIALED DIGITS string must be entered.

```

resxdl                      5ESS Switch          —
(5409)                      OFFICE DATA ADMINISTRATION
                              OSPS RESTRICTED EXTERNAL DIALING
  
```

* 1. DIALING PERM INDEX 40

DIALED DIGITS

2. 3125104640	12. _____
3. 3125104641	13. _____
4. _____	14. _____
5. _____	15. _____
6. _____	16. _____

7.	_____	17.	_____
8.	_____	18.	_____
9.	_____	19.	_____
10.	_____	20.	_____
11.	_____	21.	_____

Figure 1 SAMPLE RESXDL FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4K: 5410 RECORD

OSPS OPERATOR TROUBLE REPORT FORM - OTRVLD

1. GENERAL

The 5410 Record is available with 5E3 and later Software Releases. This record defines OSPS (Operator Services Position System) OTRs (Operator Trouble Reports) and the OTR's destination.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * OTR ID

Description: Enter the Operator Trouble Report Identification Number. For transmission to an external OTR analysis system, a 3-digit number (001 through 999) is the only valid entry. If "N" is entered in the OSPS TA field on the OSPSOPT form (5424 Record), then this field must be a 3-digit number.

- ▲ **WARNING:** The trouble codes "998" and "999" should only be used as described below. The incorrect usage of these trouble codes could cause incorrect billing, asserts, etc.

Trouble code "998" is used when the Back Party on the call is TALKING to the operator but the operator's display shows that the Back Party is on-hook. When entered at the operator position, this trouble code updates the operator's display to show the Back Party as off-hook.

Trouble code "999" is used when the Forward Party on the call is talking to the operator but the operator's display shows that the Forward Party is on-hook. When entered at the operator position, this trouble code updates the operator's display to show the Forward Party as off-hook.

Valid Entries:

- For DA (Directory Assistance): 01 - 999
- For TA (Toll and Assistance): 2 - 3 characters

2.3 # ID IN USE

Description: Is the OTR ID currently in use?

Required Field.

Default: N

Valid Entries: Y, N

2.4 # OTR TO MCC

Description: Is the OTR information to be printed at the MCC (Master Control Center) ROP (Read-Only Printer)?

Required Field.

Default: N

Valid Entries: Y, N

2.5 # OFFICE TYPE

Description: Enter the OSPS Office Type. Enter "F" for a FMC (Force Management Center), or "O" for an OSC (Operator Services Center).

Required Field.

Default: F

Valid Entries:

Valid OFFICE TYPE Entries	
Entry	Definition
F	FMC (Force Management Center)
O	OSC (Operator Services Center)

2.6 # OFFICE NUMBER

Description: Enter the OSPS Office Number.

Required Field.

Default: 1

Valid Entries: 1 - 32

Data Rules:

Enter 1 - 8 if "F" is entered in the OFFICE TYPE field, or 1 - 32 if "O" is entered in the OFFICE TYPE field.

Each OFFICE TYPE/OFFICE NUMBER combination entered on the OTRVLD form (5410 Record) must exist on an OPARM form (5400-1/2 Record).

2.7 # OTR TO OKTR

Description: Is this OTR number to be printed at the OKTR (Operator-Keyed Trouble Report) printer?

Required Field.

Software Release: 5E4(2) and later.

Default: Y

Valid Entries: Y, N

Data Rules:

The entry in the OTR to OKTR field must be "Y" unless the entry in the OTR ID field is between 10 and 99, inclusive.

```
otrvld          5ESS OFFICE DATA ADMINISTRATION  _
(5410)          OSPS OPERATOR TROUBLE REPORT
```

```
*1. OTR ID      310
#2. ID IN USE   N
```

#3.	OTR TO MCC	N
#4.	OFFICE TYPE	F
#5.	OFFICE NUMBER	01
#6.	OTR TO OKTR	Y

Figure 1 SAMPLE OTRVLD FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 4L: 5411 RECORD

OSPS DIGITAL SUBSCRIBER LINE FORM - OSPSDSL

1. GENERAL

The 5411 Record is available with 5E3 and later Software Releases.

1.1 Digital Subscriber Lines External Names

DSLs (Digital Subscriber Lines) are assigned external names instead of directory numbers. The external name consists of an identifier (DATA LINK GRP) and a relative link number (DATA LINK NBR). The identifier for a DSL with an entry in the SERVICE CLASS field of "DASC" (Directory Assistance System/Computer) is its DAS/C number. The identifier for a DSL with a service class of "RAS" (Remote Alarm Section) is its RISLU site number. For an RAS DSL, the entry in the DSL NAME ID field (OSPS DSL Form) must equal the entry in the RISLU SITE field of an EQRISLU form (5732 Record).

1.2 External Information Systems

The DSLs for an EIS (External Information System) require an entry in the DATA LINK GRP field on this form, which must equal the EIS NBR entry on the corresponding EISDATA form (5462-1 Record). An EISDATA form corresponds to this form if EIS NBR on the EISDATA form matches the DATA LINK GRP on this form. A corresponding EISSM form (5462-3 Record) must exist for each OSPSDSL form with the entry "EIS" in the SERVICE CLASS field. The corresponding SM number on the EISSM form must equal the SM portion of the LCEN on this form.

1.3 5E4(2) Toll and Assistance Features

With 5E4(2) and later, six new fields have been added: D RELPIDB, TIMESLOT, QTR TS, MATE LCEN, SCRNX IDX and DAS. These changes are necessary for three OSPS Toll and Assistance features: ACQS (Automatic Charge Quotation Service), RTRS (Real Time Rating System) and AMLB (Automated Multi-Leaf Bulletin). The D RELPIDB, TIMESLOT and QTR TS fields were added for the utilization of ISLUs (Integrated Service Line Units). The MATE LCEN, SCRNX IDX and DAS fields are germane to a SERVICE CLASS of "AQDSL" only.

1.4 Time and Charge Quotes For Autoquote

In order to send out a time and charge quote to an autoquote establishment, there must be links that connect the switch to these locations. In the process of sending quotes out over links, the 5411 Record is checked to obtain information about the links and ports, such as the digital to analog port relationship.

1.5 Autoquote Hardware

For 5E4(2) and later Software Releases, the 5ESS Switch that services ACQS establishments, to which the information is sent electronically and directly (as indicated by selecting "Y" in the AUTO QUOTE field of the ACQS form), must provide the necessary hardware.

The required hardware, which is used in a unidirectional manner to send time and charge information from the 5ESS Switch to the ACQS establishment, consists of the following:

- A DSL port on an ISLU or a RISLU. The DSL will be defined on this form, with a SERVICE CLASS of "AQDSL".

- A modem connected to the DSL.
- A terminal adaptor, adjoined to the aforementioned modem, which converts the digital data from the DSL to analog data before it is sent to the analog mate port.
- An analog mate port residing on a Z-card on an ISLU or RISLU. The card is an SM105 circuit pack, with four circuits. The analog mate port will be defined on the MATE LCEN field on this form. A telephone number is not associated with this port. A DAS (Digit Analysis Selector) is associated with this port, since this port will "call" to a port on an analog trunk unit. The number it will "call" is defined in the QUOTE TN field of the ACQS form. The DAS will be entered in the DAS field of this form. A Screen Index is also associated with this port.
- An analog trunk port, which is connected via customer premise modem to a printer/computer at the ACQS establishment. This port is defined in the AQEST TEN field on the ACQS form. The associated telephone number is defined in the QUOTE TN field of the ACQS form.

1.6 DSL Ports

The 5ESS Switch has a system maximum of sixteen sets of DSL ports and analog mate ports, joined by a modem and terminal adaptor. ODA will not permit more than sixteen OSPSDSL forms with a value in the MATE LCEN field. Please refer to Division 2, Section 3H of this document for (R)ISLU port assignment recommendations.

1.7 Maximum Number of ACQS Subscribers

The 5ESS Switch has a system maximum of 1,000 ACQS establishments that have direct transmittal of time and charge information; ODA will not permit more than 1,000 ACQS forms with a value in the AQEST TEN field.

1.8 Immediate Charge Information

To handle any calls requiring immediate calculations and charges, an RTRS database is needed which receives queries sent from the switch regarding a specific call and sends back a reply containing the chargeable time and the charges for the call. The 5411 Record contains information about RTRS links and ports so that a direct message can be sent from the switch over the correct links.

If no entry is made in the TIMESLOT field, ODA will make the assignments based on the following conditions: LCENs (Line Card Equipment Numbers) assigned to LGCs (Line Group Controllers) 0 through 7 must be defined as odd-numbered PIDB NO. entries on the EQISLU form (5731 Record) and with a PIDB TYPE of "PSU" (also on the EQISLU form). LCENs assigned to LGCs 8 through 15 must be defined as even-numbered PIDB NOs. on the EQISLU form with a PIDB type of "PSU".

ISCN entries on this form require a PIDB with a PIDB TYPE of "PSU" assigned on the same PSU (Packet Switching Unit) shelf on the EQISLU form as the SHELF specified by the first number in the ISCN field.

All OSPSDSLs assigned to the same SHELF and CHL GRP (ISCN fields) must have the same data rate of 16KB, 56KB, or 64KB.

1.9 Recent Change View

The corresponding Recent Change View for OSPSDSL is 21.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and office name on each record.

2.2 * LCEN

Description: Enter a valid 8-digit (R)ISLU LCEN (Line Card Equipment Number). The LCEN must not be duplicated on any DSL, DSMLHLN, DSLAP or other OSPSDSL forms.

Refer to Division 2, Section 3H for recommendations for maximizing the efficiency of assigning DSLs on RISLUs and ISLUs.

It is recommended that no more than 16 ISCNs, defined in the ISCN field of an OSPSDSL form or the B1 ISCN field of an AMLBDSL form, be assigned to the same PROTOCOL HANDLER TYPE of "PH128" defined on an EQPSU form (5741 Record) keyed by the first three digits of the LCEN. Duplicate LCENs on OSPSDSL and AMLBDSL forms are counted as only one of the maximum of sixteen.

Those LCENs on OSPSDSL forms, which are assigned to a PROTOCOL HANDLER TYPE of "PH128" defined on the EQPSU form, and equipped in a given SLG, must belong to the same SHELF and CHL GRP (first three digits of ISCN). The SLCs are defined as LCs (0,2,4,6) or (8,10,12,14) or (16,18,20,22) or (24,26,28,30) in any specific LGC on the RISLU.

For LCENs on the OSPSDSL form which are assigned a Protocol Handler on the EQPSU form, it is recommended that those equipped in a given SLG (Sub Line Group), belong to the same DSL group (first three digits of ISCN). An SLG is a set of 4 (R)ISLU LCs (line cards) assigned to the same LGC (Line Group Controller). The LCs are (0,2,4,6) or (8,10,12,14) or (16,18,20,22) or (24,26,28,30).

A SLG (Sub Line Group) is a group of no more than 4 LC (Line Cards)

Growth Order Of SLGs		
SLG	LGC 5th And 6th Digit Of LCEN	Line Cards Last 2 Digits Of LCEN
0-15	0-15	16, 18, 10, 22
16-31	0-15	08, 10, 12, 14
32-47	0-15	24, 26, 28, 30
48-63	0-15	00, 02, 04, 06

Valid Entries: 8-digit LCEN in the following format.

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
(Remote) Integrated Services Line Unit	(R)ISLU		0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	5E4(2) and later 00 - 30 even only

Data Rules:

Duplicate LCENs may not be assigned; the entries in the LCEN and MATE LCEN fields cannot be the same.

An EQPSU form must exist for SMs assigned in the LCEN field. This assignment equips the switching module with packet switch interface units.

The LCEN must be defined as an equipped and operational U or T card on the ISLULC form (5942 Record) with an EQST (Equipment Status) of "O" (Operational) and a LINE CARD TYPE of "TLC", "PULC" or "ULC".

If LCENs are entered on this form that match LCEN entries on an OSPSOP form (5401 Record) then the SERVICE CLASS on the OSPSDSL form must be "DAOPER" or "TAOPER".

For 5E9(2) and earlier, the value assigned in TERMLIM defines the maximum number of ISDN Terminals that are allowed to be simultaneously active per SM. TERMLIM is a no display field on the EQIM form with a default of 2047. In most cases TERMLIM should be set to this value. The ISDN Terminals are defined as follows:

ISDN Terminal Assignments		
Form	SM	Number of Assignments
DSL	OE[1,3]	MTERM defines the quantity of ISDN Terminals per DSL form.
DSLAP	LCEN[1,3]	by 1 for each LCEN list element defined.
MISLINK	OE[1,3]	by 1
OSPSDSL	LCEN[1,3]	by 1 where SERVICE CLASS is not "XDB"

The following conditions apply to Switching Modules where the PROTOCOL HANDLER TYPE field on an EQPSU form (5741 Record) is set to "PH16"

- Within any given DSL group, DSLs of any LGC must be assigned members from one and only one of the member number groupings 0-3, 6-9 or 12-15.
- DASCs must be assigned to different LGCs on the same SM. No more than two OSPSDSL forms with a SERVICE CLASS of "DASC" may have the same first three digits in the LCEN field.
- No more than two OSPSDSL forms with a SERVICE CLASS of "RTRS" may have the same first three digits in the LCEN field.

All of the DSLs -

IDCU DSLs defined on
 DSL
 MISLINK
 and ISLU/ISLU2 DSLs defined on
 DSL
 DSLAP
 MISLINK
 OSPSDSL

on an SM which have identical entries for the first five digits of the OE for ISLU2 or IDCU or first four digits for ISLU; and which also have the same D REL PIDB and D TIMESLOT entries; must, additionally, have the same

RT for IDCU
 OE[5,6] for ISLU
 LGC for ISLU2

and SHELF/CHL GRP (also defined as the first through third digits of the [D] ISDN) entries.

Each SM / SHELF / CHL GRP can use a maximum of 384 LLCBs (Logical Link Control Blocks). The following applications define the possible LLCB assignments:

LLCB			
Form	SM	SHELF CHL GRP	Increment
AMLBDL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique AMLBDL form where

			SERVICE CLASS is "XDB" on a corresponding OSPSDSL form.
DSL	OE[1,3]	PPB1 ISCN[1,3]	by 1 for each PPB1 ISCN defined.
		PPB2 ISCN[1,3]	by 1 for each PPB2 ISCN defined.
		D ISCN[1,3]	by 1 if a matching DSLUSR form is not found
DSLUSR	OE[1,3]	D ISCN[1,3] on the corresponding DSL form	by 2 for each DSLUSR form where DPKT TN or DPKT MLHG/TERM is entered. by 1 for each DSLUSR form where DPKT TN and DPKT MLHG/TERM are blank.
		ODB ISCN1[1,3]	by 1 if only ODB ISCN1 is entered.
		ODB ISCN2	by 2 if both ODB ISCN1 and ODB ISCN2 are entered.
DSLAP	LCEN[1,3]	ISCN[1,3]	by 1 for each unique LCEN/ISCN combination.
MISLINK	OE[1,3]	SHELF and CHL GRP	by 1 for each MISLINK form.
OSPSDSL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique OSPSDSL form where SERVICE CLASS is "TAOPER" or "DAOPER" and a corresponding AMLBDSL form is defined. by 1 for each unique OSPSDSL form.
RTERM RT INTERFACE is "TR30311" SM	ISCN[1,3]		by 3 for each EOC PRI ISCN and each EOC NPRI ISCN entry.
TRUNK Where TRKCLS is "IFOPER", "IFTERM" or "EDSL"	DEN[1,3]	ISCN[1,3]	1 for each unique TRUNK form.
XAT	DEN[1,3]	ISCN[1,3]	by 1 for each unique XAT form.

2.3 # SERVICE CLASS

Description: Enter the OSPS Service Class of the equipment assigned to this LCEN.

Required Field.

Valid SERVICE CLASS Entries	
Entry	Definition
AQDSL	Software Release: 5E4(2) and later. Auto-Quote Data Link - D-channel.
DAOPER	Directory Assistance Operator - BST (Basic Services Terminal) position, and ACT (Agent Communication Terminals) for CACD.
DASC	OSPS DASC (Directory Assistance Service Computer).
EIS	Software Release: 5E6 and later. External Information System.
HOBICR	Software Release: 5E4(2) and later. Hotel Billing Information Center record TTY (Teletypewriter) Data Link - D-channel.
HOBICV	Software Release: 5E4(2) and later. Hotel Billing Information Center Voice Quote TTY Data Link - D-channel.
HOBIS	Software Release: 5E4(2) and later. Hotel Billing Information System Data Link - D-channel.
MISLINK	Commercial ACD Data Link is no longer valid on the OSPSDSL and AMLBDSL forms. DSLs with a SERVICE CLASS of "MISLNK" must be provisioned on the MISLINK form.
OAP	OSPS Administrative Processor.
RAS	Software Release: 5E4(2) and later. Remote Alarm Section.
RTRS	Software Release: 5E4(2) and later. Real Time Rating System Data Link - D-channel.
TAOPER	Automated Position.
XDB	Software Release: 5E4(2) and later.

External Data Base.

Data Rules:

Duplicate combinations of SERVICE CLASS, DATA LINK GRP and DATA LINK NBR are not allowed.

If the SERVICE CLASS is not "AQDSL," then the SCRIN IDX, MATE LCEN and DAS fields must be entered.

For 5E7 and later, if the LCEN on this form matches an LCEN on the OPARM form (except when the LCEN is 19200000), then the SERVICE CLASS fields on these corresponding forms must be the same.

The SERVICE CLASS on AMLBDSL form must match SERVICE CLASS on corresponding OSPSDSL form. Forms correspond if the LCENs match.

AQDSL - If "AQDSL" is entered, then
LVL2 PROF must be "ATA", and
DATA LINK GRP must be 1.

DAOPER - For 5E6 and later, if "DAOPER" is entered, then

- EXTERNAL DATA LINK fields LINK GRP and LINK NBR must not be entered.
- AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRIN IDX, and DAS may not be entered.
- OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form.

DASC - If "DASC" is entered, then LVL2 PROF must be "DASC", and the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRIN IDX, and DAS must not be entered.

When LCENs have a SERVICE CLASS of "DASC" and they are assigned to the same SM (first three digits of LCEN), then the DATA LINK GRPs must be the same.

Also see **"RTRS"** data rules below.

For 5E6 and later, if "DASC" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form..

If "DASC" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on the OSPSDSL form.

EIS - For 5E6 and later, no more than 16 LCENs with a Service Class of "EIS" can be assigned to an SM. If the SERVICE CLASS entry is "EIS" then a corresponding EISDATA form (5462-1 Record) must be submitted where the EIS NBR on the EISDATA form matches the DATA LINK GRP on the OSPSDSL form. Also, a corresponding EISSM form, (5462-3 Record) must exist for each OSPSDSL form, where SERVICE CLASS is "EIS". The SM and NAME on the EISSM form must match the SM portion of the LCEN on the OSPSDSL form and EIS NAME on the EISDATA form respectively.

If "EIS" or "RAS" is entered, then CONFIGURATION must be "LOADED" on the corresponding EQIM form, where the SM on the EQIM form matches the first 3 digits of the LCEN on this form. For 5E9(2) and later, for the CONFIGURATION that supports this value, see the Configurations for Facilities and Applications table for the EQIM form in Division 8, Section 2.

If "EIS" is entered, then the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRNX, and DAS must not be entered.

For 5E11 and later, if "EIS" is entered and the switching module (first 3 digits of the LCEN) matches an SM on the EISSM form, then the NAME field on the EISSM EIS DATA list must match to EIS NAME on the EISDATA form.

HOBIS - If the SERVICE CLASS class is "HOBIS", then "HOBIS" must be entered in the HOBIS/C field of the OSPSOPT form (5424 Record).

A maximum of eight data links with a SERVICE CLASS of "HOBIS" can be assigned to the same SM (first three digits of LCEN).

HOBICR or **HOBICV** - If the SERVICE CLASS IS "HOBICR" or "HOBICV", then "HOBIC" must be entered in the HOBIS/C field of the OSPSOPT form.

A maximum of eight data links with a SERVICE CLASS of "HOBICR" can be assigned to the same SM (first three digits of LCEN).

A maximum of eight data links with a SERVICE CLASS of "HOBICV" can be assigned to the same SM (first three digits of LCEN).

If "HOBICR" is entered, then LVL2 PROF must be "HOBICR", and the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRNX, and DAS must not be entered.

HOBICV - If "HOBICV" is entered, then LVL2 PROF must be "HOBICV", and the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRNX, and DAS must not be entered.

HOBIS - If "HOBIS" is entered, then LVL2 PROF must be "HOBIS", and the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRNX, and DAS must not be entered.

OAP - The SERVICE CLASS field must be defined as "OAP" for equipment requesting displays defined on the OPARM form (CALL QUEUE DISPLAY, SERVING TEAM DISPLAY, POSITION STATUS DISPLAY and OPERATOR PERFORMANCE DISPLAY fields).

An OSPSDSL form with a SERVICE CLASS of "OAP" must have an associated OPARM form (5400 Record) such that the LCENs on the respective forms are equal.

For 5E6 and later, if "OAP" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form.

If "OAP" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on the OSPSDSL form.

For 5E7 and later, if SERVICE CLASS is "OAP":

- then DATA LINK GRP must be entered and DATA LINK NBR must be 0 or 1. If DATA LINK NBR is 1, then DATA LINK GRP must be 1 - 8. If DATA LINK NBR is 0, then DATA LINK GRP must be 1 - 32,
- a corresponding OPARM form must be found by matching LCEN and OFFICE NUMBER on the OPARM form with LCEN and DATA LINK GRP on the OSPSDSL form. If the OFFICE TYPE is "O" or "F" on the OPARM form, the DATA LINK NBR must be 0 or 1 respectively on the OSPSDSL form.
- no more than 4 LCENs with a SERVICE CLASS of "OAP" can be assigned to a single SM. In addition, the

LCEN must not be 19200000, and

- LVL2 PROF must be "ATA" and the AUTOQUOTE ANALOG MAT LINE fields, MATE LCEN, SCRNX, and DAS, must be not be entered.

RAS - If the SERVICE CLASS is "RAS" and only one RAS for a particular DSL NAME ID is assigned to an SM, an RISITE form (5940 Record) must exist that meets the following conditions:

- SITE ID must match the DSL NAME ID on the OSPSDSL form.
- SM must match the first three digits of the LCEN field on the OSPSDSL form.
- RAS EQUIPPED? field must be set to "Y".
- RAS DUPLEX ACC? field must be set to "N".

If the SERVICE CLASS is "RAS" and two RASs for a particular DSL NAME ID are assigned to an SM, an RISITE form must exist that meets the following conditions:

- SITE ID must match the DSL NAME ID on the OSPSDSL form.
- SM must match the first three digits of the LCEN field on the OSPSDSL form.
- RAS EQUIPPED? field must be set to "Y".
- RAS DUPLEX ACC? field must be set to "Y".

For 5E6 and later, if "RAS" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form.

RTRS - There are two conditions that must be satisfied when there are exactly two OSPSDSL forms with a SERVICE CLASS of "RTRS" or "DASC" and the SM portion of the LCENs match.

If "RAS" is entered, then CONFIGURATION must be "LOADED" on the corresponding EQIM form. For forms to correspond, the SM on the EQIM form matches the first 3 digits of the LCEN on the OSPSDSL form. For 5E9(2) and later, for the CONFIGURATION that supports this value, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

If "RAS" is entered, then LVL2 PROF must be "ATA", and the AUTOQUOTE ANALOG MATE LINE fields, MATE LCEN, SCRNX, and DAS must not be entered.

1. DATA LINK GRP entries must be equal.
2. One DATA LINK NBR must be even and the other odd, with
(the odd entry) - 1 = (the even entry).

If exactly one OSPSDSL form is entered with a SERVICE CLASS of "RTRS" or "DASC", then the DATA LINK NBR must be an even number.

If "RTRS" is entered, then LVL2PR must be "RTRS" and the AUTOQUOTE ANALOG MATE LINE fields:

MATE LCEN, SCRIN IDX, and DAS must not be entered.

TAOPER - For 5E6 and later, if "TAOPER" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form.

If "TAOPER" is entered, then the AUTOQUOTE ANALOG MATE LINE fields: MATE LCEN, SCRIN IDX, and DAS must not be entered.

XDB - See also **OAP**. If "XDB" is entered and FIRMWARE CLI is not entered then LVL2 PROF must be "ISDN", and the AUTOQUOTE ANALOG MATE LINE fields (MATE LCEN, SCRIN IDX, and DAS) must not be entered. If FIRMWARE CLI is entered, then LVL2 PROF must be "ATA" and the AUTOQUOTE ANALOG MATE LINE fields must not be entered.

OSPSDSL forms with a SERVICE CLASS of "XDB" require corresponding AMLBDSL forms (5447 Records) with matching LCENs.

A maximum of 160 DSLs with a SERVICE CLASS of "XDB" can be assigned to one SM (first three digits of LCEN) on OSPSDSL forms.

DATA LINK NBR must be entered and be in the range of 1-2015.

For 5E14 and earlier, DATA LINK GRP must be entered and in the range of 1 - 2000. For 5E15 and later, DATA LINK GRP must be entered and in the range of 1 - 8191. For each unique DATA LINK GRP where the corresponding SERVICE CLASS is "XDB", the value must also appear in the MLHG field on an MLHG form (5110 Record). Additionally, the MLHG must have an MLHG FEATURE which appears in the FEATURE field on an MLHGFD form (5604 Record) where the HUNT TYPE field is "PSUCD".

For 5E6 and later, if "XDP" is entered, then OSPS PSM must be "Y" on the corresponding EQIM form. Forms correspond if the SM on the EQIM form matches the first 3 digits of the LCEN on this form.

2.4 # ISCN

Description: Enter a valid 6-digit packet ISCN (Integrated Services Channel Number) DSL location. The PSU (Protocol Handler) Shelf number must correspond to a shelf on the EQPSU form which has a SHLF SIDE 0/1 EQST of "O".

Each CHL GRP (DSL GROUP) corresponds to a PROTOCOL HANDLER assigned to the PSU SHELF on the EQPSUPH form (5742 Record) with the SWITCHING MODULE equal to this SM and the PSU SHELF equal to the PSU Protocol Handler shelf number.

The CHL is the PSU Protocol Handler member number within the Protocol Handler.

Required Field.

Valid Entries: 6-digit packet ISCN with the following format:

INTEGRATED SERVICES CHANNEL NUMBER			
Equipment		Format	Valid Entries
Shelf	SHELF	X	0 - 4
Channel Group	CHL GRP	XX	00 - 15
Channel	CHL	XXX	5E4(2) and later 000 - 127

Data Rules:

Any combination of SHELF and CHL GRP entered on this form must be defined on an EQPSUPH form.

Each ISCN entry must have the SHELF value (the first character of the ISCN) assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

Duplicate ISCNs may not be assigned. ISCNs cannot be duplicated on one or more of the following forms:

AMLBDSL
 CCLNK
 DSL
 DSLAP
 DSLUSR
 MDLNK
 MISLINK
 ODBRES
 OSPSDSL
 PSISM
 RTERM
 TRUNK
 XAT

If an SM/ISCNs combination has been assigned, then the corresponding combination of SM, PSU, PSU SHELF and GRP must be entered on the PSUGP form.

For 5E4(2) and later, if "PH16" is entered in the PROTOCOL HANDLER TYPE field of the EQPSU form, then the CHL portion of the ISCN entry must be in the following ranges: 000 - 003; 006 - 009; or 012 - 015. If the SHELF (on the SM where digital subscriber lines are assigned) has 16-channel Protocol Handler packs, the CHL sub-field is limited to the range of 000 - 015.

A duplicate combination of the SM entry (first three digits of the LCEN field) and the first three digits of ISCN is not allowed. Note that if the last three digits of the ISCN field are "000", that combination of SM and the first three digits of the ISCN entry (SHELF and CHL GRP) cannot be assigned on any other form.

The combination of the first three digits of the LCEN field and the first three digits of the ISCN field must be unique within the switch.

The first three digits of the LCEN field and the first three digits of the ISCN field may not be duplicated in the first three digits of the DEN field and the first three digits of the ISCN field, respectively, on a TRUNK form (5204 Record).

The following forms can share an ISCN SHELF and CHL GRP (the first three characters of the ISCN) with ISCNs from other forms from this set in the same SM:

AMLBDSL
 DSL
 DSLAP
 DSLUSR
 MISLINK
 ODBRES
 OSPSDSL
 RTERM
 XAT

with all TRUNK forms which have a TRKCLS of:

- "EDSL"
- "IFTERM"

- "IFOPER"

However, they can not have an ISCN SHELF and CHL GRP which are mixed with Protocol Handler assignments from PSISM forms, PSULNK forms, or TRUNK forms which have a TRKCLS of

"PACKET"
 "PKTPIPE"
 "SPCHNDLR"
 "X75"
 "X75P"

A maximum of 128 ALCBs (Access Link Control Blocks) can be used per SM, Shelf and Channel Group. The following applications use one ALCB:

- AMLBDSL - first three digits of ISCN where SERVICE CLASS is "XDB" on a corresponding OSPSDSL form
- DSL - where SHELF/CHL GRP is the first three digits of PPB1 ISCN or PPB2 ISCN
- DSLUSR
 - where SHELF/CHL GRP is the first three digits of D ISCN on a corresponding DSL form.
 - where SHELF/CHL GRP is the first three digits of ODB ISCN1 or ODB ISCN2,
- MISLINK - where SHELF and CHL GRP are the SHELF and CHL GRP fields (respectively) on the form.
- OSPSDSL - where SHELF/CHL GRP is the first three digits of ISCN where SERVICE CLASS is "TAOPER" or "DAOPER".
- XAT - where SHELF/CHL GRP is the first three digits of ISCN.

Each SM (Switching Module) can have up to 5 PSU SHELFs. On the EQIM form, when UNIT TYPE is not "SM2000" each PSU SHELF can be assigned up to (32 times X) time slots for the following table of applications. (Note: X represents the number of PIDBs, 0 to 4, provisioned per shelf.)

Timeslots Reserved for Applications	
Application	Definition
EDSL	TRKCLS set to "EDSL" on the TKGRP form
IFOPER	TRKCLS set to "IFOPER" on the TKGRP form
IFTERM	TRKCLS set to "IFTERM" on the TKGRP form
IP	TRKCLS set to "PACKET" on the TKGRP form
ISM	PSISM
PKTPIPE	TRKCLS set to "PKTPIPE" on TKGRP form
RISLU B Channel	DSL and AMLBDSL
RISLU D Channel	DSL, DSLAP, MISLINK, and OSPSDSL
RPA	Defined by setting BRI RDTA PIDB TS to a non-zero value SPCHNDLR
X.25	XAT
X75	TRKCLS set to "X75" on the TKGRP form
X75P	TRKCLS set to "X75P" on the TKGRP form

For 5E10 and later, each DI (Data Interface) in an SM can have a maximum of 256 nailed-up timeslots reserved for the applications listed in the preceding table (except for the RPA application). These time slots can be reserved by setting rows RPTSS0 to RPTSS7 to 1 on the EQPSU form. The quantity of time slots reserved (i.e. the number set to 1) must be greater than or equal to the quantity of time slots assigned for the

following applications. Note that a D channel only takes a quarter of a time slot. This data rule is not executed on an SM-2000, because provisioning of nailed-up timeslots is not required on an SM2000.

2.5 FIRMWARE CLI

Description: Enter the firmware CLI (Change Level Indicator) of the equipment assigned to this LCEN. This diagnostic value is transmitted to the switch upon initialization of the BST and VDT (Video Display Terminal) units.

Default: 000000000

Valid Entries: 000000000

Data Rules:

An entry in this field is not allowed if the SERVICE CLASS is "XDB".

2.6 D RELPIDB

Description: Enter the ISLU D-channel packet switching Peripheral Interface Data Bus number.

Software Release: 5E4(2) and later

Valid Entries: 2 - 11

Data Rules:

Do not enter a value if the LCEN is defined on a RISLU; RISLUs do not have D RELPIDB.

If an entry is made in the D RELPIDB field, then entries must also be made in the TIMESLOT and QTR TS fields. Conversely, if one of these fields is left blank, they all must be blank; ODA will assign the appropriate values.

The combination of D RELPIDB, TIMESLOT and QTR TS fields on this form must not be duplicated on any DSL, DSMLHLN, DSLAP or other OSPSDSL forms.

Entries in the D RELPIDB field must be assigned on the EQISLU form with a PIDB TYPE of "PSU" and a SHELF matching the first digit of the ISCN entry on this form.

2.7 TIMESLOT

Description: Enter the D-channel time slot.

Software Release: 5E4(2) and later

Valid Entries: 0 - 31

Data Rules:

If a TIMESLOT value is entered, it must not equal the LGC portion of the LCEN value plus 16. The LGC is the fifth and sixth digits of the LCEN. The control time slot is the LGC. There must be two control time slots per time slot (an LGC and an LGC + 16).

Do not enter a value if the LCEN resides on a RISLU.

If an entry is made in the TIMESLOT field, then entries must also be made in the D RELPIDB and QTR TS fields. Conversely, if any of these three fields are left blank, they all must be blank; ODA will assign the appropriate values. The combination of D RELPIDB, TIMESLOT and QTR TS fields on this form must not be

duplicated on any DSL, DSMLHLN, DSLAP or other OSPSDSL forms.

For 5E8 and later, the LCEN's assigned on the AMLBDSL, DSLAP or OSPSDSL forms, or DSL OE's on the DSL form or OE's on the MISLINK form can not have their D and/or BChannels assigned to conflicting DPIDB time slots or quarter time slots due to manual (vs ODA) time slot assignments. Each SM/ISLU or SM/IDCU DPIDB time slot may be assigned only once. (Note, D channels are allocated to quarter time slots; therefore up to four unique assignments can be made before a time slot is considered full.

When making manual assignments, care must be taken to use assignments as shown in Figure 1, TIMESLOT Assignment vs LGC and D RELPIDB. For example, if manual assignments are being made and the D RELPIDB selected is 11 and the LGC from the OE is 0, then the TIMESLOT assignment must be 1, 9, 17, or 25. B and/or D channel assignments made manually cannot conflict with the ODA assignment algorithm. The ODA algorithm is allocated 4 time slots per DPIDB per SM/ISLU/LGC. The LGCs 00 thru 07 are allocated time slots on the odd numbered DPIDBs while LGCs 08 thru 15 are allocated time slots on the even numbered DPIDBs. Manual time slot assignments do not have to follow this algorithm. However, if manual assignments are made, they will use one or more time slots. These manual assignments diminish and may conflict with the time slots available for the ODA assignment algorithm. For example, TS 1, 9, 17 and 25 are the 4 time slots that are allocated to ODA for LGC 0 in any ISLU which has a DPIDB 11 assigned. If a manual assignment is made to TS 9 on DPIDB 11 from any LGC in this ISLU there will only be 3 TS left on PIDB 11 for ODA assignments. Of course other odd numbered DPIDBs will have 4 TS for ODA assignments to LGC 0.

2.8 QTR TS

Description: Enter the D-channel quarter time slot.

Do not enter a value if the LCEN resides on a RISLU.

In order to conserve resources, the assignment of QTR TSs must be "packed." That is, all QTR TSs in a TIMESLOT must be assigned (if possible) before another TIMESLOT is used. To pack the TIMESLOTS, all D-channels on an LGC are candidates for assignments to the same TIMESLOT. No D-channels can be assigned to a TIMESLOT to which a D-channel from another LGC has been assigned.

The D-channels which are assigned to a TIMESLOT must all be in the same CHL GRP (the second and third digits of the ISCN). Furthermore, if the PROTOCOL HANDLER TYPE on the EQPSU form is "PH16," the DSL MEMBERS (the last three digits of the ISCN) of this DSL GROUP, when divided by six, must be equal (when dividing, disregard the remainder).

For example, ISCNs 106000 through 106005 could be assigned to two TIMESLOTS in any combination of two and four or three and three. However, ISCN 106006 (the next member of CHL GRP 06 assigned to SHELF 1) could not be assigned to either of these D TIMESLOTS, and neither could any other ISCN be assigned to either of these TIMESLOTS.

If "PH128" is entered in the PROTOCOL HANDLER TYPE field of the EQPSU form, then the only restriction on the ISCN is that all members assigned to a given TIMESLOT must be in the same CHL GRP, and have the same SHELF assignment (the first three digits of the ISCN must be equal).

Software Release: 5E4(2) and later

Valid Entries: 0 - 3

Data Rules:

If an entry is made in the QTR TS field, then entries must also be made in the D RELPIDB and QTR TS fields.

Conversely, if one of these three fields are left blank, they all must be blank; ODA will assign the appropriate values. The combination of D RELPIDB, TIMESLOT and QTR TS fields on this form must not be duplicated on any DSL, DSMLHLN, DSLAP or other OSPSDSL forms.

The QTR TS must be assigned to a D RELPIDB that is defined on the EQISLU form.

2.9 LVL2 PROF

Description: Level 2 parameter profile type.

Software Release: 5E6 and later

Required Field.

Valid Entries:

Valid LVL2 PROF Entries	
Entry	Definition
ATA	OSPS Administrative Terminals or Alarm circuit
BST	Terminal
BXV	On DSL B-channel: variable LAPB
DASC	OSPS Directory Assistance System/Computer term
DX	X.25 packet switching on D channel; no voice on D channel; no B channels
EIS1	External Information System profile 1
EIS2	External Information System profile 2
HOICR	OSPS Hotel Billing Information Center Record TTY
HOICV	OSPS Hotel Billing Information Center Voice Quote TTY
HOIS	OSPS Hotel Billing Information System
IFPRI	OSPS Interflow Primary Rate Interface
ISDN	Two B channels and one D channel
PKTSW	Software Release: 5E8 and later. OSPS Video Display Terminal
RTRS	OSPS Real-Time Rating System
XISDN	Voice/data on D Channel, no B Channel

Data Rules:

The following table gives the LVL2 PROF choices available with the corresponding SERVICE CLASS.

SERVICE CLASS	LVL2 PROF
DAOPER	BST or PKTSW
EIS	EIS1 for CCI EIS2 for IBM
TAOPER	BST or PKTSW

For 5E7 and later, if "ATA", "BST", "DASC", "EIS1", "EIS2", "HOICR", "HOICV", "HOIS", "RTRS" are entered, then D CHAN SERV must be "SONLY".

For 5E8 and later, an AMLBDSL form must not be submitted unless LVL2 PROF (on the corresponding OSPSDSL form with matching LCENs) is "ISDN" or "PKTSW".

ISDN - For 5E7 and later, if "ISDN" is entered, then D CHAN SERV must be "ADMIN".

A corresponding AMLBDSL form is required if "ISDN" is entered in this field. Forms correspond if the LCEN on this form and the AMLBDSL match.

PKTSW - For 5E8 and later, if "PKTSW" is entered, then D CHAN SERV must be "SX". Also, a corresponding AMLBDSL form is required if "PKTSW" is entered in this field. Forms correspond if the LCENs on this form and the LCEN on the AMLBDSL form match.

VDT - For 5E7 and later, if "VDT" is entered, then D CHAN SERV must be "SX".

2.10 D CHAN SERV

Description: Enter the type of service on a DSL D-channel.

Required Field.

Valid D CHAN SERV Entries	
Entry	Definition
ADMIN	Administration only, no Q.931 or X.25 signaling
SONLY	Q.931 signaling only
SX	Q.931 signaling and X.25 packet signaling

Data Rules:

If "ADMIN" or "SX" is entered , then a corresponding AMLBDSL form must be entered where the LCEN on that form matches the LCEN on this form.

EXTERNAL DATA LINK

The following fields (Section 2.11 - Section 2.12) define DSL data links.

The DATA LINK GRP and DATA LINK NBR fields are used to give a user-friendly "name" to groups of DSL data links. The usage is predominantly for maintenance messages. The DATA LINK GRP is used to identify the group to which the DSL data link belongs. A group must be comprised of DSL data links which are all used for the same purpose. The DATA LINK NBR is used to identify the particular member of the group.

As an example, assume that the 5ESS Switch can have, system wide, 3 groups of 20 DSL data links used for Purpose A and 2 groups of 10 DSL data links used for Purpose B. Purpose A could have DATA LINK GRPs (groups) of 1, 2 and 3 with DATA LINK NBRs (members) from 0 to 19 in each DATA LINK GRP. Purpose B could have DATA LINK GRPs (groups) of 1 and 2 with DATA LINK NBRs (members) from 0 to 9 in each DATA LINK GRP. Notice that using the same group number is not an error if the groups are for different purposes.

However, for an EIS (External Information System), the EIS NBR is the same no matter what the SM is. All group numbers are the same but the data link number could be 0 - 3 on one SM or 4 - 7 on another SM.

The following table defines the allowable entries for the DATA LINK GRP and DATA LINK NBR fields based on the SERVICE CLASS.

SERVICE CLASS	DATA LINK GRP	DATA LINK NBR
AQDSL	1	0 - 15
DASC	1 - 999	5E4(2) and later 0 - 4096
EIS	1 - 16	0 - 999
HOBICR	1 - 999	0 - 4096
HOBICV	1 - 999	0 - 4096
HOBIS	1 - 999	0 - 4096
OAP	5E7 and later 1 - 32	0 - 1
RAS	500 - 999	0 - 4096
RTRS	1 - 999	0 - 4096
XDB	5E14 and earlier: 1 - 2000 5E15 and later: 1 - 8191	1 - 2015

2.11 DATA LINK GRP

Description: Enter the data link DSL external name identification. The valid entries are shown in the preceding table under EXTERNAL DATA LINK.

Software Release: 5E3 and later

Valid Entries: 0 - 2001

Data Rules:

The following SERVICE CLASSes must not have an entry in this field: "DAOOPER" and "TAOPER".

Only two RAS DSLs can be assigned to an SM on an OSPSDSL form.

2.12 DATA LINK NBR

Description: Enter the relative link portion of the data link DSL external name.

The valid entries are shown in the preceding table under EXTERNAL DATA LINK.

Software Release: 5E3 and later

Valid Entries: 0 - 4096

Data Rules:

The following SERVICE CLASSes must not have an entry in this field: "DAOOPER", and "TAOPER".

Only 16 RAS DSLs can be assigned to an SM (first three digits of LCEN field) on OSPSDSL forms.

2.13 SM LINK NBR

Description: This is a verify only field which gives the relative link number on this SM for an EIS link.

AUTOQUOTE ANALOG MATE LINE

The following fields (Section 2.14 - Section 2.16) define analog port mate lines for AUTOQUOTE.

2.14 MATE LCEN

Description: Enter a valid LCEN value, exactly as described in the LCEN field. The MATE LCEN must define a port on a Z-card, as indicated by a selection of "ZLC" on the TYPE field of the ISLULC form.

The 5ESS Switch has a system maximum of 16 sets of DSL ports and analog port mates, joined by a modem and a terminal adaptor. ODA will not permit more than 16 OSPSDSL forms with a value entered in the MATE LCEN field.

Software Release: 5E4(2) and later

Valid Entries: See LCEN field entries

Data Rules:

This field must be entered if the SERVICE CLASS is defined as "AQDSL", and must be left blank if the SERVICE CLASS is not "AQDSL".

The MATE LCEN field must have a value that is different than the value entered in the LCEN field on this form.

The MATE LCEN must not be duplicated on any DSL, DSMLHLN, DSLAP or other OSPSDSL forms.

The SM portion of the MATE LCEN field must match the entry in the ACQS SM field of the corresponding OSPSOPT form.

2.15 SCRIN IDX

Description: Enter the Screen Index.

Software Release: 5E4(2) and later

Valid Entries: 1 - 4095

Data Rules:

This field must be entered if the SERVICE CLASS is defined as "AQDSL", and must be left blank if the SERVICE CLASS is not "AQDSL".

2.16 DAS

Description: Enter a DAS (Digit Analysis Selector) value.

Software Release: 5E4(2) and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

This field must be entered if the SERVICE CLASS is defined as "AQDSL;" this field must be left blank if the SERVICE CLASS is not "AQDSL."

The value entered in this field must also be entered in the DIGIT ANALYSIS SELECTOR field on a DAS form (5300 Record).

TS	LGC															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0				3	5	7	9	11				2	4	6	8	10
1	11				3	5	7	9	10				2	4	6	8
2	9	11				3	4	7	8	10				2	4	6
3	7	9	11				3	5	6	8	10				2	4
4	5	7	9	11				3	4	6	8	10				2
5	3	5	7	9	11				2	4	6	8	10			
6		3	5	7	9	11				2	4	6	8	10		
7			3	5	7	9	11				2	4	6	8	10	
8				3	5	7	9	11				2	4	6	8	10
9	11				3	5	7	9	10				2	4	6	8
10	9	11				3	4	7	8	10				2	4	6
11	7	9	11				3	5	6	8	10				2	4
12	5	7	9	11				3	4	6	8	10				2
13	3	5	7	9	11				2	4	6	8	10			
14		3	5	7	9	11				2	4	6	8	10		
15			3	5	7	9	11				2	4	6	8	10	
16				3	5	7	9	11				2	4	6	8	10
17	11				3	5	7	9	10				2	4	6	8
18	9	11				3	4	7	8	10				2	4	6
19	7	9	11				3	5	6	8	10				2	4

20	5	7	9	11				3	4	6	8	10				2
21	3	5	7	9	11				2	4	6	8	10			
22		3	5	7	9	11				2	4	6	8	10		
23			3	5	7	9	11				2	4	6	8	10	
24				3	5	7	9	11				2	4	6	8	10
25	11				3	5	7	9	10				2	4	6	8
26	9	11				3	4	7	8	10				2	4	6
27	7	9	11				3	5	6	8	10				2	4
28	5	7	9	11				3	4	6	8	10				2
29	3	5	7	9	11				2	4	6	8	10			
30		3	5	7	9	11				2	4	6	8	10		
31			3	5	7	9	11				2	4	6	8	10	

Figure 1 TIMESLOT ASSIGNMENT VS LGC AND D RELPIDB ENTRIES

```

                                5ESS Switch
ospdsdl      OFFICE DATA ADMINISTRATION
(5411)        OSPS DIGITAL SUBSCRIBER LINE

*1. LCEN      00300016      EXTERNAL DATA LINK
#2. SERVICE CLASS EIS
#3. ISCN      000008      10. DATA LINK GRP 0001
4. FIRMWARE CLI 000000000 11. DATA LINK NBR 0014
5. D RELPIDB  ————      SM LINK NBR
6. TIMESLOT   ————
7. QTR TS     ————      AUTOQUOTE ANALOG MATE LINE
#8. LVL2 PROF EIS1
#9. D CHAN SERV ONLY      12. MATE LCEN ————
                                13. SCRN IDX ————
                                14. DAS ————

```

Figure 2 SAMPLE OSPSDSL FORM 5E7 - 5E14 SOFTWARE RELEASES

```

                                5ESS Switch
ospdsdl      OFFICE DATA ADMINISTRATION
(5411)        OSPS DIGITAL SUBSCRIBER LINE

*1. LCEN      _____      EXTERNAL DATA LINK
#2. SERVICE CLASS _____      -----
#3. ISCN      _____      10. DATA LINK GRP _____
4. FIRMWARE CLI _____      11. DATA LINK NBR _____
5. D RELPIDB  _____      SM LINK NBR
6. TIMESLOT   _____
7. QTR TS     _____      AUTOQUOTE ANALOG MATE LINE
8. LVL2 PROF  _____      -----
#9. D CHAN SERV _____      12. MATE LCEN _____
                                13. SCRN IDX _____
                                14. DAS _____

```

Figure 3 SAMPLE OSPSDSL FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4M: 5412 RECORD

OSPS ACD CALLTYPE FORM - ACDCTP

OSPS ACD CALLTYPE POOL FORM - ACDPOL

1. GENERAL

The 5412(A-F) Records are available for the 5E4(2) Software Release. This record(s) is used to assign call type information for the OSPS ACD (Automated Call Distribution) feature. Figure 1 shows expected values and combinations for various fields. Deviations from the table entries will induce a warning message.

1.1 Automatic Call Distribution

All OSPS calls require that operator/agent assistance use the ACD software. The ACD matches operator requests with operators by maintaining the status of all operator positions on the switch and the status of all calls awaiting operator assistance. ACD allows switch administrators to separate incoming operator assistance traffic into distinct call type queues that can be handled by distinct teams of operators.

1.2 Toll And Assistance

Toll and Assistance calls arrive on ISP (Intermediate Switch Point) and CAMA (Centralized Automatic Message Accounting) trunks. Call type determination is done based upon how the call arrived at the OSPS, the way that the call was dialed, and whether this is an initial call or a recall. The 5412(A-F) Records are used to select a call type queue based on the details of the call arrival. Once the queue has been determined, the serving team and operator are selected in the same manner as for Directory Assistance calls.

1.3 Interflow

For the 5E5 and later Software Releases, Toll and Assistance calls may be interflowed from one OSPS office to another OSPS office. For information on the Interflow feature, refer to the OSPS Toll and Assistance feature section in Division 2, Section 3E. For these incoming interflow calls, the ACD has been expanded to provide more detailed screening of the call characteristics. This additional screening is provided by the ACDPOL form. This additional screening, provided by the ACDPOL form, is used when the incoming TGN or CDI information necessary to determine if the call type resides in some other OSPS switch (i.e., not the OSPS switch which is determining how the call should be handled). For incoming calls that are not interflowed from another OSPS switch the information provided in the ACDCTP form should be sufficient to determine the call type.

Please reference the OSPS Automatic Call Distributor feature section for more detailed information concerning the use of the ACDCTP and ACDPOL forms and their dependencies.

1.4 Listing Services Intercept

These forms are needed for Listing Services Intercept feature, even though an operator is not needed to handle the call.

1.5 Recent Change View

For 5E7 and later, the corresponding Recent Change Views for these forms is 26.9 and 26.10.

2. ACDCTP FORM - 5412-A/D RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * CALL ORIGIN

Description: Enter the originating class of the call (how the call arrived at the switch). A call could come in over an ISP trunk, a system CAMA trunk or a transfer CAMA trunk. An inward call from another operator can arrive over some other type of inward trunk.

For an "AIS" call, if an intercept call arrives and a destination index is not found for the call on the AISCLS form, then the intercept treatment will be based on the call origination data (SECOND LEVEL is "DEST"), or on the call origination data and incoming trunk group (SECOND LEVEL is "TGRP").

Software Release: 5E5 and later

Required Field.

Valid Entries:

Valid CALL ORIGIN Entries	
Entry	Definition
AIS	Software Release: 5E6(2) and later. Incoming intercept calls.
AP	Software Release: 5E9(2) and later. Automated Position Call
CDSU	Software Release: 5E11 and later. This value was "ORIG2" for 5E10. AATLSOS - AAP (Alternate Access to Language Specific Operator Services - Automatic Access Prompting) Service. This value supports the AATLSOS AAP Using CPDL (Call Processing Data Link) Interface. For more information on this feature, see Division 2, Section 4A412.
DA2VDT	DA call to a VDT (Video Display Terminal).
ICS	Software Release: 5E11 and later. Inmate Calling Service. This value supports the ICS (Inmate Calling Service) feature. For more information on this feature, see Division 2, Section 4A385.
INW	Inward. An inward call occurs when a local operator routes a call to a distant operator for information concerning the call. The distant operator may then assist the calling party (busy line verification, etc.). The inward operator is the distant operator.
ISP	Intermediate Switching Point (4x Tandem). A trunk class of FIOPR on the TKGRP form (5202 Record) and a CDI entry of 0 (zero) on the DIOPR form (5418 Record) will enter the OSPS ACD as an ISP call. The most common call arrives on an ISP trunk.
LSTA	Software Release: 5E6(2) and later. Listing Services call using a TA (Toll and Assist) OT (Originating Treatment).
NIT	Non-ISP Non-TA call to a VDT (Video Display Terminal).
OPI	OSPS Operator-initiated. This includes delayed calls and conference calls with another operator when no forward/back party is connected (both internal and external operators).
ORIG2	Software Release: 5E10 only See "CDSU".
ORIG3	Software Release: 5E9(2) - 5E10 Inmate Calling Service. This value was changed to ICS for 5E11. See ICS for data rules. See Division 2, Section 4A385 for more information on the Inmate Calling Service feature.
RES	Residual Call. A residual call occurs when an OSPS operator is recalled by a mobile or marine operator to collect money from the calling party.
SPCL700	Software Release: 5E7 and later. A specialized 700 number. This entry supports the Specialized Handling for 700 Services secured features. For more information on these features, see Division 2, Section 4A69 and Section 4A89.
SYS	CAMA System. This occurs when the local office cannot identify the back number.
XFER	Transferred through CAMA (Centralized Automatic Message Accounting).

Data Rules:

Figure 1 gives the entry combination values for CALL ORIGIN values.

General:

For 5E10 and later:

Unless the CALL ORIGIN is

"CDSU"
"ICS"
"ORIG2"
"ORIG3"
"SPCL700"

every ACDCTP form must have a corresponding OSPSCT form with OSPS CALL TYPE equal to CALL TYPE.

If CALL ORIGIN is not one of the following

"CDSU"
"ICS"
"ORIG3"
"SPCL700"

then CALL TYPE must be less than 129.

For 5E11 and later, CALL TYPE in the NEXT CALL TYPE POOL LIST on the ACDPOL form must be less than 129 if CALL ORIGIN is not "CDSU"

- "ICS"
- "ORIG2"
- "ORIG3"
- "SPCL700"

on the ACDCTP form. ACDCTP form is found by matching PRE CALL ID on ACDCTP form with the PRE CALL ID on the ACDPOL form.

For 5E13 and later:

When CALL ORIGIN on the ACDCTP form is not "SPCL700", "CDSU", or "ICS", CALL TYPE must be less than 129.

At least one ACDCTP form must be submitted for each FLEXACD form.

AIS - If "AIS" is entered:

- DISPLAY INDEX must be entered.
- PREFIX must be "NULLP".
- CARRIER must be "UKWN".
- OSPSID must be 0.
- COIN must be "N".
- either SECOND LEVEL must not be "NONE", or ACD EXPRESSION must not be "Q".
- APOS CALL TYPE must not be entered.

- For 5E8 and later, a SERVDATA form must be entered with OSPS SVC CODE of "INCPT" or "IBMINCPT". (SVC ID of SERVDATA form is matched with SVC ID of OSPSCT form to find SERVDATA form. OSPS CALL TYPE of OSPSCT form is matched with CALL TYPE of ACDCTP form to find OSPSCT form) .
- Conversely if CALL ORIGIN is not "AIS", OSPS SVC CODE cannot be
 "IBMINCPT"
 "INCPT"
 "INMATE"
 "SPCL700"
 "SRVC7" (5E10 and earlier).
- For 5E13 and later, there must be an OSPSCT form where CALL TYPE on the FLEXACD form matches OSPS CALL TYPE on the OSPSCT form. Then SVC ID on the OSPSCT form must match the SVC ID on a SERVDATA form. Additionally, OSPS SVC CODE on the SERVDATA form must be "INCPT" or "IBMINCPT".

AIS or LSTA:

If "AIS" or "LSTA" is entered in CALL ORIGIN the following data rules apply:

- and PRE CALL ID is entered, CALL ORIGIN must be the same on all ACDCTP forms with the same PRE CALL ID.
- SVC ID must be entered on the OSPSCT form. An OSPSCT form is required for each ACDCTP form where OSPS CALL TYPE on the OSPSCT form matches CALL TYPE on the ACDCTP form. OPER TYPE must be "TA" on that OSPSCT form.
- SVC ID of OSPSCT form must be the same as the SVC ID of SERVDATA form. (OSPS CALL TYPE of OSPSCT form is matched with CALL TYPE of ACDCTP form.) Conversely if "AIS" or "LSTA" is not entered for CALL ORIGIN, SVC ID must not be entered on the OSPSCT form.
- If APOS CALL TYPE is entered on the ACDPOL form, CALL ORIGIN must not be "SPCL700", "LSTA" or "AIS" on the corresponding ACDCTP form. The forms correspond if the PRE CALL ID field of ACDPOL form matches the PRE CALL ID field of ACDCTP form.

AP

For 5E9(1) only if AP is entered:

PREFIX must be "NULLP"

SECOND LEVEL must be "DEST"

CDSU

If "CDSU" is entered,

APOS CALL TYPE cannot be entered

DISPLAY INDEX cannot be entered
OSPS ID must be 0

For 5E10 only, if "ORIG2" is entered, a SERVDATA form must be entered where SVC ID on the SERVDATA form matches CALL TYPE on the ACDCTP form and OSPS SVC CODE on the SERVDATA form is "SRVC8".

For 5E11 and later, if "CDSU" is entered, a SERVDATA form must be entered where SVC ID on the SERVDATA form matches CALL TYPE on the ACDCTP form and OSPS SVC CODE on the SERVDATA form is "AAP" .

DA2VDT

If "DA2VDT" is entered:

- PREFIX must be "NONE".
- CARRIER must not be "UNKWN".
- DISPLAY INDEX must be entered.

ICS (or ORIG3):

If "ICS" is entered, then:

- OSPS ID must be 0
- APOS CALL TYPE must not be entered
- DISPLAY INDEX must not be entered
- a SERVDATA form must be submitted where SVC ID on the SERVDATA form matches CALL TYPE on the ACDCTP form and OSPS SVC CODE on the SERVDATA form must be "INMATE" ("SRVC7" for 5E10 and earlier).

INW - If "INW" is entered:

- PREFIX must be "NULLP".
- COIN must be "N".
- CARRIER must be "DC".
- DISPLAY INDEX must not be entered.

ISP - If "ISP" is entered:

- DISPLAY INDEX must not be entered.

LSTA - If "LSTA" is entered:

- DISPLAY INDEX must be entered.
- OSPSID must be 0.

- APOS CALL TYPE must not be entered.

For 5E13 and later, at least one ACDCTP form must be submitted for each FLEXACD form, where PRE CALL ID on the ACDCTP form matches the PRE CALL ID on the FLEXACD form.

OPI - If "OPI" is entered:

- PREFIX must be "NULLP", 0, or "0M".
- COIN must be "N".
- CARRIER must be "DC".
- DISPLAY INDEX must not be entered.
- SECOND LEVEL must be "NONE".
- For 5E13 and later, ACD EXPRESSION must equal "Q".

RES

If "RES" is entered:

- DISPLAY INDEX must not be entered.
- For 5E13 and later, ACD EXPRESSION must equal "Q".

SPCL700 - If "SPCL700" is entered:

- OSPS ID must be 0.
- APOS CALL TYPE must not be entered.
- DISPLAY INDEX must not be entered.
- For 5E8 and later, a SERVDATA form must be submitted where SVC ID on the SERVDATA form matches CALL TYPE on the ACDCTP form and OSPS SVC CODE on the corresponding SERVDATA form must be "SPCL700" .
- A SERVDATA form must be submitted where SVC ID on the SERVDATA form matches the CALL TYPE field in the NEXT CALL TYPE POOL LIST on the ACDPOL form, and OSPS SVC CODE on the SERVDATA form must be "SPCL700".
- OSPS SVC CODE on the corresponding SERVDATA form must be "SPCL700". SVC ID on the SERVDATA form matches CALL TYPE in the NEXT CALL TYPE POOL LIST on the ACDPOL form. ACDPOL form is found by matching PRE CALL ID on the ACDCTP form with the PRE CALL ID on the ACDPOL form.
- When PRE CALL ID is entered on one ACDCTP form, and the CALL ORIGIN is "SPCL700", CALL ORIGIN must be "SPCL700" on all ACDCTP forms with the same PRE CALL ID entered.
- For 5E13 and later, a SERVDATA form must be found where CALL TYPE on the FLEXACD form

matches the SVC ID on the SERVDATA form. The OSPS SVC CODE on this SERVDATA form must be "SPCL700".

SYS - If "SYS" is entered:

- PREFIX must be "NULLP" or 1. If PREFIX is "NULLP",

CARRIER must be "DC". If PREFIX is 1, CARRIER must be "IC", "LEC", or "UNKWN".

- COIN must be "N".
- DISPLAY INDEX must not be entered.

XFER - If "XFER" is entered:

- PREFIX must be "NULLP".
- COIN must be "N".
- CARRIER must be "DC".
- DISPLAY INDEX must not be entered.
- SECOND LEVEL must not be "DEST".
- For 5E13 and later, ACD EXPRESSION cannot contain call property type "D".

2.3 * PREFIX

Description: Enter the prefix that was originally dialed on the call.

Software Release: 5E5 and later

Required Field.

Valid Entries:

Valid PREFIX Entries	
Entry	Definition
0	0+ was dialed
1	1+ was dialed
NULLP	Don't care what prefix was dialed
NONE	No prefixed digits are dialed
0M	0- was dialed
01	Dial "01 + international"
011	Dial "011 + international"

Data Rules:

Figure 1 shows valid combinations of CALL ORIGIN, PREFIX, COIN, and CARRIER fields.

If the entry in the CALL ORIGIN field is "DA2VDT" or "NIT", then the entry in the PREFIX field must be "NONE".

If the entry in the CALL ORIGIN field is "INW" or "XFER", then the entry in the PREFIX field must be "NULLP".

If the entry in the CALL ORIGIN field is "OPI", then the entry in the PREFIX field must be "0", "NULLP" or "0M".

If the CALL ORIGIN is "SYS" and the CARRIER is "DC", then the PREFIX must be "NULLP".

If the CALL ORIGIN is "SYS" and the CARRIER is "IC", "LEC" or "UNKWN", then the PREFIX must be 1.

2.4 * COIN

Description: Is the incoming call a coin call?

Software Release: 5E5 and later

Required Field.

Valid Entries: Y, N

Data Rules:

Figure 1 shows valid combinations of CALL ORIGIN, PREFIX, COIN, and CARRIER fields.

If the entry in the CALL ORIGIN field is "INW", "OPI", "SYS", "AIS", or "XFER", then the entry in the COIN field must be "N".

2.5 * CARRIER

Description: Enter the type of carrier associated with the incoming call.

Software Release: 5E5 and later

Required Field.

Valid Entries:

Valid CARRIER Entries	
Entry	Definition
DC	Don't care about the carrier type
IC	Interexchange Carrier
LEC	Local Exchange Carrier
UNKWN	Unknown Carrier type

Data Rules:

Figure 2 shows valid combinations of CALL ORIGIN, PREFIX, COIN, and CARRIER fields.

If the associated CALL ORIGIN is equal to "NIT" or "DA2VDT", the CARRIER must not be set to "UNKWN".

If the entry in the CALL ORIGIN field is "INW", "OPI", "SYS" or "XFER", the entry in the CARRIER field must be "DC".

2.6 * OSPS ID

Description: Enter the OSPS Switch ID from where the call originated. This OSPS Switch ID uniquely identifies the OSPS Switch from which an interflow call originated.

Software Release: 5E5 and later

Required Field.

Default: 0

Valid Entries: 0 - 9999

Data Rules:

If the call in question originates from a non-interflow OSPS Switch, then this field should be set to 0.

If the OSPS ID field is set to any number greater than zero, then an INFLTAP form must exist with an entry in the OSPS LIST field that equals the OSPS ID field. This check ensures that the OSPS office identified here is the one sending information to this OSPS switch.

2.7 # CALL TYPE

Description: Enter the CALL TYPE number that is to be used to route the incoming call to the proper serving team. For 5E8 and later, enter the call type or the Service ID number for Listing Services.

Software Release: 5E5 and later

Required Field.

Valid Entries:

For 5E8 and later: 1 - 1023

Data Rules:

Every CALL TYPE entered on this form must have a corresponding OSPSCT form with a matching OSPS CALL TYPE field. In addition, the OPER TYPE on the corresponding OSPSCT form must be set to "TA".

For 5E8 and later, every Service ID entered on this form must have a corresponding SERVDATA form with a matching SVC ID field.

2.8 PRE CALL ID

Description: Enter the TA (Toll & Assistance) Pre Call ID used to link the call type determination information contained upon this ACDCTP form to a common pool of expanded call type information defined on the ACDPOL form, based on the trunk group number and/or destination index of the incoming call.

Software Release: 5E5 and later

Valid Entries: 1 - 127

Data Rules:

Enter a number from 1 to 127 if the incoming calls associated with this CALL ORIGIN reference the pool of common information of expanded call types, otherwise leave blank.

If this field is left blank, then the SECOND LEVEL field must be set to "NONE". If a PRE CALL ID value is entered, then the SECOND LEVEL field must be set to "TGRP" or "DEST".

If PRE CALL ID is entered on one ACDCTP form, and the CALL ORIGIN is

"CDSU"

"ICS"

"ORIG2"

"ORIG3"

"SPCL700"

the CALL ORIGIN value must be the same on all of the ACDCTP forms with the same PRE CALL ID value.

For 5E13 and later:

When PRE CALL ID is entered and SECOND LEVEL is "NONE", ACD EXPRESSION must not be "Q".

When PRE CALL ID is not entered, SECOND LEVEL must be "NONE" and ACD EXPRESSION must be "Q".

2.9 DISPLAY INDEX

Description: This is the DA to VDT (Video Display Terminal) and Non-ISP calls VDT display index. The default value for this field is blank, meaning that no VDT displays are required.

Software Release: 5E5 and later

Valid Entries: 1 - 276

Data Rules:

DISPLAY INDEX must be entered if CALL ORIGIN is "AIS", "DA2VDT", or "NIT".

DISPLAY INDEX cannot be entered if CALL ORIGIN is "INW", "INW", "RES", "ISP", or "OPI".

If CALL ORIGIN is equal to "NIT" or "DA2VDT", then this field must contain a number from 1 to 276. In addition, if this field is set to 0 or 1, a corresponding OBSTS form with a matching BST DISPLAY INDEX must be found.

2.10 APOS CALL TYPE

Description: Enter the call type to be served by the Automated Position.

Software Release: 5E7 and later

Valid Entries: 1 - 128

Data Rules:

The APOS CALL TYPE field is used by the Automated Position feature, which is a Secured Feature and must be purchased before it can be assigned. FEATURE ID 65 on the SFSYS form must be set to "S" or "Y", before APOS CALL TYPE can be entered.

APOS CALL TYPE must not be entered if CALL ORIGIN is "SPCL700", "AIS" or "LSTA".

If the APOS CALL TYPE is entered on this form, then there must be an OSPSCT form (5404 Record) where the OSPS CALL TYPE on an OSPSCT form must match the APOS CALL TYPE on this form. In addition, the OPER TA must be "TA" and the SVC ID must not be entered on the OSPSCT form.

2.11 SECOND LEVEL

Description: This field indicates if a second level of call screening information is required to determine the call type associated with this incoming call.

Software Release: 5E5 and later

Required Field.

Default: NONE

Valid Entries:

Valid SECOND LEVEL Entries	
Entry	Definition

DEST	Expanded call determination based on an incoming CDI
NONE	Expanded call determination is not required
TGRP	Expanded call determination based on an incoming TGN

Data Rules:

If CALL ORIGIN is equal to "OPI", then SECOND LEVEL must equal "NONE".

If CALL ORIGIN is equal to "XFER", then SECOND LEVEL cannot be equal to "DEST".

If the PRE CALL ID field contains an entry, then "DEST" or "TGRP" must be entered in the SECOND LEVEL field; if the PRE CALL ID field does not contain an entry, then "NONE" must be entered in the SECOND LEVEL field.

3. ACDPOL FORM - 5421B/C/E/F RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

3.2 * PRE CALL ID

Description: This is the TA (Toll & Assistance) Pre Call ID which is used to link the expanded call type determination common pool information contained in this ACDPOL form back to the call type determination information defined upon the ACDCTP form. This record is used when more specific screening of the incoming call's characteristics is required to determine the call type associated with this call.

Software Release: 5E5 and later

Required Field.

Valid Entries: 1 - 127

Data Rules:

At least one NEXT CALL TYPE POOL LIST entry must be entered on each ACDPOL form entry.

For any value of PRE CALL ID entered on the ACDPOL form, a corresponding ACDCTP form with a matching PRE CALL ID value must be found. Duplicate TGN/CDI entries for each unique PRE CALL ID value are not allowed.

If the PRE CALL ID of the ACDPOL form matches the PRE CALL ID of the ACDCTP form, CALL ORIGIN cannot be "LSTA" or "AIS", and APOS CALL TYPE cannot be entered.

The PRE CALL ID entered on the ACDPOL form cannot have a corresponding PRE CALL ID and CALL ORIGIN of entry "AIS" on the ACDCTP form when DEST IDX is known on OSPSOPT form. (ACDPOL form is found by matching DEST IDX of OSPSOPT with the TGN/CDI of NEXT CALL TYPE POOL LIST of ACDPOL form)

3.3 * SEQ NO

Description: This sequence number allows the user to enter multiple lists associated with the same PRE CALL ID. Start with the value 1 and advance the value sequentially until all required TGNs or CDIs associated with this PRE CALL ID have been entered.

Software Release: 5E5 and later

Required Field.

Valid Entries: 1 - 1314

NEXT CALL TYPE POOL LIST

This is a list of the various TGNs and CDIs that may be associated with a particular PRE CALL ID. For any list entries entered, the following fields (Section 3.4 - Section 3.9) must contain valid data.

3.4 TGRP/DEST

Description: This field indicates whether the information on this list entry is defining TGN or CDI call screening call characteristics that are to be used to determine the call type associated with this PRE CALL ID.

Software Release: 5E5 and later

Valid Entries:

Valid TGRP/DEST Entries	
Entry	Definition
DEST	Expanded call determination based on an incoming CDI.
TGRP	Expanded call determination based on an incoming TGN.

Data Rules:

For 5E10 and earlier, if TGRP/DEST is equal to "TGRP", then THIRD LEVEL can only equal "NONE" or "DEST" and TGN/CDI must be in the range of 1 - 2000. If TGRP/DEST is equal to "DEST", then THIRD LEVEL can only equal "NONE" or "TGRP" and TGN/CDI must be in the range of 1 - 4095.

For 5E11 and later, when TGRP/DEST is "TGRP", TGN/CDI must be 1 - 4000.

3.5 TGN/CDI

Description: For TGRP/DEST equal to "TGRP", enter the incoming TGN (Trunk Group Number) of the incoming call. For TGRP/DEST equal to "DEST", enter the CDI (Destination Code Index) for the incoming call.

When a call is interflowed to the receiving switch, the sending switch's FIOPR TGN number is used by the receiving switch for expanded call type determination.

If the receiving switch has an FIOPR TGN with the same TGN number as the sending switch, a conflict may result unless precautions are made. The following will prevent problems when the OSPS APS (Automated Position System) is added to any OSPS switch.

To resolve this conflict, the receiving switch should use the fifth key to ACDCTP form, which is the OSPS ID field. If the OSPS ID field is NOT 000, i.e., it is the OSPS ID of the sending switch, then all calls from that sending switch that match the other four keys will be controlled by the entries on the record on the receiving switch. This information can then be used to match up to a PRE CALL ID that does not use the conflicting TGN number. PRE CALL ID is on the ACDCTP form, and it is the key to the ACDPOL form.

In addition, if the OSPS ID field is 000 on the receiving switch and if there is a matching OSPS ID entry for each sending office, then all non-interflowed calls (calls that originate on the receiving switch) that match the other four keys will be controlled by the entries in this record on the receiving switch.

Software Release: 5E5 and later

Valid Entries:

For 5E10 and earlier TGN: 1 - 2000
For 5E11 and later TGN: 1 - 4000
For CDI: 1 - 4095

Data Rules:

Duplicate TGN/CDI entries for each unique PRE CALL ID value are not allowed.

When DESTINATION INDEX WITH ANI is entered on an AISCLS form, the associated ACDPOL form (where TGRP/DEST is "DEST" and TGN/CDI matches DESTINATION INDEX WITH ANI on the AISCLS form) must have its PRE CALL ID value match the PRE CALL ID on an ACDCTP form. Also the CALL ORIGIN on the ACDCTP form must be set to "AIS".

3.6 CALL TYPE

Description: Enter the Service ID number for Listing Services that is to be used to route the incoming call to the proper serving team. (The Service ID entries are defined in the SVC ID field of the SERVDATA form.)

Software Release: 5E5 and later
Valid Entries: 1 - 1023

Data Rules:

For every CALL TYPE entered on this form, a corresponding OSPSCT form with a matching OSPS CALL TYPE field value must be found; unless for 5E8 and later, the CALL TYPE has a value greater than 128. In addition, the OPER TYPE on this corresponding OSPSCT form must be set to "TA".

For each list element on an ACDPOL form where CALL TYPE is entered, SVC ID must be entered on the associated OSPSCT form when CALL ORIGIN on the associated ACDCTP form is "AIS" or "LSTA". OSPS CALL TYPE on the associated OSPSCT form matches CALL TYPE on the ACDPOL form and PRE CALL ID on the associated ACDCTP form matches PRE CALL ID on the ACDPOL form. Conversely, if CALL ORIGIN on the associated ACDCTP form is not "AIS" or "LSTA", SVC ID must not be entered on the associated OSPSCT form.

For 5E7 and later, CALL TYPE in the NEXT CALL TYPE POOL LIST on the ACDPOL form must be less than 129, if "SPCL700" is NOT entered in the CALL ORIGIN field on the ACDCTP form. The ACDCTP form is found by matching the PRE CALL ID field on the ACDCTP form with the PRE CALL ID field on the ACDPOL form.

3.7 DISPLAY

Description: This is the DA to VDT (Video Display Terminal) and Non-ISP calls VDT display index. An entry in this field is required if a VDT display is to be associated with this incoming call. No entry means that no VDT displays are required.

Software Release: 5E5 and later
Valid Entries: 1 - 276

Data Rules:

This field requires an entry if the CALL ORIGIN field on the corresponding ACDCTP form equals "NIT" or "DA2VDT". The call is being generated from the call origin; PRE CALL ID on the ACDPOL form equals a PRE CALL ID on the ACDCTP form. In addition, if this field contains an entry, then a corresponding OBSTS

form with a matching BST DISPLAY INDEX must be found.

3.8 APOS CALL TYPE

Description: Enter the call type to be served by the Automated Position.

Software Release: 5E7 and later

Valid Entries: 1 - 128

Data Rules:

The APOS CALL TYPE field is used by the Automated Position feature, which is a Secured Feature and must be purchased before it can be assigned. The ACT field for SFID 65 on the SFSYS form must be set to "Y" , before APOS CALL TYPE can be entered.

If the APOS CALL TYPE is entered on this form, then there must be an OSPSCT form (5404 Record) where the OSPS CALL TYPE on an OSPSCT form must match the APOS CALL TYPE on this form. In addition, the OPER TA must be "TA" and the SVC ID must not be entered on the OSPSCT form.

For 5E7 and later, if APOS CALL TYPE is entered on the ACDPOL form, then CALL ORIGIN cannot be "SPCL700", "LSTA", or "AIS" on the corresponding ACDCTP form. Forms correspond if the PRE CALL ID field on the ACDPOL form matches the PRE CALL ID field on the ACDCTP form.

3.9 THIRD LEVEL

Description: This field indicates if a third level of call screening information is required to determine the call type associated with this incoming call.

Software Release: 5E5 and later

Default: NONE

Valid Entries:

Valid THIRD LEVEL Entries	
Entry	Definition
DEST	Expanded call determination based on an incoming CDI
NONE	Expanded call determination is not required
TGRP	Expanded call determination based on an incoming TGN

Data Rules:

If TGRP/DEST is equal to "TGRP", then THIRD LEVEL can only equal "NONE" or "DEST". If TGRP/DEST is equal to "DEST", then THIRD LEVEL can only equal "NONE" or "TGRP".

3.10 ACD EXPRESSION

Description: This field defines the call property expression to be used for flexible ACD call type determination.

Software Release: 5E13 and later

Required Field.

Default: Q

Valid Entries:

Valid ACD EXPRESSION Entries	
Entry	Definition
A	ACCT Owner
C	Carr ID

D	Dest Index
G	Lang Code
I	ANI II
L	LRN
N	NPA-NXX
O	OLS Code
Q	Quit
R	DIOR Carrier
S	Access Number
T	Trk Grp
or &	Special Cases (e.g., T D O&I)

CALL ORIGIN	PREFIX	COIN	CARRIER	SOFTWARE RELEASE
AIS	NULLP	N	UNKWN	5E6(2) and later
AP	NULLP			5E9(2) and later
DA2VDT	NONE	N	DC	5E5 and later
INW	NULLP	N	DC	5E5 and later
LSTA	1	Y	IC	5E6(2) and later
LSTA	1	Y	LEC	5E6(2) and later
LSTA	1	Y	UNKWN	5E6(2) and later
LSTA	1	N	IC	5E6(2) and later
LSTA	1	N	LEC	5E6(2) and later
LSTA	1	N	UNKWN	5E6(2) and later
ISP	0M	Y	IC	5E5 and later
ISP	0M	Y	LEC	5E5 and later
ISP	0M	Y	UNKWN	5E5 and later
ISP	0M	N	IC	5E5 and later
ISP	0M	N	LEC	5E5 and later
ISP	0M	N	UNKWN	5E5 and later
ISP	0	Y	IC	5E5 and later
ISP	0	Y	LEC	5E5 and later
ISP	0	Y	UNKWN	5E5 and later
ISP	0	N	IC	5E5 and later
ISP	0	N	LEC	5E5 and later
ISP	0	N	UNKWN	5E5 and later
ISP	1	Y	IC	5E5 and later
ISP	1	Y	LEC	5E5 and later
ISP	1	Y	UNKWN	5E5 and later
ISP	1	N	IC	5E5 and later
ISP	1	N	LEC	5E5 and later
ISP	1	N	UNKWN	5E5 and later
ISP	NULLP	Y	LEC	5E5 and later
ISP	NULLP	Y	IC	5E5 and later
ISP	NULLP	N	LEC	5E5 and later
ISP	NULLP	N	IC	5E5 and later
NIT	NONE	N	DC	5E5 and later
OPI	O	N	DC	5E5 and later
OPI	OM	N	DC	5E5 and later
OPI	NULLP	N	DC	5E5 and later
RES	NULLP	N	DC	5E5 and later
SYS	1	N	IC	5E5 and later
SYS	1	N	LEC	5E5 and later
SYS	1	N	UNKWN	
SYS	NULLP	N	DC	5E5 and later
XFER	NULLP	N	DC	5E5 and later

These are valid combinations of key field entries. OSPS ID is a key field that is intentionally omitted.

Figure 1 ENTRY COMBINATION VALUES FOR CALL ORIGIN VALUES 5E5 AND LATER SOFTWARE RELEASES

acdctp
(5412-A/D)

5ESS Switch
OFFICE DATA ADMINISTRATION

OSPS ACD CALL TYPE

*1. CALL ORIGIN AIS
 *2. PREFIX NULLP
 *3. COIN N
 *4. CARRIER UNKWN
 *5. OSPS ID 0000
 #6. CALL TYPE 123
 7. PRE CALL ID 012
 8. DISPLAY INDEX 036
 9. APOS CALL TYPE ____
 10. SECOND LEVEL DEST

Figure 2 SAMPLE ACDCTP FORM 5E7 - 5E12 SOFTWARE RELEASES

acdctp 5ESS Switch —
 (5412-A/D) OFFICE DATA ADMINISTRATION
 OSPS ACD CALL TYPE

*1. CALL ORIGIN AIS
 *2. PREFIX NULLP
 *3. COIN N
 *4. CARRIER UNKWN
 *5. OSPS ID 0000
 #6. CALL TYPE 123
 7. PRE CALL ID 012
 8. DISPLAY INDEX 036
 9. APOS CALL TYPE ____
 10. SECOND LEVEL DEST

Figure 3 SAMPLE ACDCTP FORM 5E13 AND LATER SOFTWARE RELEASES

acdctp 5ESS Switch —
 (5412-A/D) OFFICE DATA ADMINISTRATION
 OSPS ACD CALL TYPE

*1. CALL ORIGIN _____
 *2. PREFIX _____
 *3. COIN —
 *4. CARRIER _____
 *5. OSPS ID 0000
 #6. CALL TYPE _____
 7. PRE CALL ID _____
 8. DISPLAY INDEX _____
 9. APOS CALL TYPE _____
 10. SECOND LEVEL NONE

11. ACD EXPRESSION Q

Figure 4 SAMPLE ACDPOL FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4N: 5413 RECORD TRUE TRUNK GROUP NPA FORM - PRONXX

1. GENERAL

The 5413 Record is available with 5E4(2) and later Software Releases. When a TGN, assigned on a OPRTK form (5417 Record), serves more than one NPA, then the PROTECTED NXXS field on the OPRTK form must be set to "Y". Those NXXs that are not associated with the NPA in the ORIG NPA field of the OPRTK form are called "protected" NXXs and their actual (or "true") NPA must be identified on the PRONXX form.

If protected NXXs are served by the TGN, the PRONXX form is checked for the true NPA. If there are no protected NXXs, then the NPA is found on the OPRTK form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.13.

2. FORM AND RECORD ENTRIES - 5413 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * TGN NPA

Description: Enter a NPA with an associated protected NXX.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

Data Rules:

This value must be entered in the ORIG NPA field of an OPRTK form where the PROTECTED NXXs field has a value of "Y".

2.3 * NXX

Description: Enter the protected NXX. The valid entries are office codes of the format NXX, 0XX or 1XX.

Valid Entries: 3 digits

2.4 # TRUE NPA

Description: Enter the True NPA associated with the protected NXX.

Valid Entries:

For 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

Data Rules:

The value entered in this field must not be the same as the value entered in the TGN NPA field.


```

prnxxx          5ESS Switch
(5413)          OFFICE DATA ADMINISTRATION
                OSPS TRUE TRUNK GROUP NPA

```

```
*1.  TGN  NPA   219
*2.  NXX              510
#3.  TRUE  NPA  312
```

Figure 1 SAMPLE PRONXX FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 40: 5414 RECORD NPA-NXX SM ASSIGNMENT AND LATA EXCEPTIONS FORM - NPAMAP

1. GENERAL

The 5414 Record is available with 5E4(2) and later Software Releases.

This record is used to assign an SM (Switching Module), trunk group, exception area index and a LATA (Local Access and Transport Area) to an NPA-NXX combination. For 5E6 and later, NPAs for DIOR (Direct International Originations) can be assigned.

Because the quantity of OLS (Originating Line Screening) data is too great to be stored on each SM, the data is divided among all SMs used for OSPS (Operator Services Position System) traffic by assigning all OLS data for an NPA-NXX to an SM. This assignment is specified on this record. No OLS data can be assigned to a remote SM in this record.

On an operator-initiated call with a valid back number, the NPAMAP form is consulted to see what trunk a call from that back number would arrive on. The DAS and screen index associated with that trunk, found on the TKGRP form (5202 Record), is used for digit analysis and routing. If the NPAMAP form shows that the entered NPA-NXX is for termination only, or if it is not found, the call continues as if not screened, and a warning message is printed.

Using the trunk group that the OSPS call arrived on, the OPRTK form (5417 Record) is checked to determine the default carrier, and if there are any originating exception areas served by that trunk. If there are, then the back number's NPA-NXX is used as the key to this record to see if the call originated in an exception area.

If a forward number is found on the 5414 Record, then the ORIG LATA number on this record is compared to the TERM LATA found in the LDIT form (5300-3 Record). If these LATAs do not match, the inconsistent data is reported to the craft.

Each NPAMAP form submitted must have a TGN assigned that is defined on a TKGRP form with "FIOPR" entered in the TRKCLS field.

1.1 Recent Change View

The corresponding Recent Change view for NPAMAP is 26.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * NPA

Description: Enter the NPA code.

Required Field.

Valid Entries: 100 - 999

2.3 * NXX

Description: Enter the office code that is associated with this NPA. When DIOR NPA is entered, NXX is the

originating Country Code.

• **WARNING:** NXXs under 200 do not conform to Network Standards and may cause routing errors.
Valid Entries: 000 - 999

2.4 DIOR NPA

Description: Is the selected NPA for a DIOR (Direct International Origination) trunk group?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When NPA is greater than or equal to 200, DIOR NPA must be "N". When NPA is less than 200, DIOR NPA must be "Y".

2.5 # TERM ONLY

Description: Is this NPA-NXX used for terminating only, and is it in the area subtended by the switch? Enter "N" (No) if this NPA-NXX is used for originating and terminating and is in the area subtended by the switch.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the TERM ONLY field, then the TGN, SM, and ORIG LATA fields must be left blank, and the EAI field must be entered. If TERM ONLY is "N", then an entry is required in the SM field.

2.6 SM

Description: Enter the number of the Switching Module that contains the screening data for this NPA-NXX (from the LINESCRN form (5416 Record)).

Valid Entries: 1 - 192

Data Rules:

An entry is made if "N" is entered in the TERM ONLY field; no entry is made if "Y" is entered in the TERM ONLY field.

This entry must not be an RSM (Remote Switching Module). Each entry in this field must be defined on an EQIM form (5700 Record) with EQSTATUS equal to "O" and SM USAGE not equal to "RSM".

2.7 TGN

Description: Enter the Trunk Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

An entry is made if the 5417 Record is to be used for operator-initiated delay calls. No entry is made if operator-initiated delay calls are not allowed, or if "Y" is entered in the TERM ONLY field.

TGN must not be entered when NPA is less than 200. If TGN is not entered, both LATA and EAI must be entered when NPA is greater than 200.

2.8 ORIG LATA

Description: Enter the number of the originating LATA.

Valid Entries: 1 - 31

Data Rules:

No entry is made if intra/interLATA can be determined from the CI TYPE field of a LDIT form. An entry of 2 to 15 is made if the ORIG LATA is compared with the TERM LATA entry on the LDIT form (to determine intra- or interLATA).

LATA must not be entered when NPA is less than 200. LATA is required when TGN is not entered and NPA is greater than 200.

2.9 EAI

Description: Enter the Exception Area Index.

Valid Entries: 1 - 250

Data Rules:

No entry is made if interLATA calls are not treated as intraLATA. Entries from 1 to 250 are made if "Y" is entered in the TERM ONLY field. Each entry in this field must be defined as either an ORIG EAI or TERM EAI on an EXMAP form (5440 Record).

EAI must not be entered when NPA is less than 200. EAI is required when TGN is not entered and NPA is greater than 200.

2.10 PHRASE ID

Description: Enter the phrase used by the ICO (Independent Company Announcement Branding) feature in providing branding for 0+ intraLATA calls. The phrase should contain the name of the carrier eligible for branding. For more information on ICO, see Division 2, Section 4A95.

Software Release: 5E8 and later.

Valid Entries:

For 5E8 - 5E9(1): 0 - 16,383, 16,385 - 16,389,
or 16,500 - 32,767

For 5E9(2) and later: 1 - 16,383 or 16,600 - 65,530

Data Rules:

If TERM ONLY is "Y", PHRASE ID must not be entered.

PHRASE ID must not be entered if NPA is less than 200.

When PHRASE ID is entered, a corresponding PHRASE form must be entered with a matching PHRASE ID and an APPLICATION of "OSPSTA".

```
npamap                      5ESS Switch          _
(5414)                      OFFICE DATA ADMINISTRATION
                             OSPS/ISP NPA-NXX SM ASSIGNMENT & LATA EXCEPTIONS

*1. NPA                      ____
*2. NXX                      ____
 3. DIOR NPA N
 4. TERM ONLY N
 5. SM                      ____
 6. TGN                     ____
 7. LATA                     ____
 8. EAI                      ____
 9. PHRASE ID _____
```

Figure 1 SAMPLE NPAMAP FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4P: 5415 RECORD SCREEN CODE TABLE FORM - SCRNCODE

1. GENERAL

The 5415 Record is available with 5E4(2)

This record defines billing restrictions on the back number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * SCRNCODE

Description: Enter the screening code to be used on the LINESCRN form (5416 Record).

An entry of 0 (zero) denotes no screening. Screen code 127 is reserved for testing.

Required Field.

Valid Entries: 0 - 999

Data Rules:

If a SCRNCODE of 0 (zero) is entered, then the following fields must be set to "Y":

- AUTO COLLECT
- BACK CARD NBR
- BACK THIRD NBR
- COLLECT
- DACC ALLOW
- DACC ALT BILL
- DACC PAID
- FORWARD CARD NBR
- FORWARD THIRD NBR
- PAID or DDD

Additionally, TEXT 1 must be "NOT SCREENED," and TEXT 2 and TEXT 3 must be blank.

2.3 PAID OR DDD

Description: Is paid or DDD (Direct Distance Dialing) billing allowed?

Required Field.

Default: Y

Valid Entries: Y, N

2.4 COLLECT

Description: Is collect billing allowed? All collect calls are allowed for a SCREEN CODE of zero.

Required Field.

Default: Y

Valid Entries: Y, N

2.5 AUTO COLLECT

Description: Is automatic collect billing allowed?

Required Field.

Default: Y

Valid Entries: Y, N

2.6 BACK CARD NBR

Description: Is back card number billing allowed?

Required Field.

Default: Y

Valid Entries: Y, N

2.7 BACK THIRD NBR

Description: Is back third number billing allowed?

Required Field.

Default: Y

Valid Entries: Y, N

2.8 FORWARD CARD NBR

Description: Is forward card billing allowed?

Software Release: 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.9 FORWARD THIRD NBR

Description: Is forward third number billing allowed?

Software Release: 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.10 TEXT

Description: Enter the message displayed at the VDT (Video Display Terminal). Up to 3 lines of text with 49

alphanumeric characters, special characters or spaces are allowed per line. The only restriction is that double quotes may not be used.

Comments, explanations of billing restrictions, and special operator treatments associated with the call are some of the more common text entries.

Valid Entries: 49 characters per line

2.11 DACC PAID

Description: Is paid billing allowed for DACC (Directory Assistance Call Completion) calls? This field and the following two fields are associated with the secured feature OLS DACC. SFID 97 on the SFSYS form must be set to "Y" to enable this feature. (See Division 2, Section 4A97 for more information on this feature.)

Software Release: 5E8 and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.12 DACC ALT BILL

Description: Is alternate billing allowed for DACC calls?

Software Release: 5E8 and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.13 DACC ALLOW

Description: Is DA Call Completion allowed?

Software Release: 5E8 and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.14 ANNC HEADER ID

Description: The ANNC HEADER ID field, in conjunction with the PHRASE ID field, is used to provide a branding announcement for 0+ calls for the CMA (Customized Market Announcement) feature. SFID 96 on the SFSYS form must be set to "Y" to enable this feature. For more information on the CMA feature, see Division 2, Section 4A96.

This branding announcement is given to the customer to provide information on automated calls.

Software Release: 5E8 and later.

Valid Entries:

For 5E8 -5E9(1): 1 - 255

For 5E9(2) and later: 1 - 131,071

Data Rules:

When ANNC HEADER ID is entered on the SCRNCODE form, a matching HEADER ID must be entered on the ANNHD form with an APPLICATION of "OSPSTA".

2.15 PHRASE ID

Description: The announcement PHRASE ID is used to provide the branding phrase for 0+ calls for the CMA (Customized Marketing Announcement) feature. The PHRASE ID is part of the branding announcement entered in the ANNC HEADER ID field. The PHRASE ID identifies the specific provider given in the branding announcement to the customer.

Required Field.

Software Release: 5E8 and later.

Valid Entries:

For 5E8 - 5E9(1): 0 - 16,383, 16,385 - 16,389,
or 16,500 - 32,767

For 5E9(2) and later: 1 - 16,383 or 16,600 - 65,530

When PHRASE ID is entered on the SCRNCODE form, a matching PHRASE ID must be entered on the PHRASE form with an APPLICATION of "OSPSTA".

2.16 ICS TREAT

Description: Is an originating location (i.e. back number) eligible for ICS (Inmate Calling Services) treatment? For more information on this feature see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ICS INTL is "Y", then ICS TREAT must be "Y".

2.17 ICS INTL

Description: Are calls to international numbers from the associated originating location (i.e. back number) eligible for ICS treatment? The ICS TREAT and ICS INTL fields were added to support the ICS (Inmate Calling Services) feature. For more information on this feature, see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ICS INTL is "Y", ICS TREAT must be "Y".

2.18 ACD TRK NUMBER

Description: The ACD TRK NUMBER field is used to specify a "pseudo" trunk group number that can be used

during ACD call type determination to route calls to an appropriate operator team. If specified, this number overrides the actual incoming trunk group number for purposes of ACD call type determination only. This field supports the SS7 Signaling for Incoming OSPS Calls from a 4ESS Switch. For more information on this feature see Division 2, Section 3M.

Software Release: 5E10 and later.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

scrncode		5ESS Switch	—
(5415)		OFFICE DATA ADMINISTRATION	
		OSPS SCREEN CODE TABLE	

*1. SCRN CODE	_____	12. DACC PAID	Y
2. PAID OR DDD	Y	13. DACC ALT BILL	Y
3. COLLECT	Y	14. DACC ALLOW	Y
4. AUTO COLLECT	Y	15. ANNC HEADER ID	_____
5. BACK CARD NBR	Y	16. PHRASE ID	_____
6. BACK THIRD NBR	Y		
7. FORWARD CARD NBR	Y		
8. FORWARD THIRD NBR	Y		
9. TEXT 1	_____		
10. TEXT 2	_____		
11. TEXT 3	_____		

Figure 1 SAMPLE SCRNCODE FORM 5E9(1) SOFTWARE RELEASES

scrncode		5ESS Switch	—
(5415)		OFFICE DATA ADMINISTRATION	
		OSPS BACK SCREEN CODE TABLE	

*1. SCRN CODE	_____	12. DACC PAID	Y
2. PAID OR DDD	Y	13. DACC ALT BILL	Y
3. COLLECT	Y	14. DACC ALLOW	Y
4. AUTO COLLECT	Y	15. ANNC HEADER ID	_____
5. BACK CARD NBR	Y	16. PHRASE ID	_____
6. BACK THIRD NBR	Y	17. ICS TREAT	N
7. FORWARD CARD NBR	Y	18. ICS INTL	N
8. FORWARD THIRD NBR	Y	19. ACD TRK NUMBER	_____
9. TEXT 1	_____		
10. TEXT 2	_____		
11. TEXT 3	_____		

Figure 2 SAMPLE SCRNCODE FORM 5E9(2) SOFTWARE RELEASE

scrncode		5ESS Switch	
(5415)		OFFICE DATA ADMINISTRATION	
		OSPS BACK SCREEN CODE TABLE	
*1. SCRNCODE	_____	12. DACC PAID	Y
2. PAID OR DDD	Y	13. DACC ALT BILL	Y
3. COLLECT	Y	14. DACC ALLOW	Y
4. AUTO COLLECT	Y	15. ANNC HEADER ID	_____
5. BACK CARD NBR	Y	16. PHRASE ID	_____
6. BACK THIRD NBR	Y	17. ICS TREAT	N
7. FORWARD CARD NBR	Y	18. ICS INTL	N
8. FORWARD THIRD NBR	Y		
9. TEXT 1	_____		
10. TEXT 2	_____		
11. TEXT 3	_____		

Figure 3 SAMPLE SCRNCODE FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4Q: 5416 RECORD OSPS BACK NUMBER SCREENING FORM - LINESCRN

1. GENERAL

The 5416 Record is available with 5E4(2) and later Software Releases.

This record is used to assign a screen code and routing flag to a line or range of lines. It supplies the SM (Switching Module) that contains a specific Numbering Plan Area/NXX's line screening data. The SM is assigned in the SM field on the NPAMAP form (5414 Record). With the 5E6 Software Release, NPAs for DIOR (Direct International Originations) can be signed.

Once the SM has been determined, the OSPS (Operator Services Position System) sends a query to that SM to retrieve any data that may be in the LINESCRN form (5416 Record) for the back number. Data found may indicate billing restrictions, whether to always route the call to an operator position, whether the call receives ACCS (Automated Calling Card Service) treatment, the originating station type, if the back number is a coin phone, if there is a true billing number to replace the back number or (for 5E5 and later) if the back number is restricted from Subaccount Billing.

Only one LINESCRN form should be submitted per a DN (Directory Number). Additionally, ranges of numbers to be screened must not overlap.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * NPA

Description: Enter a valid 3-digit NPA (Numbering Plan Area).

Required Field.

Valid Entries:

For 5E6 - 5E8: 100 - 919, middle digit 0 - 1

For 5E9(1) and later: 100 - 999

Data Rules:

Entries in this field must be defined in the NPA field on an NPAMAP form (5414 Record).

2.3 * NXX

Description: Enter a valid office code.

Required Field.

Valid Entries: 200 - 999

Data Rules:

Entries in this field must be defined in the NXX field on a NPAMAP form.

For 5E6 and later, when DIOR NPA is entered on this form, NXX is the originating Country Code.

2.4 * BEG LINE

Description: Enter the station portion XXXX of the back number to be screened (the local directory number minus the office code).

The first line in a range or an individual line (back number) may be entered in the BEG LINE field. If a range is entered, the last number should be entered in the END LINE field below.

Required Field.

Valid Entries: 0000 - 9999

Data Rules:

LINESCRN forms must not include the same number in more than one range.

2.5 (*) END LINE

Description: Enter the XXXX of the last line (if a range of back numbers are to be screened).

Valid Entries: 0001 - 9999

Data Rules:

Entries in the END LINE field must be greater than entries in the BEG LINE field.

2.6 # SCR N CODE

Description: Enter the screen code number.

An entry of 0 (zero) denotes that line screening will not take place. Screen code 127 is reserved for testing.

Required Field.

Valid Entries: 0 - 999

Data Rules:

Entries in this field must be defined on a SCRNCODE form (5415 Record) to check for billing restrictions. The SCR N CODE must be the same on all forms using the same TRUE BILL TN.

For 5E9(1) and later, if SCR N CODE is 0, then SERVICE CODE must not be entered.

2.7 DIOR NPA

Description: Is the selected NPA for a DIOR (Direct International Origination) trunk group?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ORIG NPA is greater than or equal to 200, DIOR NPA must be "N". When ORIG NPA is less than 200, DIOR NPA must be "Y".

2.8 # TO OPER POS

Description: Are all calls from this back number to be routed to an operator position? This affects only 0+ calls. If this field is set to "Y", calls from this back number will not receive automated calling card service or automated coin service.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

TO OPER POS must be "Y" when NPA is less than 200.

2.9 # COIN LINE

Description: Does this line or range belong to coin lines only and may not be combined with other traffic (such as non-coin, hotel/motel, etc.)?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

COIN LINE must be "N" when NPA is less than 200.

2.10 # ORIG STATION

Description: Enter the type of originating station to be used for AMA (Automatic Message Accounting) records.

Required Field.

Default: UNKNOWN

Valid Entries:

Valid ORIG STATION Entries	
Entry	Definition
UNKNOWN	Not "NCNPUB" or "NACQSHOTL".
NCNPUB	Non-coin public.
NACQSHOTL	Non-ACQS hotel.

Data Rules:

ORIG STATION must be "UNKNOWN" when NPA is less than 200.

2.11 TRUE BILL TN

Description: Enter the true billing number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: Enter NXXXXXXXXX where N=2 - 9 and X=0 - 9

Data Rules:

TRUE BILL TN must be blank when NPA is less than 200.

For 5E12 and later, when END LINE is entered, TRUE BILL TN cannot be in the range of NPA + NXX + BEG LINE through NPA + NXX + END LINE.

2.12 SUBACCT BILL

Description: Is Subaccount Billing allowed for this line or range of lines?

Required Field for 5E7 and later.

Default: N

Valid Entries: Y, N

Data Rules:

SUBACCT BILL must be "N" when NPA is less than 200.

2.13 SERVICE CODE

Description: Enter the Service code for Feature Group D Incoming Signaling for Special Applications. The service code may be used to identify specific services or billing arrangements based on the back number. This field supports the Feature Group D Incoming Signaling for Special Applications, Release 2 feature. For more information on this feature, see Division 2, Section 4A373.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 9999

Data Rules:

This field cannot be entered if SCR N CODE is 0.

If this field is entered, END LINE must not be entered.

linescrn	5ESS Switch	—
(5416)	OFFICE DATA ADMINISTRATION	
	OSPS BACK NUMBER SCREENING	
*1. NPA	_____	12. SERVICE CODE _____
*2. NXX	_____	
*3. BEG LINE	_____	
(*) 4. END LINE	_____	
#5. SCR N CODE	_____	
6. DIOR NPA	N	
7. TO OPER POS	N	
8. COIN LINE	N	
#9. ORIG STATION	UNKNOWN	

10. TRUE BILL TN	_____
11. SUBACCT BILL	N

Figure 1 SAMPLE LINESCRN FORM 5E11 AND EARLIER SOFTWARE RELEASES

```

linescrn
                                5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5416)                          OSPS BACK NUMBER SCREENING

*1. NPA                        _____
*2. NXX                        _____
*3. BEG LINE                   _____
(*) 4. END LINE                _____
#5. SCRN CODE                  _____
   6. DIOR NPA                 N
   7. TO OPER POS              N
   8. COIN LINE                N
   9. ORIG STATION             UNKNOWN
  10. TRUE BILL TN             _____
  11. SUBACCT BILL            N
  12. SERVICE CODE            _____

```

Figure 2 SAMPLE LINESCRN FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 4R: 5417 RECORD ACCESS TANDEM INCOMING TRUNK GROUPS FORM - OPRTK

1. GENERAL

The 5417 Record is available with 5E4(2) and later Software Releases.

This form is used to define the common information and type of traffic over each trunk group that can access an OSPS (Operator Services Position System) operator. The default interLATA and international carrier for a forward number are both specified on this form. An OPRTK form must be completed for each incoming trunk group in the office that can access the OSPS operator.

1.1 Carrier ID

The OPRTK form also contains the carrier ID used for routing intraLATA, interLATA, and international OS (Operating System) calls. The carrier is determined by ISP (Intermediate Switch Point) and that carrier ID is then used as an index into the DIOPR form (5418 Record).

1.2 Number/Character Entries

In some of the following tables, there are single digit values listed in parentheses after listed entries. These entries may be substituted for the corresponding entry to save data entry keystrokes.

1.3 Recent Change View

The corresponding Recent Change View for this form is 26.26.

2. FORM ENTRIES - 5417-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TGN

Description: Enter the OSPS incoming TGN (Trunk Group Number).

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Each TGN entered on this form must match a TGN entered on the TKGRP form.

For 5E8 and later, OSPS operator trunks defined on OPRTK forms must not be located in BASIC SM (Switching Modules). CONFIGURATION field on the EQIM form (5700 Record) defines the configuration of the SM. The corresponding EQIM form for this TGN is found by the TGN in this field matches the TGN on the TRUNK form (5204 Record). The first three digits (SM) of the TEN or DEN on the corresponding TRUNK form matches the SM entry on the EQIM form.

2.3 # TRKCLS

Description: Enter the trunk classification. See the TKGRP form, Division 3, Section 2A for more detailed definition of trunk classes.

Software Release: 5E6(2) and later

Required Field.

Valid Entries:

Typical TRKCLS Entries	
Entry	Definition
CAMAANI	Incoming CAMA ANI trunks
CAMAONI	Incoming CAMA ONI trunks
DIOR	Direct International Originations
FIOPR	Intermediate Switch Point for incoming operator trunks.
INAISTRK	Incoming Automatic Intercept system trunk
LATA	Intertoll trunks from a LATA
LTOLLCON	Toll connecting - local office end
PF	Software Release: 5E7 and later Private Facility (PFA Feature)
PRINTOLL	Primary intertoll
SCINTOLL	Secondary intertoll
TTOLLCON	Toll connecting - toll office end

Data Rules:

For 5E7 and later, TRKCLS entries assigned on the OPRTK form must be defined in the TRKCLS field on the TKGRP form.

CAMAANI:

If "CAMAANI" is entered, FROM LOCAL OFC must be entered.

DIOR:

If "DIOR" is entered,

- AATOS SDN NRA must be "N";
- For 5E9(1) and later, ALLOW 7 DIGITS must not be entered.
- ANI must be "Y";
- ACQS SCRIN must be "NONE";
- AUTO COIN TRAF must be "N";
- COIN must be "N";
- COIN SIG TYPE must be "N";
- COIN TYPE must be blank;
- EXCEPTION AREAS must be "N";
- FROM LOCAL OFC must be blank.
- INTRA CARR ID cannot be "LEC";
- INTER CARR ID cannot be "LEC";
- INTL CARR ID cannot be "LEC";

- LATA TYPE must be "INTER";
- OL SCRIN must be "DED";
- ORIG NPA must be 100-199;
- OS EA SIG must be "N";
- PROTECTED NXXS must be "N";
- START PULSE must be "TURNBACK";
- TRK TYPE must be "DOP";

If TRKCLS is not "DIOR" or "FIOPR", SCRIN INDEX must not be entered.

FIOPR:

If TRKCLS is "FIOPR":

- then FROM LOCAL OFC must be entered.
- and if COIN is "Y", then
 - SIG TYPE must be "MW", "IN" or "EX".
 - COIN TYPE must be "D", "C" or "CD".

INAISTRK:

If TRKCLS is "INAISTRK":

- Then the following fields:
 - ACQS SCRIN must be "NONE";
 - ANSWER SUPV must be "Y";
 - APOS TREATMENT must be "N";
 - AUTO COIN TRAF must be "N";
 - CALL COMPL must be "Y";
 - COIN must be "N";
 - COIN POST PAID must be "N";

FROM TA SYSTEM must be "N";

FROM LOCAL OFC must not be entered;

INTRA CARR ID must not be entered;

INTER CARR ID must not be entered;

INTER FOR CC must be "N";

INTL CARR ID must not be entered;

LATA TYPE must be "BOTH";

MECH must be "N";

OL SCRIN must be "NONE";

OS EA SIG must be "N";

TRK TYPE must be "INAIS";

- AIS DAS must be entered on the OSPSOPT form.

5E10 and later:

- and LSTG SVC TRAF is "Y", then PROTECTED NXXS must be "N".

TRKCLS must not be "INAISTRK", when TRK TYPE is "D1P".

LATA:

If TRKCLS is "LATA":

- PROTECTED NXXS must be "N" and FROM LOCAL OFC must be entered.

5E9(1) and later:

- if LSTG SVC TRAF is "Y", then ANSWER SUPV must NOT be entered.
- if LSTG SVC TRAF is "N", then ALLOW 7 DIGITS must be "N".

5E10 and later:

- and LSTG SVC TRAF is "Y", then
 - PROTECTED NXXS must be "N".
 - FROM LOCAL OFC must be entered.
- and LSTG SVC TRAF is "N", then FROM LOCAL OFC must not be entered.

PF:

If TRKCLS is "PF",

- BILLING DN must be entered on the corresponding TKGRP form;
- and LSTG SVC TRAF is "Y", then
 - ANSWER SUPV must not be entered;
 - FROM LOCAL OFC must be entered.
- and LSTG SVC TRAF is "N", then
 - AATOS SDN NRA must be "N".
 - ANI must be "Y";
 - ACQS SCRIN must be "NONE", "DED", or "ASRCH";
 - AUTO COIN TRAF must be "N";
 - COIN must be "N";
 - COIN POST PAID must be "N";
 - EXCEPTION AREAS must not be entered.
 - FROM LOCAL OFC must not be entered.
 - OL SCRIN must be "NONE", "DED", or "ASRCH";
 - SIG TYPE must be "NOCN";
 - TRK TYPE must be "COMB", "D0", "D0P", "D0M" or "D1P".

DIOR, INAISTRK, FIOPR:

If TRKCLS on the TKGRP form is not "INAISTRK", "FIOPR", or "DIOR",

- LSTG SVC TRAF must be "Y";
- TRK TYPE must be "D1P";
- ANSWER SUPV must be "N";

- SIG TYPE must be "NOCN" ;
- COIN TYPE must not be entered.

2.4 # ORIG NPA

Description: Enter the originating NPA associated with this trunk group.

Required Field.

Valid Entries: 100 - 999

Data Rules:

When ORIG NPA is less than 200, DIOR NPA must be "Y".

When the TKGRP form (5202 Record) has a TRKCLS of "DIOR", this field must be from 100 to 199. For 5E6 and later, if the corresponding TKGRP form does not have "DIOR" entered in the TRKCLS field, the ORIG NPA must be between 200 and 999.

2.5 DIOR NPA

Description: Is the selected NPA for a DIOR (Direct International Origination) trunk group?

Software Release: For 5E6 only.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ORIG NPA is greater than or equal to 200, DIOR NPA must be "N". When ORIG NPA is less than 200, DIOR NPA must be "Y".

2.6 # LATA TYPE

Description: Enter the type of LATA (Local Access and Transport Area) traffic that this trunk group is to carry.

Required Field.

Valid LATA TYPE Entries	
Entry	Definition
INTRA or INTR	IntraLATA traffic only.
INTER or INTE	InterLATA traffic only.
BOTH or B	Both IntraLATA and InterLATA traffic.

Data Rules:

If "INTER" or "BOTH" is entered in the LATA TYPE field, then there must be an entry in the INTER CARR ID field.

If "INTRA" is entered in the LATA TYPE field, then the INTER CARR ID field must be blank.

For 5E6 and later, when ORIG NPA is less than 200, LATA TYPE must be "INTER".

For 5E6 and later, this field must be "BOTH" when the associated TKGRP form has INPULSING set to "DP".

For 5E9(1) and later:

- If LATA TYPE is "INTRA" and INTRA CARR ID is not 288, ALLOW INTRA DA must be "Y".
- If LATA TYPE is "BOTH" and INTRA CARR ID is not 288, ALLOW INTRA DA must be "Y".
- If LATA TYPE is "INTER", ALLOW INTRA DA must be "N".

2.7 # TRK TYPE

Description: Enter the type of originally-dialed traffic carried on this trunk group.

Required Field.

Valid TRK TYPE Entries	
Entry	Definition
COMB or C	Combined (0-,0+,1+) traffic.
D0	Dedicated dial zero traffic.
D0P	0+. Dedicated dial zero plus traffic. (This type is not valid for DP trunks.)
D0M	0-. Dedicated dial zero minus traffic. (This type is not valid for DP trunks.)
D1P or D1	1+. Dedicated dial one plus traffic.
INAIS or I	Incoming Automatic Intercept System (AIS)
SUP or S	Supercombined. (Noncoin/coin 0-,0+,1+) traffic.

Data Rules:

When TRKCLS is not "FIOPR", "DIOR", or "INAISTRK", the trunk group is used for Listing Services and TRK TYPE must be "D1P". The TKGRP form is found by matching TGN on the OPRTK form with TGN on the TKGRP form.

For 5E10 and later, "COMB", "DO", "DOM", "DOP" or "D1P" must be entered if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

DOP - For 5E6 and later, when ORIG NPA is less than 200, TRK TYPE must be "DOP".

The values "D0P" and "D0M" may not be selected if the trunk group is a Dial Pulse trunk group (indicated by an entry of "DP") in the INPULSING field on the TKGRP form. This restriction is needed because of the following scenario: The central office, upon receiving a 0 origination on a dial pulse trunk, immediately seizes an outgoing trunk. However, the central office can't differentiate between 0+ and 0- because the outgoing trunk has been seized.

INAIS - For 5E6 and later, if TRK TYPE is "INAIS", then:

- LATA TYPE must be "BOTH"
- SCRIN INDEX must be 0
- SIG TYPE must be "NOCN" or must not be entered
- START PULSE must be "TURNBACK"
- if CALL COMPL is "Y", ANSWER SUPV must be "Y"
- the following must be "Y":

ANI

LSTG SVC TRAF

- the following must not be entered:

COIN TYPE

INTRA CARR ID

INTER CARR ID

INTL CARR ID

- the following must be "NONE":

ACQS SCRIN

OL SCRIN (or not entered)

- the following must be "N":

AUTO COIN TRAF

COIN

COIN POST PAID

EXCEPTION AREAS

INTER FOR CC

MECH

OS EA SIG

PROTECTED NXXS

SUP - If "SUP" is entered in this field, then "Y" must be entered in the COIN field.

If "SUP" is entered in this field, then either "START2P", "START3P", or "TURNBACK" must be entered in the START PULSE field. If "COMB" is entered in this field, then either "START", "STARTP", or "TURNBACK" must be entered in the START PULSE field.

2.8 # SCRIN INDEX

Description: Enter the screening index associated with this incoming trunk group.

The SCRIN INDEX field is used during an OSPS operator transfer to an external operator system. A normal zero minus seizure is the most common occurrence for the use of this screen index.

Required Field.

Valid Entries: 0 - 4095

Data Rules:

The value defined in this field must correspond to an entry on the RAR form (5301 Record) to tandem calls out to an external operator switch e.g., TSPS (Traffic Services Position System).

SCRN INDEX must not be entered unless TRKCLS is "DIOR", "FIOPR", or "LATA".

When SCRN INDEX is not entered, both RAX and CODE RESTRICT must be blank or 0.

2.9 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.10 CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.11 INTRA CARR ID

Description: Enter the intraLATA carrier identification number associated with the trunk group being defined.

Required Field.

Valid Entries: 0 - 9999 or LEC

Data Rules:

For every entry in this field, a corresponding entry in the CARRIER ID field of a DIOPR form (5418 Record) must exist, and B CARRIER must be "N" on the DIOPR form.

For 5E6 and later, when ORIG NPA is less than 200, INTRA CARR ID cannot be "LEC" (Local Exchange Carrier).

If 0 - 9999 is entered, then the CARRIER ID field on an ICF form must match INTRA CARR ID on this form. In addition for 5E8 and later, "D" must be entered in the FEAT GRP field on at least one ICF form where the CARRIER ID on the ICF form matches this field.

For 5E7 and later, INTRA CARR ID must be entered if LATA TYPE is "BOTH" or "INTRA" and TRK TYPE is not "INAIIS".

2.12 INTER CARR ID

Description: Enter the interLATA carrier identification number.

Valid Entries: 0 - 9999 or LEC

Data Rules:

For every carrier specified in this field, a corresponding entry in the CARRIER ID field of a DIOPR form (5418 Record) must exist, and B CARRIER field must be "N" on the DIOPR form.

For 5E6 and later, when ORIG NPA is less than 200, INTER CARR ID cannot be "LEC" (Local Exchange Carrier).

For 5E6 only, INTER CARR ID must be 0 - 999 if LATA TYPE is "INTRA", OFFICE TYPE is "N" on the OFCOPT form, and OSPS TA is "Y" on the OSPSOPT form.

If 0 - 9999 is entered, then a CARRIER ID on the ICF form must match INTER CARR ID on this form. In addition for 5E8 and later, "D" must be entered in the FEAT GRP field on at least one ICF form where the CARRIER ID on the ICF form matches this field.

For 5E7 and later, INTER CARR ID must be entered if LATA TYPE is "BOTH" or "INTRA" and TRK TYPE is not "INAIIS".

2.13 INTL CARR ID

Description: Enter the international carrier identification number.

Valid Entries: 0 - 9999 or LEC

Data Rules:

For every carrier specified in this field, a corresponding entry in the CARRIER ID field of a DIOPR form (5418 Record) must exist, and B CARRIER must be "N" on the DIOPR form.

For 5E6 and later, when ORIG NPA is less than 200, INTL CARR ID cannot be "LEC" (Local Exchange Carrier).

If 0 - 9999 is entered, then a CARRIER ID on an ICF form must match the INTL CARR ID on this form. In addition, for 5E8 and later, there must be at least one ICF form with "D" entered in the FEAT GRP field where the CARRIER ID field on the ICF form matches this field.

2.14 OL SCR N

Description: Enter the type of OLS (Originating Line Screening) to be done on the back number for internal OSPS calls. The actual OLS will begin on the LINESCRN form (5416 Record).

Default: NONE

Valid Entries:

Valid OL SCR N Entries	
Entry	Definition
NONE or N	No screened traffic carried by trunks in this trunk group.
DED or D	All traffic is screened.
AIFO or AI	Screened traffic identified by ANI Information digit(s) (0)7.
ASRCH or AS	Screened traffic identified by ANI search. Every back number will be searched on the LINESCRN form (5416 Record).

Data Rules:

If "AIFO" or "ASRCH" is entered in this field, then "Y" must be entered in the ANI field.

For 5E6 and later, when ORIG NPA is less than 200, OL SCR N must be "DED".

2.15 COIN

Description: Does this trunk group carry coin traffic?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "Y" when "SUP" is entered in the TRK TYPE field. If "SUP" is not entered in the TRK TYPE field, enter "Y" if the trunk group carries coin traffic other than postpay coin or if it is dedicated to postpay coin. If the trunk is dedicated to postpay coin, then COIN POST PAID must also be "Y".

Figure 1 shows the type of coin station determined by the combinations of entries in the COIN, TRK TYPE "SUP" (supercombined enumeration), and COIN POST PAID fields and the results of OLS.

If "Y" is entered in this field:

- then "NOCN" cannot be entered in the SIG TYPE field.
- then the entry in the COIN TYPE field must be "C", "D" or "CD".
- If ORIG NPA is less than 200, COIN must be "N".
- for 5E9(1) and later, and if TRKCLS is "FIOPR",
 - then SIG TYPE must be "MW", "IN", or "EX".
 - COIN TYPE must be "D", "C" or "CD".

If "N" is entered in this field, then "NOCN", "MW" or "EX" must be entered in the SIG TYPE field.

For 5E10 and later, "N" must be entered if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

2.16 COIN POST PAID

Description: Does this trunk group carry postpaid coin traffic? Postpaid coin traffic can be carried over coin and noncoin trunk groups.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Postpay coin lines must be identified as coin in the OLS (Originating Line Screening) tables if the trunk group is dedicated noncoin, i.e., COIN is "N". If the trunk group is dedicated to coin, i.e., COIN is "Y" and COIN POST PAID is "Y", then the trunk group is dedicated to postpay and the line numbers need not be in the OLS tables. See Figure 1 to determine if OLS is required. The figure shows that OLS is determined by the entries in the COIN field, COIN POST PAID fields and the "SUP", supercombined enumeration for the TRK TYPE.

if ORIG NPA is less than 200, COIN POST PAID must be "N".

For 5E10 and later, "N" must be entered if LSTG SVC TRAF is "N" and, TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

2.17 COIN TYPE

Description: Enter the coin dial tone response type.

Valid COIN TYPE Entries	
Entry	Definition
C	Coin first.
CD	Coin and dial tone first.
D	Dial tone first.

Data Rules:

If "Y" is entered in the COIN POST PAID field and "N" is entered in the COIN field, then COIN TYPE entries must be "D" or "CD".

If "N" is entered in both the COIN POST PAID and COIN fields, then an entry is not allowed in the COIN TYPE field.

For 5E6 and later, when ORIG NPA is less than 200, COIN TYPE must not be entered.

For 5E6 and later, if TRKCLS is not "FIOPR", "DIOR", or "INAISTRK" on the corresponding TKGRP form, then the trunk group is used for Listing Services and COIN TYPE must not be entered. The corresponding TKGRP is found by matching the TGN on the OPRTK form with the TGN on the TKGRP form.

2.18 SIG TYPE

Description: This field is used for two different purposes: 1) to describe the type of coin signaling over this trunk or 2) to describe the type of signaling (only MW or EX allowed) for the ringback (overtime/time and charges) feature when the local office primarily 1A or 1E is using that type of signaling on its end.

Software Release: 5E5 and later

Default: NOCN

Valid Entries:

Valid SIG TYPE Entries	
Entry	Definition
NOCN or N	No coin signaling.
MW or M	Multiwink coin signaling.
IN or I	Inband coin signaling.
EX or E	Expanded inband coin signaling.

Data Rules:

If ORIG NPA is less than 200, SIG TYPE must be "NOCN".

If TRKCLS on the corresponding TKGRP form is not "FIOPR", "DIOR", or "INAISTRK", then the trunk group is used for Listing Services and SIG TYPE must be "NOCN" or it must not be entered. The corresponding TKGRP form is found by matching the TGN on this form with the TGN on the TKGRP form.

For 5E10 and later, "NOCN" must be entered if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

2.19 AUTO COIN TRAF

Description: Will ACTS (Automated Coin Toll Service) be used on this trunk group? With ACTS, no operator services are required.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field equals "Y", then "Y" must be entered in either the COIN or the COIN POST PAID field.

If ORIG NPA is less than 200, AUTO COIN TRAF must be "N".

For 5E10 and later, "N" must be entered if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

2.20 ACQS SCR N

Description: Enter the type of ACQS (Automatic Charge Quotation Service) used. Any actual screening will be done on the ACQS form (5425 Record).

Default: NONE

Valid Entries:

Valid ACQS SCR N Entries	
Entry	Definition
NONE or N	ACQS traffic is not carried on this trunk group.
DED or D	Only ACQS traffic is carried on this trunk group.
AIFO or AI	ACQS traffic is identified by ANI (Automatic Number Identification) information digits (0)6.
ASRCH or AS	ACQS traffic is identified by ANI search. Every back number will be searched on the ACQS form.

If "AIFO", "ASRCH" or "DED" is entered in this field, "Y" must be entered in the ANI field.

For 5E6 and later, when ORIG NPA is less than 200, ACQS SCR N must be "NONE".

2.21 ANI

Description: Is the ANI (Automatic Number Identification) back number information expected on this trunk group?

The value entered here will override the information obtained from the RTIDX form (5303 Record).

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the OS EA SIG field, then "Y" must be entered in the ANI field.

If ORIG NPA is less than 200, ANI must be "Y".

For 5E10 and later:

"Y" must be entered

- if LSTG SVC TRAF is "Y" and TRKCLS is not "FIOPR".

- if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

2.22 OS EA SIG

Description: Is the equal access operator signaling used on this trunk group?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then ANI must be "Y".

When AATOS SDN NRA is "Y", OS EA SIG must be "Y".

"N" must be entered if EXCEPTION AREAS is "Y".

If this field is set to "Y", then the corresponding TKGRP form must not have its INPULSING field set to "DP". For "DP" signaling, OS EA SIG must be "N".

2.23 CARR SELEC ENF

Description: Will the carrier selection be enforced for this trunk group?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field, then "Y" must be entered in the OS EA SIG field. With "Y" entered in this field, the operator cannot change the carrier identification specified in the INTRA CARR ID, INTER CARR ID, or INTL CARR ID fields.

2.24 START PULSE

Description: Enter the start pulse to be used when a call type cannot be determined due to a transmission failure. Under this condition, a 0-prefix noncoin start will be used. However, start pulses differ depending upon the incoming trunk characteristics. Additionally, the Telephone Company Administrator can choose to and turn back the call (idle the trunk).

When "TURNBACK" is specified and an ANI transmission failure has occurred, the incoming call will be given a reorder tone and the trunk will be idled. When an ANI transmission failure occurs and no digits are received or only one digit is received and that digit is a zero and "TURNBACK" is specified, the call will be treated as a 0- call because of the possibility of the call being associated with an emergency.

Required Field.

Default: TURNBACK

Valid Entries:

Valid START PULSE Entries	
Entry	Definition
TURNBACK or 1	Turn back the call. This entry is not valid for 0- calls.

START or 2	Start pulse.
STARTP or 3	Start pulse prime.
START2P or 4	Start pulse double prime.
START3P or 5	Start pulse triple prime.

Data Rules:

For 5E6 and later, when ORIG NPA is less than 200, START PULSE must be "TURNBACK".

3. FORM ENTRIES - 5417-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

3.2 * TGN

Description: Enter the OSPS incoming TGN (Trunk Group Number).

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The incoming trunk group being assigned here must be defined on a TKGRP form (5202 Record) with a TRK DIR of "INC" and a TRKCLS of "FIOPR".

3.3 PROTECTED NXXs

Description: Does this trunk group have any protected NXXs? Enter "Y" if the PRONXX form (5413 Record) will be checked for a TRUE NPA entry.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E6 and later, when ORIG NPA is less than 200, PROTECTED NXXs must be "N".

3.4 EXCEPTION AREAS

Description: Do any exception areas exist in the LATA(s) that this trunk group serves?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the EXCEPTION AREAS field,

- "N" must be entered in the OS EA SIG field;

- "BOTH" must be entered in the LATA TYPE field;
- the EXCEPT DETRM field on the OSPSOPT form must be "Y".

If ORIG NPA is less than 200, EXCEPTION AREAS must be "N".

For 5E10 and later, "N" must be entered

- if LSTG SVC TRAF is "Y" and TRKCLS is not "FIOPR".
- if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".
- EXCEPTION AREAS must not be entered, if LSTG SVC TRAF is "N" and TRKCLS is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

3.5 MECH

Description: Is MECH (More Efficient Call Handling) feature used for incoming trunks to the operator?

Required Field.

Software Release: 5E6 and later

Default: Y

Valid Entries: Y, N

Data Rules:

If TRK TYPE on this form is "INAIS", then MECH must be set to "N".

3.6 FROM LOCAL OFC

Description: Does this trunk come directly from a local office?

Software Release: 5E6 and later

Default: Y

Valid Entries: Y, N

Data Rules:

For 5E10 and later, FROM LOCAL OFC must not be entered if TRKCLS is "PF" and LSTG SVC TRAF is "N".

3.7 ANSWER SUPV

Description: Does the incoming trunk group return answer supervision to the network?

Software Release: 5E6(2) and later

Valid Entries: Y, N

Data Rules:

If TRK TYPE is "INAIS" and CALL COMPL is "Y", then this field must be "Y".

If ORIG NPA entry is less than 200, then this field must be "Y".

ANSWER SUPV must be not be entered, if:

- TRKCLS is NOT "INAISTRK", "LATA" or "PF".
- TRKCLS is "PF" and LSTG SVC TRAF is "Y".

3.8 AATOS SDN NRA

Description: Does this trunk carry AATOS SDN/NRA (Alternate Access To Operator Services Software Defined Network/Network Remote Access) traffic only? If it is set to "N", AATOS SDN/NRA traffic is not carried on this TGN. If it is set to "Y", the trunk group carries only AATOS SDN/NRA.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ORIG NPA is less than 200, AATOS SDN NRA must be "N".

If AATOS SDN NRA is "Y",

- ACQS SCRNM must be "NONE" or "ASRCH";
- For 5E9(1) and later, ALLOW 7 DIGITS must not be entered.
- ANI must be "Y";
- AUTO COIN TRAF must be "N";
- COIN must be "N";
- COIN POST PAID must be "N";
- COIN TYPE must not be entered;
- EXCEPTION AREAS must be "N";
- LSTG SVC TRAF must be "N".
- OS EA SIG must be "Y";
- PROTECTED NXXS must be "N";
- SIG TYPE must be "NOCN";
- START PULSE must be "TURNBACK";
- TRK TYPE must be "D0P";

For 5E9(1) and later, if this field is "N", ALLOW 7 DIGITS must be entered for this TRKCLS and TRK TYPE.

For 5E10 and later, "N" must be entered if LSTG SVC TRAF is "N" and "TRKCLS" is "LTOLLCON", "PRINTOLL", "SCINTOLL", or "TTOLLCON".

3.9 APOS TREATMENT

Description: Is Automated Position Treatment provided on this trunk group?

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

The APOS TREATMENT field is used by the Automated Position feature, which is a Secured Feature, and must be purchased before it can be assigned. SFID 65 on the SFSYS form must be set to "S" or "Y" before APOS TREATMENT on this form can be set to "Y". (For more information on the Automated Position Feature, see Division 2, Section 4A on Secured Features.)

If TRKCLS is "INAISTRK", APOS TREATMENT must be "N".

3.10 WIRELESS

Description: Does this trunk carry wireless traffic only?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If WIRELESS is "Y", then TRKCLS cannot be "DIOR", "CAMAANI" or "CAMAONI".

3.11 WIRELESS SA

Description: Is the wireless special access activated for this trunk? This field is used by the special feature, FGD Incoming Signaling for Special Application, which provides operator services functions while interfacing over direct trunks from switching offices other than a Class 5 local office. For more information on this feature see Division 2, Section 4A83.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If WIRELESS SA is "Y", then:

AATOS SDN NRA must be "N"

ANI must be "Y"

AUTO COIN TRAF must be "N"

COIN must be "N"

COIN POST PAID must be "N"

SIG TYPE must be "NOCN"

TRKCLS must be "LATA"
TRK TYPE must be "COMB", "D0", "D0P",
"D0M" or "D1P"
WIRELESS must be "Y".

- **NOTE:** If "Y" is entered, TRKCLS on the corresponding TKGRP form must also be set to "LATA". The form corresponds to a TKGRP form if TGN on this form matches the TGN entry on the TKGRP form.

When SELECTIVE OLS is "Y", WIRELESS SA must be "Y".

3.12 SELECTIVE OLS

Description: Should selective originating line screening be activated for this trunk? This field is used by the special feature, FGD Incoming Signaling for Special Application, which provides operator services functions while interfacing over direct trunks from switching offices other than a Class 5 local office. For more information on this feature see Division 2, Section 4A83.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When SELECTIVE OLS is "Y", WIRELESS SA must be "Y".

3.13 ALLOW 7 DIGITS

Description: Is 7-digit dialing allowed on sequence calls? This field indicates whether 7-digit dialing is allowed on automated sequence calls for this trunk group. For automated sequence calls, OSPS checks the number of digits dialed. 7-digit dialing is not allowed for DIOR or AATOS SDN NRA features.

Software Release: 5E9(1) and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

This field must not be entered if TRUNK TYPE is D1P.

If TRKCLS is "LATA" and LSTG SVC TRAF is "N", then ALLOW 7 DIGITS must be "N".

If "N" is entered, OSPS INPA must be "Y" on the OSPSOPT form.

For 5E10 and later, "N" must be entered if LSTG SVC TRAF is "N" and TRKCLS is "LATA".

3.14 ALLOW INTRA DA

Description: Are intra-LATA DA calls allowed? This field specifies whether calls will be allowed or denied on a per trunk group basis. This field is being used by the DA/LOCDA feature.

Software Release: 5E9(1) and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

If LATA TYPE is "INTRA" or "BOTH" and INTRA CARR ID is NOT 288, ALLOW INTRA DA must be "Y".

If LATA TYPE is "INTER", ALLOW INTRA DA must be "N".

3.15 CARRIER CCS

Description: Is the Calling Card Screening by Carrier feature active on this trunk group? The CARRIER CCS field was added to support the Calling Card Screening by Carrier special feature. For more information on this feature see Division 2, Section 4A374.

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

3.16 ALLOW AILS

Description: Is AILS (Automated Inward Line Screening) treatment to be applied on this trunk? This field supports the OSPS Automated Inward Line Screening secured feature. (For more information on this feature, see Division 2, Section 4A370.)

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

3.17 WIRELINE

Description: Are wireline/non-TRS (Telephone Relay Service) FGD (Feature Group D) originations allowed? This field supports the FGD Incoming Signaling Release 2 secured feature, which has an SFID 373. (For more information on this feature, see Division 2, Section 4A373.)

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If WIRELINE is "Y", then:

- WIRELESS must be "N"
- WIRELESS SA must be "N"

For 5E9 only, if WIRELINE is "Y", ANSWER SUPV must not be "N".

4. FORM ENTRIES - 5417-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

4.2 * TGN

Description: Enter the OSPS incoming TGN (Trunk Group Number).

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The incoming trunk group being assigned here must be defined on a TKGRP form (5202 Record) with a TRK DIR of "INC" and a TRKCLS of "FIOPR".

LISTING SERVICES

The following fields (Section 4.3 - Section 4.12) define Listing Services options.

4.3 LSTG SVC TRAF

Description: Does this trunk group have TA Listing Services traffic?

Software Release: 5E6(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If LSTG SVC TRAF is "Y",

- CARR SELEC ENF must be "N";
- TRKCLS cannot be "DIOR";
- if TRKCLS is not "FIOPR",
 - COIN TYPE must not be entered.
 - SIG TYPE must be "NOCN";
 - START PULSE must be "TURNBACK";
- and TRKCLS is NOT "INAISTRK", then TRK TYPE must be "COMB", "DO", "DOP", "DOM", or "D1P".
- and TRKCLS is "LATA", then
 - ANSWER SUPV must not be entered.

— FROM LOCAL OFC must be entered.

- and TRKCLS is "PF", FROM LOCAL OFC must be entered.
- For 5E10 and later: TKGRP INPUTSING cannot be "CCIS6" nor "ISUP7" when LSTG SVC TRAF is "Y" on the corresponding OPRTK form. TGNs match on corresponding OPRTK and TKGRP forms.

If LSTG SVC TRAF is "N",

- TRKCLS must be "DIOR", "FIOPR", or "PF";
- INTER FOR CC must be "N";
- FROM TA SYSTEM must be "N";
- CALL COPML must be "N".
- For 5E7 and later, when LSTG SVC TRAF is "N" and TRKCLS is "PF", then:
 - TRK TYPE must be "COMB", "D0", "D0P", "D0M" or "D1P".
 - SIG TYPE must be "NOCN".
 - BILLING DN on the corresponding TKGRP form must be entered. The corresponding TKGRP form is found by matching TGN on the TKGRP form with the TGN on the OPRTK form.
- LSTG SVC TRAF is "N" and TRKCLS is "LATA", then:
 - SIG TYPE must be "NOCN".
 - BILLING DN must be a ten-digit number or must not be entered.

If TRKCLS is not "FIOPR", "DIOR" or "INAISTRK" on the TKGRP form associated with an OPRTK form, the trunk group is used for Listing Services and LSTG SVC TRAF must be "Y". The TKGRP form is found by matching TGN on the OPRTK form with TGN on the TKGRP form.

4.4 FROM TA SYSTEM

Description: Is the Listing Services traffic coming from a Toll and Assist Operator system?

Software Release: 5E6(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If TRKCLS is "INAISTRK", FROM TA SYSTEM must be "N".

If LSTG SVC TRAF is "N", FROM TA SYSTEM must be "N".

4.5 CALL COMPL

Description: Is Listing Services call completion allowed?

Software Release: 5E6(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If LSTG SVC TRAF is "N", CALL COPML must be "N".

4.6 INTER FOR CC

Description: Can an interLATA carrier be used for interLATA Listing Services Call Completion calls?

Software Release: 5E6(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "N" if TRKCLS is "INAISTRK", or LSTG SVC TRAF is "N".

If INTER FOR CC is "Y", LATA TYPE must not be "INTRA".

4.7 DA AGGR TRK

Description: Is the DA/DACC (Directory Assistance/DA Call Completion) Enhancements feature active? This field indicates if a trunk group is used as a traffic aggregator for Directory Assistance calls for the OSPS Enhancements to DA and DACC for Wireline and Non-Wireline Users special feature. A traffic aggregator is an entity that collects DA calls from a number of telephone stations and sends them on to an OSPS DA system over a dedicated trunk group. For more information on this secured feature, see Division 2, Section 4A117.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If DA AGGR TRK is "Y" then:

LSTG SVC TRAF must be "Y"

WLESS DCIS must be "N"

WLINE DCIS must be "N"

- and AGGR IS CMC is "Y", then

COIN must be "N".

COIN POST PAID must be "N"

OL SCRIN must not be "DED"

SIG TYPE must be "NOCN".

Enhanced DA/DACC is a secured feature, therefore SFID 117 ACT must be set to "Y" on the SFSYS form (5713-1 Record), before the DA AGGR TRK field on the OPRTK form can be set to "Y".

For 5E9(1) and later, if DA AGGR TRK is "Y" then, AGGR ID, AGGR INDEX and AGGR IS CMC must be entered.

4.8 AGGR ID

Description: Enter the ID (Aggregator Identification Index) of the traffic aggregator using this trunk.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 99999

Data Rules:

If DA AGGR TRK is "Y", then AGGR ID, AGGR INDEX and AGGR IS CMC must be entered. The index is passed to the LSDB to identify the aggregator.

If the same AGGRID INDEX value is entered on two or more OPRTK forms, then those forms must also have identical AGGR ID values.

▲ **WARNING:** AGGR ID is set to blank if DA AGGR TRK, WLINE DCIS, and WLESS DCIS are "N".

4.9 AGGR INDEX

Description: Enter the index to identify the traffic aggregator using this trunk.

Software Release: 5E9(1) and later.

Valid Entries: 0 - 31

Data Rules:

If DA AGGR TRK is "Y", then AGGR ID, AGGR INDEX and AGGR IS CMC must be entered.

4.10 AGGR IS CMC

Description: Is this traffic aggregator a Cellular Mobile Carrier?

Software Release: 5E9(1) and later.

Valid Entries: Y, N

Data Rules:

If DA AGGR TRK is "Y", then AGGR ID, AGGR INDEX and AGGR IS CMC must be entered.

If AGGR IS CMC is "Y", then AGGR NPA and AGGR NXX must be entered. However, if "N" is entered, AGGR NPA and AGGR NXX cannot be entered.

4.11 AGGR NPA

Description: Enter the 3-digit area code for LATA determination of the CMC (Cellular Mobile Carrier). The NPA and NXX are associated with the CMC's MTSO (Mobile Telephone Switching Office). The CMC may have several MTSO's with different NPA/NXXs.

Software Release: 5E9(1) and later.

Valid Entries: 200 - 999

Data Rules:

If AGGR NPA and AGGR NXX values are entered on the OPRTK form, matching NPA and NXX values must be found on the NPAMAP form (5414 Record).

4.12 AGGR NXX

Description: Enter the 3-digit exchange code for LATA determination of the Cellular Mobile Carrier. The NPA and NXX are associated with the CMC's MTSO. The CMC may have several MTSO's with different NPA/NXXs.

Software Release: 5E9(1) and later.

Valid Entries: 200 - 999

Data Rules:

If AGGR NPA and AGGR NXX values are entered on the OPRTK form, matching NPA and NXX values must be found on the NPAMAP form (5414 Record).

4.13 WLINE DCIS

Description: Is wireline direct connect incoming signaling traffic being supported on this trunk group? The fields WLINE DCIS and WLESS DCIS were added to support the Feaure Group D Incoming Signaling for Special Applications, Minnesota Equal Access Network Services Group feature. For more information on this feature see Division 2, Section 4A379.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

WLINE DCIS must be "N" if DA AGGR TRK is "Y".

If WLINE DCIS is "Y":

- AGGR ID must be entered

- ANSWER SUPV must not be entered

- DA AGGR TRK must be "N"

- TRK CLASS must be "LATA"

- WIRELESS must be "N"

- WIRELESS SA must be "N"

WIRELINE must be "N"
WLESS DCIS must be "N"

4.14 WLESS DCIS

Description: Is the wireless direct connect incoming signaling traffic being supported on this trunk group. The fields WLINE DCIS and WLESS DCIS were added to support the Feature Group D Incoming Signaling for Special Applications, Minnesota Equal Access Network Services Group feature. For more information on this feature, see Division 2, Section 4A379.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

WLESS DCIS must be "N" if DA AGGR TRK is "Y".

If "Y" is entered:

AATOS SDN NRA must be "N"
AGGR ID must be entered
ANI must be "Y"
ANSWER SUPV must be entered
AUTO COIN TRAF must be "N"
COIN must be "N"
COIN POST PAID must be "N"
DA AGGR TRK must be "N"
SIG TYPE must be "NOCN"
TRK CLASS must be "LATA"
TRK TYPE must be
"COMB", "D0", "D0M", "D0P"
or "D1P"
WIRELESS SA must be "N"
WIRELESS must be "N"
WIRELINE must be "N"

4.15 CARRIER BRAND

Description: Is carrier specific branding active on this trunk group? This field supports the Carrier Specific Branding on Seizure for ACCS and ACTS feature. For more information on this feature see Division 2, Section 4A378.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

4.16 LS RECONNECT

Description: Is Listing Services Reconnect allowed on this trunk? This field supports OSPS Customer

Controlled Reconnect to Directory Assistance/ Listing Services feature. For more information on this feature, see Division 2, Section 4A381.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

4.17 ACCESS ID

Description: Enter the CAP (Competitive Access Provider) Access ID. This ID is used by OSPS when generating AMA records. The ACCESS ID field was added to support the AMA Recording of the Access ID for Competitive Access Provider Calls feature. For more information on this feature, see Division 2, Section 4A392.

Software Release: 5E9(1) and later.

Required Field.

Default: 0

Valid Entries: 0 for LEC or 1 - 255

4.18 SPL ACC SRV ID

Description: Enter the special access service identifier. This field is used to specify a service provider via an access ID, and was added to support the Identification of Calls Originated Through Special Access Methods feature.

Software Release: 5E10 and later.

Required Field.

Default: 0

Valid Entries: 0 - 10

Data Rules:

If 0 is not entered (i.e., 1 - 10 is entered):

- then TRK CLASS must not be "DIOR", "CAMAANI" or "CAMAONI".
- AATOS SDN NRA must be "N".
- INPULSING cannot be set to "ISUP7" on the corresponding TKGRP form, The forms correspond in the TGN fields match. .P

4.19 DA AUTOMATION

Description: Should LS/DA (Listing Service / Directory Assistance) calls be sent to an automated position? This field also supports the Record and Playback secured feature. For more information on this feature, see Division 2, Section 4A415.

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then

- APOS TREATMENT must be "Y"
- LSTG SVC TRAF must be "Y"

4.20 CALL LNP SRC

Description: The CALL LNP SRC field is used to specify one of the following:

- none of the back numbers arriving on this trunk group are in a portable NPA-NXX.
- the LRN PARAMETER should be used for all back number LRNs for calls arriving on this trunk group.
- an LNP query should be made on the back number to determine the back LRN.

Software Release: 5E11 and later

Required Field.

Default: NOPT

Valid Entries: NOPT, OFCD, and QURY

Data Rules:

When CALL LNP SRC is "OFCD", LRN PARAMETER must be entered.

4.21 LRN PARAMETER

Description: The LRN PARAMETER field is used to specify the Location Routing Number (LRN) to be used as a back number for calls arriving on the trunk group. For more information, see Division 2, Section 4A417 (for LEC) or Section 4A419 (for AT&T).

Software Release: 5E11 and later

Valid Entries: NPANXXXXXX or blank

Data Rules:

When CALL LNP SRC is "OFCD", LRN PARAMETER must be entered.

The following Figure examines the trunk variables and OLS (Originating Line Screening) to determine coin treatment.

COIN - Indicates that the trunk carries coin traffic.

TRK TYPE = "SUP" - Indicates the trunk is super-combined.

COIN POST PAID - Indicates the trunk carries Post-pay traffic.

COIN?	TRK TYPE = "SUP"?	COIN POST PAID?	TREATMENT
N	N	N	Call is Non-Coin. OLS is not needed for coin determination.
N	N	Y	OLS entry is used to indicate postpay coin. (See Note).
Y	N	N	Call is pre-pay coin.

			OLS is not needed for coin determination.
Y	N	Y	
Y	Y	N	If the start pulse indicates coin, the call is treated as pre-pay coin.
			OLS is not needed for coin determination.
Y	Y	Y	If the start pulse indicates coin, the call is treated as post-pay coin.
			If OLS is done, OLS should return coin, or an assert is fired.

Note: In this case, an OLS entry is needed to indicate coin. In all other cases, if there is an OLS entry, the results should not contradict the trunk data, or an assert is fired.

Figure 1 OLS DETERMINATION FOR COIN TREATMENT

```

SCREEN 1 OF 2                                5ESS Switch
opr tk                                     OFFICE DATA ADMINISTRATION
(5417-1/2/3)                             ACCESS TANDEM INCOMING TRUNK GROUPS

*1. TGN      _____  13. COIN TYPE      ____  25. ANSWER SUPV      _
#2. TRKCLS   _____  14. SIG TYPE      NOCN  26. AATOS SDN NRA    N
#3. ORIG NPA _____  15. AUTO COIN TRAF  N    27. APOS TREATMENT  N
#4. LATA TYPE _____  16. ACQS SCR N    28. WIRELESS        N
#5. TRK TYPE _____  17. ANI          Y    29. WIRELESS SA     N
  6. SCR N INDEX _____  18. OS EA SIG      N    30. SELECTIVE OLS   N
  7. INTRA CARR ID _____  19. CARR SELEC ENF  N    31. ALLOW 7 DIGITS  Y
  8. INTER CARR ID _____  20. START PULSE    TURNBACK 32. ALLOW INTRA DA  Y
  9. INTL CARR ID _____  21. PROTECTED NXXS  N    33. CARRIER CCS    N
10. OL SCR N _____  22. EXCEPTION AREAS  N    34. ALLOW AILS      N
11. COIN      N          23. MECH          Y    35. WIRELINE       N
12. COIN POST PAID N    24. FROM LOCAL OFC  Y

```

```

SCREEN 2 OF 2                                5ESS SWITCH
opr tk                                     OFFICE DATA ADMINISTRATION
(5417-1/2/3)                             ACCESS TANDEM INCOMING TRUNK GROUPS

LISTING SERVICES                          46. WLINE DCIS      N
36. LSTG SVC TRAF  N    47. WLESS DCIS      N
37. FROM TA SYSTEM N    48. CARRIER BRAND  N
38. CALL COMPL     N    49. LS RECONNECT    N
39. INTER FOR CC   N    50. ACCESS ID       0
40. DA AGGR TRK    N    51. SPL ACC SRV ID  00
41. AGGR ID        _____  52. DA AUTOMATION  N
42. AGGR INDEX     _____  53. CALL LNP SRC   NOPT
43. AGGR IS CMC    _____  54. LRN PARAMETER  _____
44. AGGR NPA       _____
45. AGGR NXX       _____

```

Figure 2 SAMPLE OPRTK FORM 5E11 AND EARLIER SOFTWARE RELEASES

```

opr tk                      5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5417-1/2/3/4)          ACCESS TANDEM INCOMING TRUNK GROUPS

*1. TGN      _____  13. COIN      N      25. MECH      Y
#2. TRKCLS   _____  14. COIN POST PAID N      26. FROM LOCAL OFC Y
#3. ORIG NPA _____  15. COIN TYPE   _____  27. ANSWER SUPV   _
#4. LATA TYPE _____  16. SIG TYPE   NOCN      28. AATOS SDN NRA N
#5. TRK TYPE _____  17. AUTO COIN TRAF N      29. APOS TREATMENT N
  6. SCR N INDEX _____  18. ACQS SCR N      NONE      30. WIRELESS      N
  7. RAX      _____  19. ANI      Y      31. WIRELESS SA   N
  8. CODE RESTRICT _____  20. OS EA SIG   N      32. SELECTIVE OLS N
  9. INTRA CARR ID _____  21. CARR SELEC ENF N      33. ALLOW 7 DIGITS Y
10. INTER CARR ID _____  22. START PULSE TURNBACK 34. ALLOW INTRA DA Y
11. INTL CARR ID _____  23. PROTECTED NXXS N      35. CARRIER CCS   N
12. OL SCR N      NONE      24. EXCEPTION AREAS N      36. ALLOW AILS     N

```

```

opr tk                      5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5417-1/2/3/4)          ACCESS TANDEM INCOMING TRUNK GROUPS

```

```

37. WIRELINE N

```

```

opr tk                      5ESS Switch      _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5417-1/2/3/4)          ACCESS TANDEM INCOMING TRUNK GROUPS

  LISTING SERVICES      48. WLINE DCIS      N      60. OLNS AMA MODULE N
38. LSTG SVC TRAF N      49. WLESS DCIS      N      61. OLNS ANI GRPID  0
39. FROM TA SYSTEM N      50. CARRIER BRAND N      62. INTERLATA DACC N
40. CALL COMPL      N      51. LS RECONNECT N      63. DIALECT OLS     N
41. INTER FOR CC      N      52. ACCESS ID      0      64. ALTERNATE SERV N
42. DA AGGR RTK      N      53. SPL ACC SRV ID 00      65. ANI SS7ISUP     N
43. AGGR ID      _____  54. DA AUTOMATION N      66. ANI TXT SS7ISUP N
44. AGGR INDEX      _____  55. CALL LNP SRC NOPT
45. AGGR IS CMC      _      56. LRN PARAMETER _____
46. AGGR NPA      _____  57. TRKG PROTD NXXS N
47. AGGR NXX      _____  58. OLNS ACT STATE OLS
                                59. HONOR OLNS      N

```

Figure 3 SAMPLE OPR TK FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 4S: 5418 RECORD ACCESS TANDEM CARRIER AND ROUTE INFORMATION FOR PRIMARY AND ALTERNATE TOLL AND ASSISTANCE OPERATOR SERVICES FORM - DIOPR

1. GENERAL

The 5418 Record is available with 5E4(2) and later Software Releases. This record defines the type of carrier and traffic over each carrier group that can access the OSPS (Operator Services Position System) operator.

The 5418 Record contains routing information for a particular carrier identification (key). It also provides data to determine if all call types will be handled by the OS (Operator System) (could have restricted call types). If no call restrictions are present for a carrier identification, then the primary code index and overlap outpulsing indicator will be used to route the call.

If a particular call type is restricted and ISP (Intermediate Switching Point) determines that the restrictions apply to the call, the code index and overlap outpulsing indicator will be overwritten by an alternate value, and the call will be routed normally.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.25

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * CARRIER ID

Description: Enter the interexchange carrier identification number. This is the intraLATA/interLATA/international carrier identification number from the OPRTK form (5417 Record), LEC (Local Exchange Carrier), or the Feature Group B carrier.

Required Field.

For 5E4(2) - 5E7: 0 - 999 or LEC

For 5E8 only: LEC or
0 - 9999 for Feature Group B
0 - 999 for Feature Group D

For 5E9(1) and later: LEC or 0 - 9999

Data Rules:

For 5E8 and later:

- If CARRIER ID is 288 or "LEC", B CARRIER must be "N".
- If B CARRIER is set to "Y" then, the CARRIER ID must also be defined on an ICF form with FEAT GRP

set to "B".

For 5E8 only, if CARRIER ID is 1000 - 9999, then B CARRIER must be "Y".

2.3 * B CARRIER

Description: Is this a Feature Group B carrier? This is a key field in addition to the CARRIER ID field.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E8 and later:

- If B CARRIER is "N", then the following fields must not be entered:

C950 1+ ALT CDI

C950 1+ OVLP

C950 0+ ALT CDI

C950 0+ OVLP

NC950 ALT CDI

NC950 OVLP

COIN ALT CDI

TELECONF ALT CID

TELECONF OVLP

- If B CARRIER is "Y", COIN ALT CDI, TELECONF ALT CDI, and TELECONF OVLP must not be entered.
- If B CARRIER is set to "Y", then the CARRIER ID must also be defined on an ICF form with FEAT GRP set to "B".

2.4 # PRIM CDI

Description: Enter the primary code index of the OS (Operator System) that handles operator calls for this

carrier being defined (or of the announcement if no operator system is assigned).

An entry in this field is used as a key into the RAR form (5301 Record) record to route calls out of the office to an external operator switch.

Required Field.

Valid Entries: 0 - 4095

Data Rules:

For 5E8 and later:

- If PRIM CDI is not 0, the value must match a value in the CDI field on an RAR form.
- If PRIM CDI is 0, the OSPS TA on the OSPSOPT form must be "Y".

2.5 PRIM OVLP

Description: Will overlap outpulsing be allowed to the primary operator switch (route)?

Default: N

Valid Entries: Y, N

2.6 COIN ALT CDI

Description: Enter an alternate code index for coin traffic (indicating where restricted coin traffic is to be routed).

Valid Entries: 0 - 4095

Data Rules:

The entry in the COIN ALT CDI field must not equal the entry in the PRIM CDI field.

This field should be left blank if the primary OS will route coin traffic. If this field contains a valid entry, the primary OS will be restricted from handling coin traffic.

For 5E8 and later, the value entered in this field must match a value entered in the CDI field on the RAR form. In addition, if 0 is entered, then the OSPS TA field on the OSPSOPT form (5424 Record) must be "Y".

2.7 ACQSAQ ALT CDI

Description: Enter an alternate code index where ACQS automatic quote traffic will be routed.

Valid Entries: 0 - 4095

Data Rules:

The entry in the ACQSAQ ALT CDI field must not equal the entry in the PRIM CDI field.

This field should be left blank if the primary OS will route ACQS auto quote traffic. If this field contains a valid entry, the primary OS will be restricted from handling ACQS auto quote traffic.

For 5E8 and later, if 0 is entered in this field, then OSPS TA on the OSPSOPT form (5424 Record) must be "Y". Also, the value entered in this field must match a value entered in the CDI field on an RAR form.

2.8 ACQSVQ ALT CDI

Description: Enter an alternate code index where ACQS voice quote traffic is to be routed.

Valid Entries: 0 - 4095

Data Rules:

The entry in the ACQSVQ ALT CDI field must not equal the entry in the PRIM CDI field.

This field should be left blank if the primary OS will route ACQS voice quote traffic. If this field contains a valid entry, the primary OS will be restricted from handling ACQS voice quote traffic.

For 5E8 and later, if 0 is entered, then OSPS TA on the OSPSOPT form must be "Y". Also, the value entered in this field must match a value entered in the CDI field on an RAR form.

2.9 NC950 ALT CDI

Description: Enter an alternate code index for noncoin 950 1xxx traffic.

Valid Entries: 0 - 4095

Data Rules:

The entry in the NC950 ALT CDI field must not equal the entry in the PRIM CDI field.

This field should be left blank if the primary OS will be restricted from handling noncoin 950 traffic.

For 5E8 and later, the value entered in this field must match a value entered in the CDI field on the RAR form. In addition, if 0 is entered, then the OSPS TA field on the OSPSOPT form (5424 Record) must be "Y".

2.10 C950 1+ ALT CDI

Description: Enter an alternate code index for coin 950 1+ traffic.

Valid Entries: 0 - 4095

Data Rules:

The entry in the C950 1+ ALT CDI field must not equal the entry in the PRIM CDI field. If an entry is made in this field, then an entry is required in the C950 0+ ALT CDI.

This field should be left blank if the primary OS will be restricted from handling coin 950 1+ traffic.

For 5E8 and later, this field must not be entered if C950 0+ ALT CDI is not entered.

For 5E8 and later, the value entered in this field must match a value entered in the CDI field on the RAR form. In addition if 0 is entered, then the OSPS TA field on the OSPSOPT form (5424 Record) must be "Y".

2.11 C950 0+ ALT CDI

Description: Enter an alternate code index for coin 950 0+ traffic.

Valid Entries: 0 - 4095

Data Rules:

The entry in the C950 0+ ALT CDI field must not equal the entry in the PRIM CDI field. If an entry is made in

this field, then an entry is required in the C950 1+ ALT CDI.

This field should be left blank if the primary OS will be restricted from handling coin C950 1+ traffic.

For 5E8 and later, this field must not be entered if 950 0+ ALT CDI is not entered.

For 5E8 and later, the value entered in this field must match a value entered in the CDI field on the RAR form. In addition if 0 is entered, then the OSPS TA field on the OSPSOPT form (5424 Record) must be "Y".

2.12 TELECONF ALT CDI

Description: Enter an alternate code index for teleconferencing traffic.

Valid Entries: 0 - 4095

Data Rules:

The entry in the TELECONF ALT CDI field must not equal the entry in the PRIM CDI field

This field should be left blank if the primary OS will be restricted from handling teleconferencing traffic.

For 5E8 and later, the value entered in this field must match a value entered in the CDI field on the RAR form. In addition if 0 is entered, then the OSPS TA field on the OSPSOPT form (5424 Record) must be "Y".

2.13 COIN OVLP

Description: Will overlap outpulsing be allowed on calls to the OS handling restricted coin traffic?

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route coin traffic.

For 5E8 and later, if COIN ALT CDI is not entered, COIN OVLP must be "N".

2.14 ACQSAQ OVLP

Description: Will overlap outpulsing be allowed to the alternate ACQS automatic quote?

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route ACQS auto quote traffic.

For 5E8 and later, this field must be "N" if ACQSAQ ALT CDI is not entered.

2.15 ACQSVQ OVLP

Description: Will overlap outpulsing be allowed to the alternate ACQS voice quote.

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route ACQS voice quote traffic.

For 5E8 and later, this field must be "N" if ACQSVQ ALT CDI is not entered.

2.16 NC950 OVLP

Description: Will overlap outpulsing be allowed to the alternate noncoin 950 traffic.

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route noncoin 950 traffic.

For 5E8 and later, this field must be "N" if NC950 ALT CDI is not entered.

2.17 C950 1+ OVLP

Description: Will overlap outpulsing be allowed to the alternate coin 950 1+ traffic?

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route coin 950 1+ traffic.

For 5E8 and later, this field must be "N" if either C950 1+ ALT CDI is not entered, or C950 0+ ALT CDI is not entered.

2.18 C950 0+ OVLP

Description: Will overlap outpulsing be allowed to the alternate coin 950 0+ traffic?

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route coin 950 0+ traffic.

For 5E8 and later, this field must be "N" if either C950 1+ ALT CDI or C950 0+ ALT CDI is not entered.

2.19 TELECONF OVLP

Description: Will overlap outpulsing be allowed to the alternate teleconferencing traffic?

Default: N

Valid Entries: Y, N

Data Rules:

This field should be left blank if the primary OS will route teleconferencing traffic.

For 5E8 and later, this field must be "N" if TELECONF ALT CDI is not entered.

diopr 5ESS Switch —
OFFICE DATA ADMINISTRATION
(5418) ACCESS TANDEM ROUTE INFO. FOR PRIMARY & ALTERNATE TOLL & ASSIST. O.S.

*1. CARRIER ID 007	4. COIN ALT CDI _____	11. COIN OVLP N
#2. PRIM CDI 0236	5. ACQSAQ ALT CDI _____	12. ACQSAQ OVLP N
3. PRIM OVLP N	6. ACQSVQ ALT CDI _____	13. ACQSVQ OVLP N
	7. NC950 ALT CDI _____	14. NC950 OVLP N
	8. C950 1+ ALT CDI _____	15. C950 1+ OVLP N
	9. C950 0+ ALT CDI _____	16. C950 0+ OVLP N
	10. TELECONF ALT CDI _____	17. TELECONF OVLP N

Figure 1 SAMPLE DIOPR FORM 5E4 - 5E7 SOFTWARE RELEASES

```

                                5ESS Switch          _   No errors/warnings
diopr          OFFICE DATA ADMINISTRATION
(5418) ACCESS TANDEM ROUTE INFO. FOR PRIMARY & ALTERNATE TOLL & ASSIST. O.S.

```

*1. CARRIER ID 0007	5. COIN ALT CDI	12. COIN OVLP	N
*2. B CARRIER N	6. ACQSAQ ALT CDI	13. ACQSAQ OVLP	N
#3. PRIM CDI 0236	7. ACQSVQ ALT CDI	14. ACQSVQ OVLP	N
4. PRIM OVLP N	8. NC950 ALT CDI	15. NC950 OVLP	N
	9. C950 1+ ALT CDI	16. C950 1+ OVLP	N
	10. C950 0+ ALT CDI	17. C950 0+ OVLP	N
	11. TELECONF ALT CDI	18. TELECONF OVLP	N

Figure 2 SAMPLE DIOPR FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4T: 5419 RECORD OSPS LEC INTRACOMPANY NETWORK FORM - DNNTWK

1. GENERAL

The 5419 Record is available with the 5E4(2) Software Release.

This record provides LEC (Local Exchange Carrier) intracompany network information for the OSPS (Operator Services Position System) TA (Toll and Assistance) features. Carriers are furnished for operator-dialed directory numbers.

The carrier used for an operator-dialed third number or conference number will be the LEC if the LEC can handle it. If an interLATA carrier is needed, the one selected will be the global default conference carrier, defined in the CF CARR field of the OSPSOP form (5424 Record).

For operator-dialed third or conference numbers to specific NPA-NXX combinations, a particular carrier can be indicated to be used. The carrier indicated on this form is always used to route to the specified NPA-NXX combination, overriding the carrier indicated on the 5424 Record. There can be as many as three carriers identified per NPA. Each carrier identified is for all NXXs that are marked with its designation (A, B or C). If a DNNTWK form is submitted, then there must be at least one OSPSOP form (5401 Record) defined for this office.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * NPA

Description: Enter a valid 3-digit NPA (Numbering Plan Area).

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 or 1

For 5E9(1) and later: 200 - 999

2.3 # CARRIER A

Description: Enter a valid interLATA carrier identification number.

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

At least one of the NXX positions must be selected for CARRIER A. CARRIER A must not be the same as CARRIER B or CARRIER C.

Entries in this field must be defined as CARRIER ID on an ICF form (5305 Record). In addition, for 5E9(1) and later, FEAT GRP on the ICF form must be set to "D".

2.4 CARRIER B

Description: Enter a valid interLATA carrier identification number.

Valid Entries:

For 5E4(2) - 5E8: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Entries in this field must be defined as CARRIER ID on an ICF form. In addition, for 5E9(1) and later, FEAT GRP on the ICF form must be set to "D".

If one or more NXX positions are defined with "B", then CARRIER B must be specified. CARRIER B cannot be the same as CARRIER A or CARRIER C.

2.5 CARRIER C

Description: Enter a valid interLATA carrier identification number.

Valid Entries:

For 5E4(2) - 5E8: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Entries in this field must be defined as CARRIER ID on an ICF form. In addition, for 5E9(1) and later, FEAT GRP on the ICF form must be set to "D".

If one or more NXX positions are defined with "C", then CARRIER C must be specified. CARRIER C cannot be the same as CARRIER A or CARRIER B.

2.6 LIST OF NXXs (200 - 399)

Description: Enter the list of NXXs for the NPA/CARRIER combination. Each NXX that can be dialed must be assigned to either Carrier A, B, or C. An NXX should be left blank if it is not served by any carrier.

Valid Entries: A, B, C

Data Rules:

At least one of the NXX positions must be defined with CARRIER A. If either CARRIER B or CARRIER C are defined, then at least one of the NXX positions must be defined with them.

SCREEN 1 OF 3
dnntwk
(5419)

5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS LEC INTRACOMPANY NETWORK

*1. NPA 312
 #2. CARRIER A 459
 3. CARRIER B ____
 4. CARRIER C ____

5. LIST OF NXXs (200-399)

01234	56789	01234	56789	01234	56789	01234	56789
1. 200	AAAAA AAAAA	6. 250	_____	11. 300	_____	16. 350	_____
2. 210	_____	7. 260	_____	12. 310	_____	17. 360	_____
3. 220	_____	8. 270	_____	13. 320	_____	18. 370	_____
4. 230	_____	9. 280	_____	14. 330	_____	19. 380	_____
5. 240	_____	10. 290	_____	15. 340	_____	20. 390	_____

SCREEN 2 OF 3

dnntwk
 (5419)

5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS LEC INTRACOMPANY NETWORK

5. LIST OF NXXs (400-799)

01234	56789	01234	56789	01234	56789	01234	56789
21. 400	_____	31. 500	_____	41. 600	_____	51. 700	_____
22. 410	_____	32. 510	_____	42. 610	_____	52. 710	_____
23. 420	_____	33. 520	_____	43. 620	_____	53. 720	_____
24. 430	_____	34. 530	_____	44. 630	_____	54. 730	_____
25. 440	_____	35. 540	_____	45. 640	_____	55. 740	_____
26. 450	_____	36. 550	_____	46. 650	_____	56. 750	_____
27. 460	_____	37. 560	_____	47. 660	_____	57. 760	_____
28. 470	_____	38. 570	_____	48. 670	_____	58. 770	_____
29. 480	_____	39. 580	_____	49. 680	_____	59. 780	_____
30. 490	_____	40. 590	_____	50. 690	_____	60. 790	_____

SCREEN 3 OF 3

dnntwk
 (5419)

5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS LEC INTRACOMPANY NETWORK

5. LIST OF NXXs (800-999)

01234	56789	01234	56789	01234	56789	01234	56789
61. 800	_____	66. 850	_____	71. 900	_____	76. 950	_____
62. 810	_____	67. 860	_____	72. 910	_____	77. 960	_____
63. 820	_____	68. 870	_____	73. 920	_____	78. 970	_____
64. 830	_____	69. 880	_____	74. 930	_____	79. 980	_____
65. 840	_____	70. 890	_____	75. 940	_____	80. 990	_____

Figure 1 SAMPLE DNNTWK FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4U: 5420 RECORD CARRIER FOR OPERATOR SPECIAL DIALED CODES FORM - OCNTWK

1. GENERAL

The 5420 Record is available with 5E4(2) and later Software Releases. The carrier used for an operator special-dialed code will be the LEC (Local Exchange Carrier) if the LEC can handle it. If an interLATA carrier is needed, the one selected will be the global default route carrier (RT CARR field on the OSPSOPT form (5424 Record)). This form is used to specify exceptions to the above method of carrier selection. The carrier indicated on this form is always used to route to the given operator special-dialed code.

Given a specific NPA (Numbering Plan Area), TTC (Terminating Toll Center), and an operator special-dialed code, a particular carrier can be indicated to be used. If an OCNTWK form (5420 Record) is submitted, at least one OSPSOP form (5401 Record) must be submitted for this office.

If an operator-entered route number is floatable (i.e., the operator can drop off the call and leave the back and route numbers talking), then the carrier used must be the same as the one used for the forward number.

The carrier for an operator-entered non-floatable domestic route number is found by first consulting the 5420 Record to see if a specific carrier is desired. The carrier selected for a non-floatable route number does not have to have operator service supplied to it by OSPS.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * NPA

Description: Enter a valid NPA (Numbering Plan Area).

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 or 1

For 5E9(1) and later: 200 - 999

2.3 * TTC

Description: Enter a Terminating Toll Center.

Required Field.

Valid Entries: 0 - 99

2.4 * OSDC

Description: Enter an OSDC (Operator Special Dialed Code).

Required Field.

Valid Entries: 0 - 999, 1100 - 1199, or 11000 - 11999

2.5 # CARRIER ID

Description: Enter an interLATA carrier identification number.

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Entries in this field must be defined in the CARRIER ID field of an ICF form (5305 Record) with FEAT GRP equal to "D".

ocntwk	5ESS Switch	—
(5420)	OFFICE DATA ADMINISTRATION	
	OSPS CARRIER FOR OPERATOR SPECIAL DIALED CODES	
*1. NPA	312	
*2. TTC	007	
*3. OSDC	01123	
#4. CARRIER ID	114	

Figure 1 SAMPLE OCNTWK FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4V: 5421 RECORD OSPS RSM/CARRIER DATA FORM - RSMCAR

1. GENERAL

The 5421 Record is available with 5E4(2) and later Software Releases.

This record defines the routing indexes to a carrier from an RSM (Remote Switching Module). When an OSPS (Operator Services Position System) call is routed to a carrier, the routing information is normally on an ICF form (5305 Record). But, if the call came to the OSPS through an RSM, it is routed out of that same RSM to the desired carrier.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CARRIER ID

Description: Enter an interexchange carrier identification number.

Required Field.

Valid Entries:

For 5E4(2) - 5E7: 0 - 999

For 5E8:

0 - 999 for Feature Group D

0 - 9999 for Feature Group B

For 5E9(1) and later: 0 - 9999

Data Rules:

Entries in this field must be defined in the CARRIER ID field of an ICF form.

When CARRIER ID and RSM are defined on this form, and CARRIER ID is defined on the ICF form (5305 Record) with an ACCESS TYPE of "BOTH" or "TBOTH", DIG ROUTING equal to "N" and CARRIER TYPE equal to "CONSOL", the RSMCAR form must have DOMES CDI, DOMES RTI, TRANS CDI, TRANS RTI, INTL CDI, INTL RTI, SAC CDI, and SAC RTI entries.

For 5E8 only, if FEAT GRP is "D", then CARRIER ID cannot be four digits.

For 5E9(1) and later, CARRIER ID and FEAT GRP on the RSMCAR form must match CARRIER ID and FEAT GRP on the corresponding ICF form.

2.3 * FEAT GRP

Description: Enter the Feature Group type. (For more information on Feature Groups see Division 2, Section 3I.)

Software Release: 5E8 and later

Required Field.

Valid Entries:

Valid FEAT GRP Entries	
Entry	Definition
B	Feature Group B
D	Feature Group D

Data Rules:

If FEAT GRP equals "B":

- FEATURE GROUP B ONLY fields must be entered.
- FEATURE GROUP D ONLY fields must not be entered.
- INTRA LATA must not be entered.

If FEAT GRP equals "D":

- For 5E8 only, CARRIER ID cannot be four digits,
- FEATURE GROUP B ONLY fields cannot be entered,
- INTRA LATA must be entered, and
- CARRIER ID must be defined on an ICF form:
 - if CARRIER TYPE on the ICF form is "CONSOL", ACCESS TYPE is "LTRM", "TLTM", "BOTH" or "TBOTH", and DIG ROUTING is "N", then the RSMCAR form must have an entry in the following fields:

DOMES CDI

DOMES RTI

INTL CDI

INTL RTI

SAC CDI

SAC RTI

- if CARRIER TYPE on the ICF form is "IC", the RSMCAR form must not have any entry on the INTL CDI or INTL RTI fields.
- if CARRIER TYPE is "IC" on the ICF form, and ACCESS TYPE is entered as "LTRM", "TLTM", "BOTH" or "TBOTH" and DIG ROUTING is entered as "N", then RSMCAR form must have an entry on the following fields:

DOMES CDI

DOMES RTI

SAC CDI

SAC RTI

- if CARRIER TYPE on the ICF form is "INC" and DIG ROUTING is entered as "N", then the RSMCAR form must have an entry in the following fields:

INTL CDI

INTL RTI

SAC CDI

SAC RTI

- if CARRIER TYPE on the ICF form is "INC", the RSMCAR form must have the following fields populated as follows:

INTRA LATA equals N

DOMES CDI is blank

DOMES RTI is blank

- if CARRIER TYPE on the ICF form is "LEC" or "PSEUDO", the RSMCAR form must have the following fields populated as follows:

INTRA LATA equals Y

DOMES CDI is blank

DOMES RTI is blank

INTL CDI is blank

INTL RTI is blank

SAC CDI is blank

SAC RTI is blank

2.4 * RSM

Description: Enter the Remote Switching Module number.

Required Field.

Valid Entries: 1 - 192

Data Rules:

For each entry in this field, the corresponding EQIM form (5700 Record) (where the EQIM IM field on the EQIM form matches the entry in this field) must have values of either "RSM", "ORM" or "TRM" in the SM USAGE field on the EQIM form.

2.5 OSPS SERVES

Description: Does this OSPS provide operator service to this carrier for calls originated on this RSM?.

Valid Entries: Y, N

FEATURE GROUP B ONLY

Fields Section 2.6 - Section 2.9 refer to Feature Group B only (see Division 2, Section 1AY for a description of Feature Groups B and D).

2.6 TRANS CDI

Description: The name of this field was changed to FGB CDI in 5E8. This field name applies to 5E7 and earlier. See FGB CDI for usage information.

2.7 FGB CDI

Description: Enter the code index for transitional calls. (This field was called TRANS CDI for 5E7 and earlier).

This code index overrides the value entered on an ICF form so that outgoing calls are routed out of the same RSM cluster that they arrived on.

Valid Entries: 1 - 4095

Data Rules:

Entries in this field must exist on an RAR form.

2.8 TRANS RTI

Description: The name of this field was changed to FGB RTI in 5E8. This field name applies to 5E7 and earlier. See FGB RTI for usage information.

2.9 FGB RTI

Description: Enter the regular route index for transitional calls. (This field was called TRANS RTI for 5E7 and earlier).

This route index overrides the value entered on an ICF form.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

Entries in this field must exist on an RTIDX form.

FEATURE GROUP D ONLY

Fields Section 2.10 - Section 2.20 refer to Feature Group D only (see Division 2, Section 1AY for a description of Feature Groups B and D).

2.10 INTRA LATA

Description: Does this carrier accept IntraLATA (Local Access and Transport Area) calls?

Valid Entries: Y, N

2.11 DOMES CDI

Description: Enter the code index for domestic calls.

This code index overrides the value entered on an ICF form so that outgoing calls are routed out of the same RSM cluster that they arrived on (for umbilical preservation).

Valid Entries: 1 - 4095

Data Rules:

Entries in this field must exist on an RAR form (5301 Record).

2.12 DOMES RTI

Description: Enter the regular route index for domestic calls.

This route index overrides the value entered on the ICF form.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

Entries in this field must exist on an RAR form.

2.13 TRANS CDI

Description: Enter the code index for transitional calls.

This code index overrides the value entered on an ICF form so that outgoing calls are routed out of the same RSM cluster that they arrived on (for umbilical preservation).

Valid Entries: 1 - 4095

Data Rules:

Entries in this field must exist on an RAR form.

2.14 TRANS RTI

Description: Enter the regular route index for transitional calls.

This route index overrides the value entered on an ICF form.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

Entries in this field must exist on an RTIDX form.

2.15 INTL CDI

Description: Enter the code index for international calls.

This code index overrides the value entered on an ICF form so that outgoing calls are routed out of the same RSM cluster that they arrived on (for umbilical preservation).

Valid Entries: 1 - 4095

Data Rules:

Entries in this field must exist on an RAR form.

2.16 INTL RTI

Description: Enter the regular route index for international calls.

This route index overrides the value entered on an ICF form.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

Entries in this field must exist on an RTIDX form.

2.17 SAC CDI

Description: Enter the code index for Service Access Code calls.

This code index overrides the value entered on an ICF form so that outgoing calls are routed out of the same RSM cluster that they arrived on (for umbilical preservation).

Valid Entries: 1 - 4095

Data Rules:

Entries in the SAC CDI field must exist on an RAR form.

2.18 SAC RTI

Description: Enter the regular route index for Service Access Code calls.

This route index overrides the value entered on an ICF form.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

Entries in this field must exist on an RTIDX form.

2.19 NS CDI

Description: Enter the Number Services 800 calls destination index. This is a destination index which results in routing an SSP 800 call to carrier trunks. If this field is not entered, the default value for NS CDI will be the value entered in the NS CDI field on the ICF form (5305 Record).

Software Release: 5E9(1) and later.

Valid Entries: 1 - 4095

Data Rules:

NS CDI must not be entered if "B" is entered in the FEAT GRP field.

If NS CDI is entered, there must be a corresponding RAR form (5301 Record) where CDI matches NS CDI on the RSMCAR form.

2.20 NS RTI

Description: Enter the Number Services 800 calls route index. The route index entered in this field results in routing the SSP 800 call to carrier trunks. If this field is not entered, the default value for NS RTI will be the value entered in the NS RTI field on the ICF form (5305 Record).

Software Release: 5E9(1) and later.

Valid Entries:

For 5E10 and earlier: 1 - 3617 or REGL for

Local Exchange Call

For 5E11 and 5E12: 1 - 4095 or REGL for

Local Exchange Call

For 5E13 and later: Blank, or 1 - 16382 or REGL for Local Exchange Call

Data Rules:

NS CDI must not be entered if "B" is entered in the FEAT GRP field.

If NS RTI is entered and it is not "REGL", then the entry in this field must match a ROUTE INDEX on an RTIDX form (5303 Record).

rsmcar	5ESS Switch	—
(5421)	OFFICE DATA ADMINISTRATION	
	OSPS RSM/CARRIER DATA	
*1. CARRIER ID 0113	FEATURE GROUP D ONLY	
*2. FEAT GRP D	7. INTRA LATA Y	
*3. RSM 090	8. DOMES CDI 1128	
4. OSPS SERVES Y	9. DOMES RTI 0359	
	10. INTL CDI 1823	
FEATURE GROUP B ONLY	11. INTL RTI 0250	
5. FGB CDI _____	12. SAC CDI 1742	
6. FGB RTI _____	13. SAC RTI 0461	
	14. NS CDI _____	
	15. NS RTI _____	

Figure 1 SAMPLE RSMCAR FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4W: 5422 RECORD OSPS CAMA TRANSFER TRUNKS FORM - TCITG

1. GENERAL

The 5422 Record is available with 5E4(2) and later Software Releases.

This record defines data associated with CAMA (Centralized Automatic Message Accounting) transfer trunks. System CAMA calls use outgoing transfer CAMA trunks to get the back number from TSPS (Traffic Services Position System) operators in case of ANIF (Automatic Number Identification Failure) during ONI (Operator Number Identification) calls.

Outgoing CAMA are E & M trunks, and incoming transfer CAMA trunks can be either E & M or loop trunks. The sent/received signals in the incoming transfer CAMA trunks are the received/sent signals in the outgoing transfer CAMA trunk.

When an incoming transfer CAMA call arrives, the OSPS (Operator Services Position System) returns an alerting tone to the calling party if ALERT TONE is specified as "Y" (in the 5422 Record) for the two trunk groups associated with the CAMA office.

For an incoming transfer CAMA call to reach an operator, there must be an entry for transfer CAMA in the ACDCTP form (5412 Record). The ACDCTP form entry must have an ORIGIN CALL of "XFER", a PREFIX of "NULLP", a CALL CLASS of "INT" and a CARRIER of "DC". Based on the desired call queue, a serving team to handle the call is selected.

If the OSPS operator enters a trouble number while handling an incoming transfer CAMA call, the OSPS will transmit a 7-digit NXX-YYYY to the CAMA office, where the NXX is specified in the below OTR OFC CODE field for the associated trunk groups, and YYYY is the associated trunk group member number.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * TGN

Description: Enter a valid trunk group number.

Transfer CAMA trunks from a CAMA office will be in two trunk groups. All the talking trunks from a CAMA office will be in one trunk group, and all the keying trunks from a CAMA office will be in another trunk group. The talking trunk and the associated keying trunk of a transfer CAMA trunk will have the same member number, and must be in the same SM.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Each trunk group number entered here must be defined on the TKGRP form (5202 Record) with a TRKCLS

(trunk class) of either "TCITK" or "TCITT".

2.3 ALERT TONE

Description: Should an alert tone be supplied to the caller upon connection to the operator?

Default: N

Valid Entries: Y, N

2.4 SIGNAL TYPE

Description: Enter the signaling type.

There are two different types of signaling protocols between the CAMA office and the OSPA. If the trunks are analog loop trunks, the SIGNAL TYPE should be specified as 1. If the trunks are analog E & M trunks, the SIGNAL TYPE should be specified as 2. If the trunks are digital trunks, the SIGNAL TYPE can be either 1 or 2 depending on the CAMA office end. If the CAMA office is a 5ESS Switch, the SIGNAL TYPE should be 2.

Default: 2

Valid Entries: 1, 2

Data Rules:

If the SIGNAL TYPE is 1 and the TRKCLS on the TKGRP form is "TCIKT", the IDLE STATE on the TRUNK form (5204 Record) must be set to "OFF", and the SUPV must be "RB". If the SIGNAL TYPE is 1 and the TRKCLS on the TKGRP form is "TCITT", the IDLE STATE on the TRUNK form must be set to "ON" and the SUPV must be "RB". If the SIGNAL TYPE is 2, then SUPV on the TRUNK form must be "EM2" or "EM3"; for 5E7 and later when SIGNAL TYPE is 2, SUPV may also be "EM4" or "EM5".

2.5 OTR OFC CODE

Description: Enter the operator trouble report number.

This entry will be used to identify OTRs (Operator Trouble Reports) associated with this CAMA trunk group.

WARNING: The trouble codes 998 and 999 should only be used for the purpose described in the OSPA Operator Trouble Report form (5410 Record) and should not be used here. The incorrect usage of these trouble codes could cause incorrect billing, asserts, etc.

Valid Entries: 200 - 999

```
tcitg          5ESS OFFICE DATA ADMINISTRATION  _
(5422)         OSPA CAMA TRANSFER TRUNKS FORM
```

```
*1. TGN          0248
  2. ALERT TONE  N
  3. SIGNAL TYPE  2
  4. OTR OFC CODE 487
```

Figure 1 SAMPLE TCITG FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 4X: 5423 RECORD OSPS NXX LIST FOR BILLING NUMBER ON ONI/ANIF CALLS FORM - VALOFFC

1. GENERAL

The 5423 Record is available with 5E4(2) and later Software Releases.

This record defines the valid NXXs (associated with ISP (Intermediate Switching Point) trunks) that may be entered as billing numbers (i.e., back numbers) by the OSPS (Operator Service Position System) operator. The information is needed for both CAMA (Centralized Automatic Message Accounting) ONI (Operator Number Identification) and ANIF (Automatic Number Identification Failure) calls.

All calls from both ONI- and ANI-type local offices require operator assistance in entering the calling (back) number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * TGN

Description: Enter a valid TGN (Trunk Group Number).

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The entry in this field must be defined in the TGN field on a TKGRP form (5202 Record) with an entry in the corresponding TRKCLS field of "FIOPR" for 5E5 and earlier Software Releases, and "FIOPR" or "DIOR" for 5E6 and later Software Releases.

2.3 LIST OF NXXs (200 - 399)

Description: Indicate which NXXs may be used as a billing number. If the NXX may be used as a billing number, enter an "X"; otherwise, leave it blank.

At least one set of five NXXs must have each NXX with an "X" or space in each NXX.

Valid Entries: X

valoffc OFFICE DATA ADMINISTRATION
(5423) OSPS NXX LIST FOR BILLING NUMBER ON ONI/ANIF CALLS

*1. TGN 0028

2. LIST OF NXXs (200-399)			
01234	56789	01234	56789
1. 200	X XX	6. 250	
2. 210		7. 260	
3. 220		8. 270	X
4. 230		9. 280	XXX
5. 240		10. 290	

SCREEN 2 OF 3 5ESS Switch
valoffc OFFICE DATA ADMINISTRATION
(5423) OSPS NXX LIST FOR BILLING NUMBER ON ONI/ANIF CALLS

2. LIST OF NXXs (400-799)			
01234	56789	01234	56789
21. 400		31. 500	
22. 410		32. 510	
23. 420		33. 520	
24. 430	X	34. 530	X
25. 440		35. 540	
26. 450		36. 550	
27. 460	X	37. 560	
28. 470		38. 570	
29. 480	XX	39. 580	X
30. 490		40. 590	

SCREEN 3 OF 3 5ESS Switch
valoffc OFFICE DATA ADMINISTRATION
(5423) OSPS NXX LIST FOR BILLING NUMBER ON ONI/ANIF CALLS

2. LIST OF NXXs (800-999)			
01234	56789	01234	56789
61. 800	XX	66. 850	
62. 810		67. 860	
63. 820		68. 870	
64. 830		69. 880	XXXXXX
65. 840		70. 890	

Figure 1 SAMPLE VALOFFC FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4Y: 5424 RECORD OSPS OPTIONS FORM - OSPSOPT

1. GENERAL

The 5424 Record is available with 5E4(2).

There can only be one OSPSOPT form entered for an office. When an OSPSOPT form is submitted, a CARRIER NAME entry is required on all submitted ICF forms (5305 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.9.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the Office Name on each record.

2.2 * OFFICE ID

Description: Enter the office identification number.

Required Field.

Valid Entries: 1 to 8 characters

Data Rules:

The entry in this field must match the entry in the OFFICE ID field on the OFCOPT form (5509 Record).

2.3 OSPS RAF

Description: Are the Digital Services Unit 2 units used for OSPS RAF (Recorded Announcement Functions)?

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered (or no entry is made) in the OSPS RAF field, then an EQIM form (5700 Record) must be submitted with "LOADED" entered in the CONFIGURATION field for 5E9(1) and earlier. For 5E9(2) and later, see the EQIM form (Division 8, Section 2) for the figure showing the CONFIGURATIONs for Facilities and Applications.

DA OPTIONS

The following fields (Section 2.4 - Section 2.8) define OSPS DA (Directory Assistance) options.

2.4 OSPS DA

Description: Does this office serve directory assistance? Entering "N" in the OSPS DA field will disable the OSPS Directory Assistance feature.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field, at least one OPARM form (5400-1/2 Record) must exist for this office.

For 5E5 and later, if "Y" is entered in this field and OSPS TA is set to "N", then this is a Directory Assistance feature only, and every PSM (Position Switching Module) must be entered on every SMLDIT form (5315 Record) which is associated with a STINFO form (5402 Record). A PSM is an SM which has an LCEN defined on an OPARM form (5400 Record), or an LCEN or DEN defined on an OSPSOP form (5401 Record). The first three digits of the corresponding LCEN or DEN field contain the PSM number. An SMLDIT form is associated with a STINFO form if the LDIT on the SMLDIT form matches the LDIT assigned (via the LOCAL DIT field on a corresponding DAS form) to the DAS value entered in the DIG ANALYSIS SEL field or the SEC DIG ANALYSIS SEL field on the STINFO form.

2.5 DASC VENDOR

Description: Enter the DAS/C (Directory Assistance System/Computer) vendor supplying DA information for OSPS operators.

Default: NONE

Valid Entries:

Valid DASC VENDOR Entries	
Entry	Definition
CCI	Computer Consoles Inc.
IBM	International Business Machines
NONE	No vendor

Data Rules:

If "NONE" is entered in this field, then the DAS/C AVAILABLE field must be "N" on every STINFO form (5402 Record).

If "CCI" is entered as the Vendor, the PSMs must be assigned an ID number in the range 1 - 127 (SM field on the EQIM form). This is a restriction imposed by CCI EIS software.

2.6 RCL LIMIT

Description: Enter the maximum number of operator recalls allowed a subscriber on an OSPS DA call.

Default: 0

Valid Entries: 0 - 255

Data Rules:

If "CCI" is entered in the DASC VENDOR field, then 0 must be entered in this field.

2.7 RCL TIME

Description: Enter the number of 50-millisecond recall timing intervals to be used for OSPS DA calls.

Default: 0

Valid Entries: 0 - 32767

Data Rules:

If "CCI" is entered in the DASC VENDOR field, then 0 must be entered in this field.

2.8 DABRAND

Description: Should a branding phrase be used?

Default: Y

Valid Entries: Y, N

T&A OPTIONS

The following fields (Section 2.9 - Section 2.16) define OSPS TA options.

2.9 OSPS TA

Description: Does this office service the OSPS TA (Toll and Assistance) feature? Entering "N" in the OSPS TA field will disable the OSPS Toll and Assistance feature.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field then:

- at least one OPARM form (5400-1/2 Record) must exist for this office.
- every PSM (Position Switching Module) must be assigned on every SMLDIT form. A PSM is an SM which has an LCEN defined on an OPARM form, or an LCEN or DEN defined on an OSPSOP form. The first three digits of the corresponding LCEN or DEN field contain the PSM number.
- and the INIT THANK YOU, and BRAND PHRASE fields, then an ANNHD form (5531 Record) must be submitted where 16 is entered in the HEADER ID field and "T" is entered in the APPLICATION field.

For 5E8 and later:

- RTRS SM must be entered.
- EMER INTER must be entered.

For 5E9(1) and later:

- Announcement Header OSPSTA 171 should have a disconnect warning time interval entered which is equal to the value in WARN TIME field on this form.
- APOS PROTOCOL must be "OFF", "1STAGE" or "2STAGE".

"Y" must be entered in the OSPS TA field if "Y" is entered in any of the following fields: ACTS

BLV
BRAND PHRASE,
EXCEPT DETRM
LATA MAP
OPER EXT DB

If "N" is entered in the OSPS TA field, then:

- the entry in the OTR ID field of the OTRVLD form (5410 Record) must be a 3-digit number (1-999).
- or if OSPS TA is not entered, APOS PROTOCOL must be "OFF".

2.10 DSU2 Q TIME

Description: Enter the maximum queue time in the DSU2 - RAF (Digital Service Unit 2 - Recorded Announcement Function) DTA (Dial-Through Announcement) before timeout.

Default: 20

Valid Entries: 3 - 20

2.11 RTRS SM

Description: Enter the number of the SM containing the RTRS data links.

Valid Entries: 1 - 192

Data Rules:

If the RTRS SM field is entered, then an OSPSDSL form (5411 Record) must exist with a matching SM (first three digits of LCEN) and a SERVICE CLASS of "RTRS".

For 5E8 and later, if OSPS TA is "Y", then RTRS SM must be entered.

2.12 A1 ZONE

Description: Enter the difference between time zone one and the office time zone found on the OFCOPT form.

Required Field.

Default: 0

Valid Entries: N2, N1, 0, 1, and 2 (N stands for negative)

2.13 A2 ZONE

Description: Enter the difference between time zone two and the office time zone.

Required Field.

Default: 0

Valid Entries: N2, N1, 0, 1, and 2 (N stands for negative)

2.14 EX CONF DN

Description: This field furnishes a telephone number for operator external conference. This number is also used as a pseudo - ANI when an operator conference or route number is set up over an equal access trunk. The DN is in the format of NPA NXX XXXX.

Valid Entries: 10 digit numbers of the format

For 5E9(1) and later: NPANXXXXXX,

where N is 2 - 9, A / P / X are 0 - 9

Data Rules:

If no external conferencing is required, do not enter a DN.

2.15 APOS PROTOCOL

Description: This entry assigns the Automated Position status or protocol. The OSPS Automated Position automates the handling of 0+ dialed calls with collect, third number, and card billing. Two different protocols are provided for delivering calls to the APs: one stage and two stage. In a one stage office, APs provide automation of calling card, collect, and third number billing. The one stage protocol provides APOS handling for all 0+ dialed calls on incoming trunks marked for APOS handling.

In a two stage protocol, the caller is sent to an AP if the party fails to respond (timeout, flash, or dials 0) to the ACCS offering of calling card billing and the incoming trunk is marked for AP handling. In this situation, the AP provides the automation for collect, third number billing, and calling card.

The APOS PROTOCOL field is used by the AP (Automated Position) feature. (See Division 2, Section 4A for more information on the Automated Position Feature.)

Software Release: 5E7 and later

Default: OFF

Valid Entries:

Valid APOS PROTOCOL Entries	
Entry	Definition
OFF or O	Status is off
1STAGE or 1	Provide automation of all 0+ calls
2STAGE or 2	

Data Rules:

If OSPS TA is "Y", APOS PROTOCOL must be "OFF", "1STAGE", or "2STAGE".

APOS PROTOCOL is a Secured Feature and must be purchased before "1STAGE" or "2STAGE" can be entered. The ACT field for SFID 65 on the SFSYS form must be set to "Y" before "1STAGE" or "2STAGE" is entered in this field. If SFID 65 is not activated, then "OFF" must be entered in APOS PROTOCOL.

OFF: If OSPS TA is "N", then APOS PROTOCOL must be "OFF".

2.16 ID COIN LINE

Description: Should the ANI digits be changed when a coin line is transferred out to an IC (Interexchange Carrier) when operator transfers calls to 0 over FGD using the operator key sequence "TRAN-0-SEND"?

The 0- Transfer over Feature Group D Trunks feature allows the LEC operator to use the TRAN-0-SEND OSPS capability to transfer calls to any IC supporting FGD (Feature Group D) signaling. If the operator enters a CIC (Carrier Identification Code) other than 288 and uses TRAN-0-SEND to transfer, the call is routed using FGD signaling to the carrier (i.e., (KP + II + ANI + ST)+(KP + 0 + ST)). The OSPS generates billing access records using structure code 00625 or 00627 and call type code 110 (InterLATA sent paid). This feature allows the LEC to signal special ANI INFO digits on coin line FGD TRAN-0-SEND transfers, thereby allowing the IC to identify the call as coin. This is a secured feature and must be activated on SFSYS form (5710-1 Record), Recent Change view 8.22; the secured feature ID is 102. For more information on 0- Transfer over Feature Group D feature see Division 2, Section 4A102.

If this field is "Y", the ANI INFO digits on coin lines are signaled to the IC as 27 when FGD TRAN-0-SEND is

used.

Software Release: 5E8 and later

Default: N

Valid Entries: Y, N

OFFICE TRAFFIC MIX

The following fields (Section 2.17 - Section 2.18) support Office Traffic Mix. See Division 2, Section 3E for more information on OSPS Office Traffic Mix.

2.17 COIN MECH

Description: The COIN MECH field is used to specify the sum of the percentage of office traffic expected for ACTS (Automatic Coin Toll System) calls and the percentage of office traffic expected for MECH (More Efficient Call Handling) calls.

Software Release: 5E9(2) and later.

Required Field.

Default: 80

Valid Entries: 0 - 100 (%)

Data Rules:

If "Y" is entered in the ACT field and/or MECH FEATURE WORD, and the SM CONFIGURATION is "STANDARD", "LOADED", or "SM2000" on the EQIM form, then this field must not be 0. (See the figure for CONFIGURATIONs for Facilities and Applications on the EQIM form.)

2.18 LS QUANTUM

Description: The LS QUANTUM field is used to specify the sum of the percentage of office traffic expected for Listing Services calls and the percentage of office traffic expected for Easy Reach (QUANTUM) calls.

Software Release: 5E9(2) and later.

Required Field.

Default: 20

Valid Entries: 0 - 100 (%)

Data Rules:

LS QUANTUM on the OSPSOPT form must be entered if this office has an EQIM form where the value of CONFIGURATION supports OSPS, and one or more of the following conditions is true:

- OSPS DA is "Y" on the OSPSOPT form
- OSPS TA is "Y" on the OSPSOPT form
- PSM is "Y" on an OSPSSMINF form
- OSPS PSM is "Y" on an EQIM form

For the CONFIGURATION that supports OSPS see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

Conversely, if the CONFIGURATION value on the EQIM form does not support OSPS or if "Y" is not entered in either OSPS DA or OSPS TA, then LS QUANTUM must be zero on the OSPSOPT form.

ACCS BRANDING TIMERS

The following fields (Section 2.19 - Section 2.21) support the ACCS Thank You Branding Timer feature. For more information on this secured feature (SFID 390) see Division 2, Section 4A390.

2.19 DOM CALLED NUMBER

Description: Enter the duration, in tenths of a second, between the completion of an AT&T Thank You Branding announcement request, and the start of outpulsing a Domestic Format Called Number call.

Software Release: 5E9(1) and later.

Required Field.

Default: 80

Valid Entries: 0 - 80 tenths of a second

Data Rules:

- ▲ **WARNING:** When THANK YOU BRANDING is "Y", DOM and INTL CALLED NUMBERS are not usually set to 0. The normal default value for these fields is 80.

2.20 INTL CALLED NUMBER

Description: Enter the duration, in tenths of a second, between the completion of an AT&T Thank You Branding announcement request, and the start of outpulsing an International Format Called Number call.

Software Release: 5E9(1) and later.

Required Field.

Default: 80

Valid Entries: 0 - 80 tenths of a second

Data Rules:

- ▲ **WARNING:** When THANK YOU BRANDING is "Y", DOM and INTL CALLED NUMBERS are not usually set to 0. The normal default value for these fields is 80.

2.21 THANK YOU BRANDING

Description: Is the Thank You Branding Timer feature active?

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

- ▲ **WARNING:** When THANK YOU BRANDING is "Y", DOM and INTL CALLED NUMBERS, are not usually set to 0. The normal default value for these fields is 80.

If "Y" is entered, a SFSYS form (5713-1 Record) must exist with either SFID 288 ACT (AT&T) or SFID 390 (LECs) ACT set to "Y".

ACTS OPTIONS

The following fields (Section 2.22 - Section 2.29) define the available options for ACTS features.

2.22 ACTS

Description: Is the ACTS (Automatic Coin Toll Service) to be activated?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the ACTS field, then "Y" must be entered in the OSPS TA field. If "N" is entered in the OSPS TA field, then "N" must be entered in this field.

5E9(2) and later:

If either ACTS (Automated Coin Toll Service) is "Y" or FEATURE WORD is "Y" then, COIN MECH must be entered.

If an office has no EQIM form where the value of CONFIGURATION supports OSPS or if both the ACTS (Automated Coin Toll Service) and the FEATURE WORD fields are not set to "Y", then COIN MECH must be 0.

2.23 INI TIMER

Description: Enter the length (in half-seconds) of the coin timeout interval to be used during initial contact with the customer. If a coin is not deposited by the customer within the interval, an initial contact timeout will occur and the customer will be given an announcement.

Default: 11

Valid Entries: 1 - 31

Valid INI TIMER Entries	
Entry	Definition
INI TIMER 1	0.5 seconds
INI TIMER 2	1.0 seconds
INI TIMER 3	1.5 seconds
•	
•	
•	
INI TIMER 31	15.5 seconds

2.24 OVT TIMER

Description: Enter the length (in half-seconds) of the coin timeout interval to be used during interim overtime coin seizures. If a coin is not deposited by the customer within the interval, an overtime seizure timeout will occur and the customer will be given an announcement.

Default: 16

Valid Entries: 1 - 63

Valid OVT TIMER Entries	
Entry	Definition
OVT TIMER 1	0.5 seconds
OVT TIMER 2	1.0 seconds
OVT TIMER 3	1.5 seconds
•	

.	
.	
OVT TIMER 63	31.5 seconds

2.25 INT C TIMER

Description: Enter the length (in half-seconds) of the intercoin timeout interval to be used between coin deposits. If a coin is not deposited by the customer within the interval, an intercoin timeout will occur and the customer will be given an announcement.

Default: 11

Valid Entries: 1 - 31

Valid INT C TIMER Entries	
Entry	Definition
INT C TIMER 1	0.5 seconds
INT C TIMER 2	1.0 seconds
INT C TIMER 3	1.5 seconds
.	
.	
.	
INT C TIMER 31	15.5 seconds

2.26 INI RAT FL

Description: This field defines the routing of a CFR/RTRS (Centralized Flexible Rating/Real Time Rating System) rating failure during the initial contact period of an ACTS call.

Default: ANN

Valid Entries:

Valid INI RAT FL Entries	
Entry	Definition
ANN	Route the call to an announcement.
OPR	Route the call to an operator.

2.27 EOC RAT FL

Description: This field defines the routing of a CFR/RTRS rating failure during the end-of-call period of an ACTS call.

Default: OPR

Valid Entries:

Valid EOC RAT FL Entries	
Entry	Definition
FREE	No charge for the call
OPR	Route the call to an operator

2.28 LRG CHG THR

Description: Enter the threshold (in nickels) at which a coin call will be designated as a large charge call.

Default: 60

Valid Entries: 6 - 100

2.29 C TST CALL

Description: Enter the ACTS coin station test call number. A person at the coin station can initiate the testing of that station by dialing a 0+ call plus the digit string entered in this field.

If the test call number is to be automatically prefixed by an NPA, as indicated on a LDIT form (5300-3 Record), this feature will not function unless routing data is provided to route the call directly to a coin test trunk. The coin test trunk can be the same as used for a FIXED ROUTE TYPE of "ROCOIN", as indicated on a FIXRT form (5301-1 Record).

Default: 9591230

Valid Entries: 0 - 9999999 (telephone number)

MISC FEATURE ACTIVATION

The following fields (Section 2.30 - Section 2.49) define miscellaneous feature options.

2.30 OPER EXT DB

Description: Are OSPS TA operators able to access an external data base?

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the OPER EXT DB field, then "Y" must be entered in the OSPS TA field. If "N" is entered in the OSPS TA field, then "N" must be entered in this field.

2.31 LATA MAP

Description: Does this OSPS or ISP (Intermediate Switching Point) office perform LATA (Local Access and Transport Area) mapping to determine whether a call is interLATA or intraLATA?

This field should be set to "N" when the office contains multiple digit trees (one per LATA served by the OSPS). This is the case for an OSPS integrated with an AT (Access Tandem) switch, or for one that resides in the local switching network.

A value of "Y" will be used when the office does not contain multiple digit trees and must perform LATA mapping to determine the type of carrier interconnect call. This is the case for an OSPS integrated with a toll switch that resides in the toll switching network, or when the office has trunks which serve more than one LATA.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the LATA MAP field, then "Y" must be entered in the OSPS TA field.

2.32 EXCEPT DETRM

Description: Can this OSPS or ISP office perform exception area determination for interLATA calls?

Exception areas exist where the originating and terminating office codes (NPA-NXX) reside in different LATAs, but are owned by the same telephone company and are allowed to connect calls between these offices with their own LEC. Under normal situations, only IC (Interexchange Carriers) are allowed to make these interLATA connections. These are areas in which LECs are allowed to carry interLATA calls. This field should be set to "N" when the office does not have exception areas within its serving area. A value of "Y" will be used when the office does have exception areas within its serving area.

Exception areas are defined on an EXMAP form (5440 Record) and assigned to NPA-NXX combinations on an NPAMAP form (5414 Record).

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the EXCEPT DETRM field, then "Y" must be entered in the OSPS TA field.

2.33 ITNA

Description: Is ITNA (Improved Third Number Acceptance) feature processing activated?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.34 ITNA CHECKS

Description: Are Special Area Checks activated for ITNA (Improved Third Number Acceptance) treatment?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.35 INTRAFLOW ALW

Description: Is the the OSPS Intraflow feature activated?

This field turns OSPS Intraflow on or off for this office. Intraflow permits a Call Type to designate a principal Serving Team and up to 8 Supporting Teams, each with an associated delay outflow threshold.

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

Intraflow must be individually activated or deactivated for each Call Type and Serving Team via the INTRAFLOW ALW field on the OPSPSCT forms (5404 Record) and the STINFO forms (5402 Record), respectively.

2.36 FCA ON

Description: Are International Calls handled by FCA (Fully Coded Addressing)?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered here, then, on the OFCOPT form (5509 Record), "Y" must be entered in the OFFICE TYPE field and 288 0288 must be entered in the OFFICE CARRIER ID field.

2.37 AUTODACT MON

Description: Should the BST (Basic Services Terminal) or VDT (Video Display Terminal) monitoring port be automatically deactivated upon manager logoff?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

2.38 AUTO DIOR

Description: Are Automated Initial DIOR calls allowed?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

2.39 MQ900

Description: Does this OSPS handle 900 services? Also, for Recent Change only, this field allows the OSPS handled 900 feature to be tested before it is activated in an office. (See Division 2, Section 3I for more information on OSPS 900 Services.)

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries:

Valid MQ900 Entries	
Entry	Definition
N	OSPS 900 processing is off.
Y	OSPS 900 processing is on.
T	This value is for Recent Change Only. Only OSPS 900 calls arriving on a designated test trunk receive treatment.

2.40 DIFF CARD ON

Description: Is the OSPS DIFF (Differentiation Of Card Service Charges) feature activated? (See Division 2, Section 3I for more information on the Differentiation of Card Service Charges feature.)

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When DIFF CARD ON is "Y", CCC ON must be "Y".

2.41 TCS PUB IND

Description: Should the "Public ??" indicator be displayed for collect calls requiring manual outpulsing for terminating code screening? (For more information on the TCS (Terminating Code Screening) Release 3 feature, see Division 2 Section 3I.)

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

2.42 CDBS SEQ

Description: Is CDBS (Customer Defined Bill Segmentation) for sequence calls activated? (For more information on CDBS, see Division 2, Section 3I.)

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CDBS SEQ is "Y", then either CAS R3 ON must be "Y", or at least one of the following fields must NOT be "A":

- L CC ATT INTER
- L CC LEC INTER
- L CC ATT INTRA
- L CC LEC INTRA

2.43 BELLCORE ANI

Description: Does this OSPS conform to BELLCORE ANI signaling standards? "Y" indicates that a 0 or 1 cannot be accepted as the first number in a 7-digit ANI.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

2.44 OSPS INPA

Description: Is the OSPS Interchangeable Numbering Plan Area feature active? The Interchangeable Numbering Plan feature expands the range of the middle digit of the NPA from 0 - 1, to 0 - 9. This field should be "N" if the RAF has not been upgraded to support the announcements needed for this feature. For more information on the INPA feature see Division 2, Section 3E.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "Y" if ALLOW 7 DIGITS is "N" on the OPRTK form (5417 Record).

2.45 ALLOW 809 COMPL

Description: Is area code 809 eligible for CICADA service call completion?" The CICADA (Completion of InterLATA Calls Accessing Directory Assistance) feature provides the OSPS with the ability to offer call completion on calls to LEC DA (Directory Assistance) offices through AT&T owned OSPSs.

Callers dialing an 800 DA and who also receive ACCS (Automated Calling Card Services) treatment will hear a CICADA offer prompt after the "thank you". This announcement prompts the caller to enter 1 to accept the CICADA service and 2 to decline the CICADA service. If this field is set to "N", then the offer announcement is not provided.

For operator handled calls: the operator is given the "LSCC Eligible" indicator on 809 DA calls allowing the operator to offer the CICADA feature, if this field is set to "Y". No LSCC Eligible indicator displays if this field is set to "N".

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.46 INTRA TO INTER

Description: Is the Intraflow to Interflow feature active?

Intraflow to Interflow Call Handling with Interflow Call Queues is a secured feature that provides the ability for calls to be intraflowed to interflow call queues and for interflowed calls to be queued on the sending switch. For more information on the Intraflow to Interflow Call Handling see Division 2, Section 4A113.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.47 TOLL FREE 800

Description: Should the DIOR (Direct International Originations) Toll-Free 800 feature be activated? This feature allows 800 Service providers to specify how charging for the International Portion of the call will be handled from different countries. See Division 2, Section 3K, *Direct International Originations for more information on this feature.*

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.48 DIOR CPS R2

Description: Should the DIOR Country Pair Screening Release 2 feature be activated? See Division 2, Section 3K, *Direct International Originations* for more information on this feature.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.49 BRAND ON ROUTE

Description: Should carrier specific branding be done before routing? The BRAND ON ROUTE field supports the Carrier Specific Branding on Seizure for ACCS and ACTS feature. For more information on this secured feature, see Division 2, Section 4A378.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.50 ICS

Description: Is the ICS (Inmate Calling Services) feature activated? For more information on this feature, see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Inmate Calling Service is a secured feature that must be purchased by the office. Before this field can be set to "Y", the ACT field for SFID 385 or SFID 288 must be set to "Y" on the SFSYS form 5713-1 Record .

EXTERNAL DATA BASE QUERY OPTIONS

The following fields (Section 2.51 - Section 2.68) define external database query options.

RATE

The following fields (Section 2.51 - Section 2.54) define rating timing and query options.

2.51 TIME

Description: Enter the longest time (in seconds) that call processing will wait for a rating reply from the database.

- **WARNING:** A timeout will result in a rating failure. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value. If this time is increased beyond the default value, call load will be adversely affected.

Default: 4 (seconds)

Valid Entries: 1 - 8 (seconds)

2.52 MIN QRY

Description: Enter the minimum rate query attempts required in 15 minutes before alarm calculations are done.

Default: 40

Valid Entries: 1 - 64

2.53 ALARM THR

Description: Enter the rating alarm threshold for successful query percentage. An alarm is activated if the actual percentage of queries falls below this threshold.

Default: 95(%)

Valid Entries: 0 - 100(%)

2.54 OVLD TIME

Description: Enter the rating database overload timing for cutback controls. This indicates how long rating query cutback controls will be in affect for any non-zero overload level received from the rating database.

Default: 1 (minute)

Valid Entries: 0 - 8 (minutes)

NCD

The following fields (Section 2.55 - Section 2.58) define timing and query options for NCD (Network Call Denial).

2.55 TIME

Description: Enter the NCD timeout parameter. This is the longest time (in minutes) that call processing will wait for a reply from the database.

- **WARNING:** A timeout will result in the operator following local practices to obtain verification. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default values. If this time is increased beyond the default value, call load will be adversely affected.

Default: 2 (seconds)

Valid Entries: 1 - 8 (seconds)

2.56 MIN QRY

Description: Enter the minimum NCD query attempts required in 15 minutes before alarm calculations are done.

Default: 40

Valid Entries: 1 - 64

2.57 ALARM THR

Description: Enter the NCD alarm threshold for successful query percentage. An alarm is activated when the actual percentage falls below this value.

Default: 95(%)

Valid Entries: 0 - 100(%)

2.58 STAT

Description: Should NCD (Network Call Denial) queries be sent?

Default: N

Valid Entries: Y, N

CC

The following fields (Section 2.59 - Section 2.64) define CC (Calling Card) timing and query options.

2.59 CC ACC BNS SAMPLE SQD

Description: Enter the sampling rate for supplemental query data messages.

Default: 20

Valid Entries: 0 - 127

2.60 TIME

Description: Enter the calling card timeout parameter (in seconds). This is the longest time that call processing will wait for a calling card reply from the database.

- **WARNING:** A timeout will result in the operator following local practices to obtain verification. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value. If this time is increased beyond the default value, call load will be adversely affected.

Default: 2 (seconds)

Valid Entries: 1 - 8 (seconds)

2.61 MIN QRY

Description: Enter the minimum calling card query attempts required in 15 minutes before calling card software alarm calculations are done.

Default: 40

Valid Entries: 1 - 64

2.62 ALARM THR

Description: Enter the calling card alarm threshold for successful query percentage. An alarm is activated when the actual percentage falls below this threshold.

Default: 95(%)

Valid Entries: 0 -100(%)

2.63 OVLD TIME

Description: Enter the calling card database overload timing for cutback controls. This indicates how long calling card query cutback controls will be in affect for any non-zero overload level received from the database.

Default: 1 (minute)

Valid Entries: 0 - 8 (minutes)

2.64 BILL BLOCK

Description: Will a call be blocked for indeterminate query responses? An entry of "N" will allow the call to complete.

Default: N

Valid Entries: Y, N

BNS

The following fields (Section 2.65 - Section 2.68) define timing and query options for BNS (Billed Number Screening).

2.65 TIME

Description: Enter the BNS timeout parameter (in seconds). This is the longest interval that call processing will wait for a BNS reply from the database.

- **WARNING:** A timeout will result in the operator following local practices to obtain verification. Since the level of query traffic that can be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value. If this time is increased beyond the default value, call load will be adversely affected.

Default: 2 (seconds)

Valid Entries: 1 - 8 (seconds)

2.66 MIN QRY

Description: Enter the minimum BNS query attempts required in 15 minutes before alarm calculations are done.

Default: 40

Valid Entries: 1 - 64

2.67 ALARM THR

Description: Enter the BNS alarm threshold for successful query percentage. An alarm is activated when the actual percentage falls below this threshold.

Default: 95(%)

Valid Entries: 0 - 100(%)

2.68 OVLD TIME

Description: Enter the BNS overload timing for cutback controls. This indicates the BNS database overload timing for cutback controls, and specifies how long BNS query cutback controls will be in affect for any non-zero overload level received from the database.

Default: 1 (minutes)

Valid Entries: 0 - 8 (minutes)

INTL BILL NBR SCREENING

The following field supports the IBNS (International Billed Number Screen Release 2) feature. For more information on this feature see Division 2, Section 4A386.

2.69 IBNS CTI

Description: Enter the treatment to be provided for IBNS "Deny Collect" calls.

Software Release: 5E9(1) and later.

Required Field.

Default: OPR

Valid Entries:

Valid IBNS CTI Entries	
Entry	Definition
ANN	Tone Announcement
OPER	Operator

HOTEL/MOTEL OPTIONS

The following fields (Section 2.70 - Section 2.77) define hotel/motel billing options.

2.70 ACQS SM

Description: Enter the number of the SM containing the HOBIS/ (Hotel Billing Information System) HOBIC (Hotel Billing Information Center) and Auto Quote data links. This entry must be an ISDN SM.

Valid Entries: 1 - 192

Data Rules:

This field must be left blank if the HOBIS/C field is blank.

If this field is entered, an OSPSDSL form must exist with a matching SM (first three digits of LCEN) and a Service Class of "HOBICR", "HOBICV", "HOBIS", or "AQDSL".

2.71 HOBIS/C

Description: This field indicates whether the office is connected to a HOBIC (Hotel Billing Information Center) or a HOBIS (Hotel Billing Information System).

Valid Entries: HOBIC or HOBIS

Data Rules:

For 5E6 and later, if "HOBIS" is entered, then the only type of OSPS Hotel Billing Information entry that can be made in the SERVICE CLASS field on the OSPSDSL form is "HOBIS". If "HOBIC" is entered on this form, then only "HOBICV" or "HOBICR" can be entered in the SERVICE CLASS on the OSPSDSL form.

2.72 ACQS TAX

Description: Should applicable taxes be included in the charge computed for ACQS (Automatic Charge Quotation Service) calls?

Default: Y

Valid Entries: Y, N

2.73 DUP HOBIC

Description: Should the hotel billing information be sent over a duplicate set of printer lines to the HOBIC?

Default: N

Valid Entries: Y, N

2.74 HOBIS/C TIME

Description: Enter the number of minutes allowed for HOBIS/C messages before a credit record is made and attempts to send messages are not allowed.

Default: 10 (minutes)

Valid Entries: 1 - 10 (minutes)

2.75 HOBIS/C ALARM

Description: Enter the software alarm threshold for the number of HOBIS/C messages that will be buffered before an alarm is given.

Default: 100

Valid Entries: 1 - 100

2.76 ACQS FAIL

Description: After an ACQS rating failure, should the call be free? If "N" is entered, billing data will be sent to the HOBIS/C.

Default: N

Valid Entries: Y, N

2.77 Q CHK TIME

Description: Enter the number of minutes between checks of the ACQS message queue once a warning condition has been reached.

Default: 3 (minutes)

Valid Entries: 1 - 60 (minutes)

ACCS OPTIONS

The following fields (Section 2.78 - Section 2.83) specify ACCS (Automatic Calling Card Service) options.

2.78 ACCS 1

Description: Enter the ACCS initial prompt treatment for coin and hotel/motel services.

Default: TANN

Valid Entries:

Valid ACCS 1 Entries	
Entry	Definition
OP	OSPS position
TANN	Tone and Announcement
TONE	Tone treatment

Date Rules:

The HEADER ID field on an ANNHD form assigns the announcement for "TANN".

Either "TANN" or "TONE" (tone treatment) may be overridden by individual telephone number entries on an ACCST form (5428 Record).

2.79 ACCS 2

Description: Enter the ACCS initial prompt treatment for non-coin and non-hotel/motel (Service Class 2) services.

Default: TONE

Valid Entries:

Valid ACCS 2 Entries	
Entry	Definition
OP	OSPS position.
TANN	Tone and announcement.
TONE	Tone.

Data Rules:

The HEADER ID field on an ANNHD form assigns the "TANN" announcement.

Either "TANN" or "TONE" treatment may be overridden by individual telephone number entries on an ACCST form (5428 Record).

2.80 BRAND PHRASE

Description: Is a branding phrase is to be used to indicate the carrier for a call?

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the BRAND PHRASE field, then "Y" must be entered in the OSPS TA field. If "N" is entered in the OSPS TA field, then "N" must be entered in this field.

If "Y" is entered in the OSPS TA, INIT THANK YOU, and BRAND PHRASE fields, then an ANNHD form must be submitted where 16 is entered in the HEADER ID field and "T" is entered in the APPLICATION field.

"Y" must be entered in the OSPS TA field if "Y" is entered in any of the following fields:

- ACTS
- BLV
- BRAND PHRASE
- EXCEPT DETRM
- LATA MAP
- OPER EXT DB

2.81 INIT THANK YOU

Description: Should an ACCS "thank you" announcement for initial credit card validation be given?

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the OSPS TA field and "Y" is entered in this field, then "5" must be entered in the HEADER ID field of an ANNHD form where "T" has been entered in the APPLICATION field.

If "Y" is entered in the OSPS TA, INIT THANK YOU and BRAND PHRASE fields, then an ANNHD form must be submitted where 16 is entered in the HEADER ID field and "T" is entered in the APPLICATION field.

2.82 SEQ THANK YOU

Description: Should an ACCS "thank you" announcement for sequential credit card validation be given?

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the OSPS TA field and "Y" is entered in this field, then 5 must be entered in the HEADER ID field of an ANNHD form where "T" has been entered in the APPLICATION field.

2.83 OPER SEQUENCE

Description: Is automated sequence dialing allowed following operator release?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If OPER SEQUENCE is "Y", OSPS TA must be "Y".

The Automated Sequence Dialing Following an Operator Release is a secured feature. This field can be activated only after Secured Feature ID 66 is set to "S" or "Y" on the SFSYS form.

AMA OPTIONS

The following fields (Section 2.84 - Section 2.90) specify AMA (Automatic Message Accounting) options.

2.84 BCCSC REC

Description: Should an AMA record be made when a call is blocked due to unsuccessful credit card validation?

Default: N

Valid Entries: Y, N

2.85 ACCSQ REC

Description: Should an AMA record be made for every ACCS validation failure?

Default: N

Valid Entries: Y, N

2.86 ROUTE REC

Description: Should an AMA record be made when an inward call is made by an OSPS operator via the ROUTE# key? The number entered in the ROUTE or INTL Route field shall be recorded in the special service call AMA record. An inward call refers to the call from the OSPS to an external operator system.

Default: N

Valid Entries: Y, N

2.87 LSTG SVC REC

Description: Should an AMA record be written for a Listing Services call? An AMA record is only written when a valid ANI signal is received from the originating office. The record is written after the service is provided, so if multiple listings are accessed, multiple records are written.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.88 SAMPLE N

Description: Enter the sampling rate for AMA sampling. If the value entered indicates N, then the sampling rate equals 1/N. The default value 0 turns off sampling.

Default: 0

Valid Entries: 0 - 99

2.89 INW C REC

Description: Enter the inward call recording parameter. When this option is defined, a special service call AMA record is made for the inward call handled either automatically or by an OSPS operator. An inward call is a call to the OSPS from an external operator system.

Valid Entries: 0 - 999

2.90 WIRELESS REC

Description: Should wireless module be appended on AMA record for wireless calls? The AMA Recording of Calls from Wireless Service Providers feature allows the TCA to administer a new attribute in trunk group data, that identifies the trunk group as coming from a WSP (Wireless Service Provider). All calls that arrive at the OSPS from this trunk group, regardless of the forward number, will be treated as being WSP calls. To activate this feature, the Secured FEATURE ID for 104 must be active on the SFSYS form, view 8.22. See Division 2, Section 4A104 for more information on the secured feature AMA Recording of Calls from Wireless Service Providers and Division 2 Section 4A79 for more information on the secured feature ACCS for 0+800 Calls from Wireless Service Providers.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If SFID 104 on the SFSYS form is not entered, WIRELESS REC must be "N".

NAI

The following fields (Section 2.91 - Section 2.99) support the NAI (Network Access Interrupt) feature. For more information on the NAI feature, see Division 2, Section 4A380.

2.91 TRANS TYPE

Description: Enter the index used by the 2STPE (Number 2 Signal Transfer Point Emulator) to look up a destination point code for queries destined for the 2LAC/NCP (Number 2 Line Application for Consumers / Network Control Point) for CCS7 TCAP (Common Channel Signaling 7 Transaction Capabilities Application Protocol) functions.

Software Release: 5E9(1) and later.

Valid Entries: 0 - 255.

2.92 INDET RPLY

Description: Should deny treatment be given when the 2LAC/NAI CCS7 TCAP query reply is indeterminate?

Software Release: 5E9(1) and later.

Required Field.

Default: A

Valid Entries:

Valid INDET RPLY Entries	
Entry	Definition
A	ALLOW treatment is to be given, and the call will successfully complete through normal handling.
D	DENY treatment is to be given, and the call will not be completed.

2.93 NAI MIN QRY

Description: Enter the number of 2LAC/NAI CCS7 TCAP query attempts required in a 15 minute period before software alarm calculations will be performed.

Software Release: 5E9(1) and later.

Required Field.

Default: 40

Valid Entries: 1 - 64

2.94 SUCC QRY

Description: Enter the percentage of successful 2LAC/NAI CCS7 TCAP queries, below which percentage an alarm will be activated, e.g. if the percentage of successful queries falls below the amount entered in this field, an alarm will be activated.

Software Release: 5E9(1) and later.

Required Field.

Default: 95

Valid Entries: 0 - 100 (%)

2.95 NAI CARRID

Description: Enter the carrier for NAI traffic.

Software Release: 5E9(1) and later.

Valid Entries: 0 - 9999

2.96 NAI TIMEOUT

Description: Enter the time intervals call processing will wait for an NAI reply to a 2LAC/NAI CCS7 TCAP query. The intervals are in tenths of a second, e.g. 6 intervals would be 1 second.

Software Release: 5E9(1) and later.

Required Field.

Default: 20 (tenths of a second)

Enter 5 - 200 (1/10 of a second)

2.97 NAI

Description: Is the NAI (Network Access Interrupt) feature activated for this office?

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then

- TRANS TYPE must be entered.
- NAI CARRID must be entered.

If "N" is entered, then

CARD NAI must be N.

BNS NAI must be N.

2.98 CARD NAI

Description: Is the NAI (Network Access Interrupt) card parameter activated? This parameter indicates whether 2LAC/NAI CCS7 TCAP signaling will be used instead of ANSI signaling for the 14-digit LEC card query.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.99 BNS NAI

Description: Should the 2LAC/NAI CCS7 TCAP signaling be used instead of ANSI signaling for BNS (Billed Number Screening) queries? This parameter indicates the type of signaling query that is to be sent. If the parameter is set to "Y", a 2LAC/NAI CCS7 TCAP is sent; otherwise an ANSI query is sent, depending on current processing.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

CAMA OPTIONS

The following fields (Section 2.100 - Section 2.101) define define CAMA (Centralized Automatic Message Accounting) options.

2.100 ANIF TRBL RPT

Description: Should a trouble report be automatically generated each time a back number is entered due to an ANIF (Automatic Number Identification Failure)?

Default: N

Valid Entries: Y, N

2.101 TRANS OFC

Description: Should a 1+ system CAMA ONI (Operator Number Identification) ANIF calls be routed to a CAMA transfer office? If the call is not routed to the CAMA transfer office it will be handled by the OSPS operator.

Default: N

Valid Entries: Y, N

Data Rules:

If this office is in an initial or growth state, the OFC TYP field will be set to "Y".

COIN TROUBLE

The following fields (Section 2.102 - Section 2.103) define trouble numbers for coin trouble.

2.102 FRAUD NUM

Description: Enter the coin fraud trouble number.

Valid Entries: 0 - 999

2.103 CREDIT NUM

Description: Enter the coin credit trouble number.

Valid Entries: 0 - 999

BLV OPTIONS

The following fields (Section 2.105 - Section 2.106) define BLV (Busy Line Verification) options.

2.104 BLV

Description: Is BLV feature activated for the OSPS office?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in BLV, then "Y" must be entered in OSPS TA. Conversely, if "N" is entered in OSPS TA, the BLV must be "N".

2.105 BLV DAS

Description: Enter the BLV DAS (Digit Analysis Selector). An entry of 0 denotes "no data".

Software Release: 5E4(2) and later

Default: 0

Valid Entries:

For 5E14 and earlier: 0 - 99

For 5E15 and later: 0 - 254

2.106 SCREEN IDX

Description: Enter the Screening Index for BLV.

Valid Entries: 1 - 4095

CARRIER ID

The following fields (Section 2.107 - Section 2.111) define carrier identification numbers.

2.107 ROUTE

Description: Enter the route field carrier identification number. The route carrier is the default interLATA carrier used with the "ROUTE" key.

Valid Entries: 0 - 9999

Data Rules:

For 5E9(1) and later, if ROUTE is entered, then it must match a CARRIER ID on an ICF form which has "D" entered in the FEAT GRP field on that form.

2.108 CONF

Description: Enter the conference field carrier identification number (default interLATA carrier for an operator or third number conference).

Valid Entries: 0 - 9999

Data Rules:

For 5E9(1) and later, the entry in this field must match a CARRIER ID entry on an ICF form which has "D" entered in the FEAT GRP field on that form.

2.109 ICOS

Description: Enter the carrier identification number for blind transfer to an external IC operator system.

Valid Entries: 0 - 9999 or LEC

Data Rules:

For 5E9(1) and later, if 0 - 9999 is entered in this field, then the entry must match a CARRIER ID on an ICF form which has "D" entered in the FEAT GRP field on that form.

2.110 LSTG SVC

Description: LSTG SVC specifies the default carrier for calls that are outpulsed from Listing Services operator position and require an IC carrier on Listing Service non-ISP trunks.

Software Release: 5E6 and later

Required Field.

Valid Entries: 0 - 9999

Data Rules:

The entry in this field must match an entry in the CARRIER ID field on the ICF form.

2.111 EMER INTER

Description: This field indicates the default carrier for emergency interLATA calls from a trunk group which is defined as intraLATA.

Software Release: 5E5 and later

Required Field.

Valid Entries: 0 - 9999

Data Rules:

For 5E6 and later, the value entered in this field must match a CARRIER ID on an ICF form. In addition, for 5E8 and later, "D" must be entered in the FEAT GRP field on the ICF form.

For 5E8 and later, if OSPS TA is "Y", then this field must be entered.

ACCS FOR CCC

The following fields (Section 2.112 - Section 2.115) support the ACCS for CCC (Automated Calling Screen Services for Commercial Credit Cards) feature. This is a secured feature, with SFID 388. For more information on this feature see Division 2, Section 4A388.

2.112 ACCS FOR CCC

Description: Is the ACCS for CCC feature active?

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.113 DLY ANN INFTV

Description: Enter the maximum time (in tenths of a second) that a CCC (Commercial Credit Card) card validation query may take without the caller getting a delay announcement. The time represented by this field is compared to the time represented by the QUERY TIMEOUT field on the TCCID form (5454 Record) which is the OSPS TCR (TELEPHONE CREDIT CARD) ATTRIBUTES form. If this field is less, the CCC customer is given a delay announcement.

Software Release: 5E9(2) and later.

Required Field.

Default: 60

Valid Entries: 0 - 160 (tenths of a second)

2.114 VIRT CRD TXT

Description: Enter 6 alphanumeric characters of textual information displayed at the operator position for VC (Virtual Card) calls. A VC is a calling card issued by AT&T which can be used to charge calls in the AT&T Network. A VC is based on a customer selected card number which could represent a memorable personal combination of alphanumerics and digits. These unique combinations permit the issuing of "Vanity Cards".

Examples of a VC number issued to a customer could be: "JOHNSMITH-1234" or "NEIMANMARCUS".

Software Release: 5E9(2) and later.

Valid Entries: 6 characters

2.115 DFLT CRD TXT

Description: Enter 6 characters of textual information displayed at the operator position for card calls which do not use virtual cards nor cards defined on the TCCATTR form (5473 Record).

Software Release: 5E9(2) and later.

Valid Entries: 6 characters

INTERFLOW

The following fields (Section 2.116 - Section 2.119) define OSPS Interflow options.

2.116 Q DRN TIME

Description: Enter the Interflow Call Queue Drain time. This entry specifies the number of minutes allowed for draining the call queues of Operator Serving Teams undergoing scheduled Interflow activation. See OSPS feature section in Division 2, Section 3 for additional information.

Software Release: 5E5 and later

Required Field.

Default: 0 (minutes)

Valid Entries: 0 - 3 (minutes)

2.117 OSPS ID

Description: Enter the Interflow OSPS Office ID number. This is a number is unique among the switches in this interflowing switch complex. The default value of 0 should be used if this office is not interflowing calls.

This same entry will be used by switches receiving interflowed calls from this switch. The ACDCTP form (5412-A/F Records) of the receiving switch will use this value.

Software Release: 5E5 and later

Required Field.

Default: 0

Valid Entries: 0 - 9999

2.118 IFNAME

Description: Enter the Interflow OSPS Office Identifier Name. The IFNAME field indicates the name of an OSPS office used for Interflow and this name appears as part of the display on the operators' console of the receiving interflowed office.

Software Release: 5E5 and later

Default: 0

Valid Entries: 1 - 4 characters

Data Rules:

If entries are made on an INFLTADP form (5452 Record) and on INFLDEST forms (5448 Record), then the value entered here must be other than 0.

2.119 IFTRANSID

Description: A three-digit OSPS translation identifier is automatically entered in this field. The first two digits represent the Software Release and the third digit indicates the level within the Software Release. For example, the first issue of 5E8 would have an entry of 081.

The IFTRANSID field defines the translation identifier for this OSPS. The translation identifier is used to translate Interflow messages and affect decision points in the processing of a call when differing generics or point issues of software are used in an Interflowed complex.

Software Release: 5E5 and later
Default:

For 5E9(1) only: 91
For 5E10: 101
For 5E11: 111

Valid Entries:
This field is automatically populated.

AUTO RECONFIGURATION

The following fields (Section 2.120 - Section 2.121) define Automatic Reconfiguration Options.

2.120 AUTO RECONFIG

Description: Is the OSPS call queue and the operator automatic reconfiguration active? If this field is set to "Y", then call queue and operator automatic reconfiguration pattern data is processed by the auto-reconfiguration terminal process, which is created every 15 minutes.

For 5E8 and later, this field is set to "N". This field is always set to "N" by ODA. Once the office has retrofitted onto the new Software Release, Recent Change can then be used to change this field to "Y". This field can also be automatically changed during the retrofit as follows:

1. During the BEGIN state, the retrofit software records the state of the AUTO RECONFIG field.
2. ODA ODD is expected to set this to "N".
3. When it is safe to turn this feature on, the retrofit process executes code to restore it to "Y", if it was originally "Y". This ensures that a "PAT ID" that was expected to fire, will only fire during a safe place in the retrofit process.

Software Release: 5E7 and later
Default: N
Valid Entries: N

2.121 SCHED IFLOW

Description: Is scheduled interflow activation and deactivation active? If this field is set to "Y", the scheduled

interflow activation and deactivation pattern data is processed by the auto-reconfiguration terminal process, which is created every 15 minutes.

For 5E8 and later, this field is set to "N". This field is always set to "N" by ODA. Once the office has retrofitted onto the new Software Release, Recent Change can then be used to change this field to "Y". This field can also be automatically changed during the retrofit as follows:

1. During the BEGIN state, the retrofit software records the state of the SCHED IFLOW field.
2. ODA ODD is expected to set this to "N".
3. When it is safe to turn this feature on, the retrofit process executes code to restore it to "Y", if it was originally "Y". This ensures that a "PAT ID" that was expected to fire, will only fire during a safe place in the retrofit process.

Software Release: 5E7 and later

Default: N

Valid Entries: N

2.122 ICS EIS TIME

Description: Enter the length of time, in 10 second intervals, OSPS shall wait to receive a message from the EIS (External Information System). The value specified in this field is used when the OSPS recognizes that the EIS has gone off-hook on the ARU (Audio Response Unit) port. Prior to expiration of this timer, OSPS expects the EIS to request OSPS to perform forward number and billing restriction checks or to terminate the call. This field supports the Inmate Calling Services secured feature (SFID 385). For more information on this feature, see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Required Field.

Default: 60

Valid Entries: 10 - 160 (10 second intervals)

2.123 ICS BILL TIME

Description: Enter the length of time, in 15 second intervals, OSPS shall wait to receive a message from the EIS (External Information System). The value specified in this field is used when the OSPS has determined that billing is acceptable for the associated call and that, from an OSPS perspective, the call can be allowed to complete. Prior to expiration of this timer, OSPS expects the EIS to request OSPS to begin billable timing or to terminate the call. This field supports the Inmate Calling Services secured feature (SFID 385). For more information on this feature, see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Required Field.

Default: 240

Valid Entries: 15 - 480 (15 second intervals)

LINE INFORMATION DATA BASE QUERY OPTIONS

The following fields (Section 2.124 - Section 2.140) define LIDB (Line Information Data Base) options.

2.124 CC AND BNS TIME

Description: Enter the longest time that LIDB call processing will wait for a CC or BNS reply from the database.

- **WARNING:** A timeout will result in the operator following local practices be handled decreases as the holding time increases, extreme care should be used when increasing the value above the default value. If this time is increased beyond the default value, call load will be adversely affected.

Software Release: 5E5 and later

Required Field.

Default: 2 (seconds)

Valid Entries: 1 - 8 (seconds)

L CC

The following fields define LIDB CC (Calling Card) options.

2.125 MIN QUERY

Description: Enter the minimum query attempts required in 15 minutes before LIDB CC alarm calculations will be performed.

Software Release: 5E5 and later

Required Field.

Default: 40

Valid Entries: 1 - 64

2.126 ALARM THR

Description: Enter the value for the LIDB CC software alarm threshold, which is a value for successful query percentage. If the percentage falls below this threshold, an alarm is activated.

Software Release: 5E5 and later

Required Field.

Default: 95(%)

Valid Entries: 0 - 100(%)

2.127 ATT INTER

Description: Enter one of the four following choices for an AT&T-carried interLATA call query.

Software Release: 5E5 and later

Required Field.

Default: A

Valid Entries:

Valid ATT INTER Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.128 LEC INTER

Description: Enter one of the four following choices for a LEC-carried interLATA query.

Software Release: 5E5 and later

Default: A

Valid Entries:

Valid LEC INTER Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.129 ATT INTRA

Description: Enter one of the four following choices for an AT&T-carried intraLATA query.

Software Release: 5E5 and later

Required Field.

Default: A

Valid Entries:

Valid ATT INTRA Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.130 LEC INTRA

Description: Enter one of the four following choices for a LEC-carried intraLATA query.

Software Release: 5E5 and later

Required Field.

Default: A

Valid Entries:

Valid LEC INTRA Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.

C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.131 DEFAULT

Description: Is the Calling Card validation default database a LEC? Enter "N" if default database is an alternate destination or BVA.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When "C" is entered in any of the ATT/LEC INTER/INTRA fields, the LIDBLNQ form is accessed. If the LIDBLNQ form does not reveal the database, the L CC DEFAULT field is accessed. The entries in the L BNS DEFAULT and L CC DEFAULT fields must match.

2.132 CALLED NBR

Description: Is the called number in LIDB query protocol allowed on this switch? See Division 2, Section 4C3 for more information on the Inclusion Of The Called Number In The LIDB Protocol feature.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

L BNS

Description: The following fields define BNS (Billed Number Screening) LIDB options.

2.133 MIN QUERY

Description: Enter the value which indicates the minimum query attempts which are required in 15 minutes before LIDB BNS software alarm calculations will be performed.

Software Release: 5E5 and later

Required Field.

Default: 40

Valid Entries: 1 - 64

2.134 ALARM THR

Description: Enter the value for LIDB BNS software alarm threshold, which is a value for the successful query percentage. If the percentage falls below this threshold, an alarm is activated.

Software Release: 5E5 and later

Required Field.

Default: 95 (%)

Valid Entries: 0 - 100 (%)

2.135 ATT INTER

Description: Enter one of the four following choices for an AT&T-carried interLATA query.

Software Release: 5E5 and later

Default: A

Valid Entries:

Valid ATT INTER Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.136 LEC INTER

Description: Enter one of the four following choices for a LEC-carried interLATA query.

Software Release: 5E5 and later

Default: A

Valid Entries:

Valid LEC INTER Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.137 ATT INTRA

Description: Enter one of the four following choices for an AT&T-carried intraLATA query.

Software Release: 5E5 and later

Default: A

Valid Entries:

Valid ATT INTRA Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

2.138 LEC INTRA

Description: Enter one of the four following choices for a LEC-carried intraLATA query.

Software Release: 5E5 and later

Default: A

Valid Entries:

Valid LEC INTRA Entries	
Entry	Definition
A	Query handled by AD (Alternate Destination) or BVA. For more information on the EABS Alternate Routing secured feature, see Division 2, Section 4A86.
B	Query handled by LEC.
C	Query handled by AD or BVA and LEC.
D	Query handled by the designated DEFAULT field.

Data Rules:

If "C" is entered, then data must be entered on the LIDBLNQ form (5449 Record).

2.139 DEFAULT

Description: Is the BNS validation default database a LEC? Enter "N" if it is an alternate destination or BVA.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When "C" is entered in any of the ATT/LEC INTER/INTRA fields, the LIDBLNQ form is accessed. If the LIDBLNQ form does not reveal the database, then the L BNS DEFAULT field of this form is accessed.

The entries in the L BNS DEFAULT and L CC DEFAULT fields must match.

2.140 IIW INDET DNY

Description: Should automated international inward BNS (Billed Number Screening) indeterminate replies be denied?

The OSPS International Billed Number Screening is a secured feature that allows an international operator to access an OSPS for the purpose of performing a billed number screening check on a billing number.

This field indicates if indeterminate replies should be given "deny" treatment. The default value is "N", which means IBNS indeterminate query reply treatment results in "allowed" treatment.

The secured FEATURE ID 101 must be activated on the SFSYS form, Recent Change view 8.22. For more information on the OSPS International Billed Number Screening feature, see Division 2, Section 4A101.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.141 INDET AIBNS

Description: Should the treatment for an Automated AIBNS (Automated Inward Billed Number Screen) indeterminate query reply be allowed or denied? This field specifies whether deny treatment is to be given when the AIBNS reply is indeterminate.

The AIBNS (Automated Inward Billed Number Screening) feature provides Automated Inward access to the BNS (Billed Number Screening) capabilities of the OSPS. The BNS collect or third number check is performed automatically upon receiving a 10-digit number. Announcements are provided indicating whether the number to be used for billing is allowed, denied, or is a public station.

Software Release: 5E8 and later

Required Field.

Default: A

Valid Entries:

Valid INDET AIBNS Entries	
Entry	Definition
A	Allow the call, indeterminate replies are given allow treatment.
D	Deny the call, indeterminate replies are given deny treatment.

2.142 INTRA AIBNS

Description: Should AIBNS intraLATA replies be given allow treatment? This field specifies whether allow treatment is to be given when the collect or third number acceptance indicator in the AIBNS reply indicates an intraLATA allow. "N" indicates the intraLATA allow reply will be given deny treatment.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

89/CCC (ANSI)

The following fields (Section 2.143 - Section 2.144) define the 89C (CCITT Telecommunication) card options.

2.143 MIN QUERY

Description: Enter minimum number 891/CCC ANSI Transaction query attempts in a 15 minute period before an SW (software) alarm is given.

Software Release: 5E7 and later

Default: 40

Valid Entries: 1 - 64

2.144 ALARM THR

Description: Enter 891/CCC ANSI TCAP (Transaction Capabilities Application Part) query software alarm threshold, which is the successful ANSI non-alarmed query percentage. This percent is number of ANSI TCAP queries attempted in a 15 minutes period, which Every fifteen minutes, counts of the number of ANSI TCAP queries attempted and the number of queries with reply valid are sent to the DS SP (Direct Signaling - System Process) are counted. The ANSI TCAP query success rate is calculated from these counts and is compared to the value in this field.

Software Release: 5E7 and later
 Required Field.
 Default: 95%
 Valid Entries: 0 - 100 (%)

QUERY REPLIES

The following fields (Section 2.145 - Section 2.147) define the parameters for the LIDB Change Handling of Indeterminate Reply Codes Secured Feature. See Division 2, Section 4A81 for more information on this feature.

To activate this feature, 81 must be entered for the feature ID on the SFSYS form (5713-1 Record).

2.145 UNR AND NPG

Description: Specifies whether LIDB unavailable network resources and nonparticipating group query replies should be allowed, denied or given existing treatment. Existing treatment is specified by the field CC BILL BLOCK for card and indeterminate for BNS.

Software Release: 5E7 and later.
 Required Field.
 Default: E
 Valid Entries:

Valid UNR AND NPG Entries	
Entry	Definition
A	Allow; LIDB unavailable network resources and nonparticipating group query replies will be allowed.
D	Deny; LIDB unavailable network resources and nonparticipating group query replies will be denied.
E	Existing treatment; LIDB unavailable network resources and nonparticipating group query replies will be given existing treatment (field CC BILL BLOCK for card, indeterminate for BNS).

2.146 TIMEOUT

Description: Specifies whether a LIDB timeout query reply should be allowed, denied or given existing treatment. Existing treatment is specified by the field CC BILL BLOCK for card, and indeterminate for BNS.

Software Release: 5E7 and later.
 Required Field.
 Default: E
 Valid Entries:

Valid TIMEOUT Entries	
Entry	Definition
A	Allow; LIDB timeout query replies will be allowed.
D	Deny; LIDB timeout query replies will be denied.
E	Existing treatment; LIDB timeout query replies will be given existing treatment (field CC BILL BLOCK for card, and indeterminate for BNS).

2.147 OTHER INDET

Description: Specifies whether the other LIDB indeterminate query replies, Misroute, Missing Group, Reject Message, and Garbled message, should be allowed, denied or given existing treatment. This field does not apply to reply codes No Translation Address, Subsystem Congestion, Subsystem Failure, Unequipped User, Network Failure, or Network Congestion. Existing treatment is specified by the field CC BILL BLOCK for card, and indeterminate for BNS.

Software Release: 5E7 and later.

Required Field.

Default: E

Valid Entries:

Valid OTHER INDET Entries	
Entry	Definition
A	Allow; all other LIDB indeterminate query replies will be allowed.
D	Deny; all other LIDB indeterminate query replies will be denied.
E	Existing treatment; all other LIDB indeterminate query replies will be given existing treatment (field CC BILL BLOCK for card, and indeterminate for BNS).

CAS

The following fields (Section 2.148 - Section 2.157) define CAS (Customer Account Services) options.

2.148 TIME

Description: This field specifies the amount of time to wait for a CAS query reply. Enter the longest time that CAS call processing will wait for a calling card reply. Entries are made in tenths of a second, for example, 10 represents one second, 11 represents 1.1 second, and 25 represents 2.5 seconds.

A timeout will result in call processing continuing the call (as indicated by the entry in the INDT BLK field). The level of query traffic that can be handled decreases as the holding time increases; extreme care should be used when increasing the value above the default value (20, or two seconds).

Software Release: 5E5 and later

Valid Entries: 10 - 80 (tenths of a second)

2.149 MIN QUERY

Description: Enter the minimum query attempts required in 15 minutes before CAS software alarm calculations will be performed.

Software Release: 5E5 and later

Default: 40

Valid Entries: 1 - 64

2.150 ALARM THR

Description: Enter CAS alarm threshold which is a value for the successful query percentage. If the percentage falls below this threshold, an alarm is activated.

Software Release: 5E5 and later

Default: 95(%)

Valid Entries: 0 - 100(%)

2.151 CAS ON

Description: Is the CAS feature turned on? If "N" is entered in this field, then all 0- and 0+ calling card calls are treated as 10+4 card calls (LEC card).

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in this field, then a CASCON form (5455 Record) and a CASICON form (5456 Record) must be submitted (contract tables must exist).

If the entry in the NCD OFF field is "Y", then the entry in the CAS ON field must be "Y".

2.152 INDT BLK

Description: Should the call be blocked when CAS query response is indeterminate?

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

2.153 PIN ONLY

Description: Can the customer dial a 4-digit PIN (Personal Identification Number) only for calling card calls (pre-authorized collect feature)? The operator may enter a 4-digit PIN regardless of the entry in this field.

Software Release: 5E5 and later

Default: Y

Valid Entries: Y, N

2.154 NCD OFF

Description: Is NCD (Network Call Denial) query for calling cards turned off?

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

If the entry in the NCD OFF field is "Y", then the entry in the CAS ON field must be "Y".

2.155 CON TO OPR

Description: Is the caller to be routed to an operator when a contract table check violation is detected by call processing? A contract table check occurs when a caller uses an AT&T CAS calling card on an LEC-carried call.

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

2.156 INCON TO OPR

Description: Enter "Y" is the caller to be routed to an operator when an inverse contract table check violation is detected by call processing? An inverse contract table check occurs when a caller uses an LEC calling card on an AT&T-carried call.

Software Release: 5E5 and later
Default: N
Valid Entries: Y, N

2.157 INW VAL ID

Description: Is the CAS IVI (Inward Validation Identification) feature activated? (See Division 2 Section 3I for more information on the CAS IVI feature.)

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If INW VAL ID is "Y", CAS R3 ON must be "Y".

If PL ON is "Y", INW VAL ID must be "Y".

COMMERCIAL CREDIT CARD

The following fields (Section 2.158 - Section 2.161) define CCC (Commercial Credit Card) options. They are available with CAS Release 2.

2.158 CCC ON

Description: Will the OSPS process CCC (Commercial Credit Cards) or other non-AT&T telecommunication cards (TEL)?

Software Release: 5E5 and later
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered in the CCC ON field, then "Y" must be entered in the OSPS TA field, and "Y" must be entered in the CAS ON field.

2.159 PROMPT TIME

Description: This field indicates the timing interval from the "bong" tone to initial digit reception for a customer-dialed 0+ ACCS call. A call that reaches the end of this timing interval will be routed to an operator position.

Entries are made in tenths of a second, for example, 20 represents two seconds, 21 represents 2.1 seconds, and 35 represents 3.5 seconds.

Software Release: 5E5 and later
Default: 50 (5 seconds)
Valid Entries: 20 - 90 (tenths of a second)

Data Rules:

This field will have no effect unless "Y" is entered in the CCC ON field.

2.160 ZERO TIME OUT

Description: This field is for customer-dialed 0+ ACCS calls; and indicates the timing interval of all card types (LEC, CAS, CCC and TEL) to route a call to an operator position when the initially-dialed card number is a "0" after the "bong" tone.

Entries are made in tenths of a second, for example, 10 represents one second, 11 represents 1.1 seconds, and 25 represents 2.5 seconds. The default value, 0, means that the call will be immediately routed to an operator position.

Software Release: 5E5 and later

Default: 0

Valid Entries: 0 - 90 (tenths of a second)

Data Rules:

This field will have no effect unless "Y" is entered in the CCC ON field.

2.161 DIGS TIME OUT

Description: This field is for customer-dialed ACCS calls, and indicates the inter-digit timing interval for all card types (LEC, CAS, CCC and TEL) from the first non-zero digit after the "bong" tone, until the last of a maximum of 32 digits is received. A timeout is the end of the calling card number entry process.

Call processing will give proper treatment to this call, depending on the received calling card number. If the account number has a variable number of digits, this field is used to determine the end of the calling card entry process.

Entries are made in tenths of a second, for example, 20 represents 2 seconds, 21 represents 2.1 seconds, and 35 represents 3.5 seconds.

Software Release: 5E5 and later

Default: 50 (5 seconds)

Valid Entries: 20 - 90 (tenths of a second)

Data Rules:

This field will have no effect unless "Y" is entered in the CCC ON field.

ENHANCED CUT-THROUGH

The following fields (Section 2.162 - Section 2.164) define options for Enhanced Operator Cut-through feature. (See Division 2, Section 3I for more information on this 5E8 Software Release feature.)

2.162 ECUT ON

Description: Is the Enhanced Operator Cut-through Feature activated?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ECUT ON is "Y", CAS ON must be "Y".

2.163 ECUT TIME

Description: Enter the interdigit timing after the fourteenth calling card digit is collected for the Enhanced Operator Cut-through feature. The timing entry is in tenths of a second, e.g., an entry of 20 is 2 seconds and an entry of 50 is 5 seconds.

Software Release: 5E8 and later

Required Field.

Default: 25

Valid Entries: 20 - 50 (tenths of a second)

2.164 ECUT ODO

Description: Is an operator request automatically generated? If "N" is entered, then the call is idled with a disconnect announcement when a caller's second attempt to enter a calling card number results in an ECUT (Enhanced Operator Cut-through) card recognition failure.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then "Y" must be entered in the ECUT ON field.

CAS RELEASE 3

The following fields (Section 2.165 - Section 2.171) define the CAS Release 3 options.

2.165 CAS R3 ON

Description: Is CAS R3 (Customer Account Services Release 3) feature activated?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If CAS R3 ON is "Y", then CAS ON must be "Y" and CCC ON must be "Y".

If CAS R3 is "Y", at least one TCCID form must exist.

2.166 OFFICE ADMIN ID

Description: Enter a number to identify the originating administration to the foreign card databases for ICCV queries. The OFFICE ADMIN ID is sent as a field in a CAS CCS7 or CCITT TCAP (Transaction Capabilities

Application Part) query.

Software Release: 5E7 and later

Default: 8900

Valid Entries: 0 - 9999999

2.167 CCS7 ALARM THR

Description: Enter the number of software alarm queries that is the threshold for CAS (Customer Account Services) TCAP (Transaction Capabilities Application Part). Every 15 minutes, counts of the number of CAS TCAP queries attempted and the number of queries with "reply valid" are sent to the DSSP (Direct Signal System Process). The CAS TCAP query success rate is calculated from these counts and is compared to the CCS7 ALARM THR percent. If the percentage rate falls below this threshold an alarm is activated. The CCS7 ALARM THR is specified by the TCA.

Software Release: 5E7 and later

Default: 95(%)

Valid Entries: 0 - 100(%)

2.168 ICCV ALARM THR

Description: Enter the number software alarm queries for the threshold for ICCV (International Credit Card Validation) TCAP. Every 15 minutes, counts of the number of ICCV CCITT TCAP queries attempted and the number of queries with "reply valid" are sent to the DSSP (Direct Signal System Process). The ICCV CCITT TCAP query success rate is calculated from these counts and is compared to ICCV ALARM THR. If the percentage rate falls below the threshold, an alarm is activated. The ICCV ALARM THR is specified by the TCA.

Software Release: 5E7 and later

Default: 95(%)

Valid Entries: 0 - 100(%)

2.169 CCS7 MIN QUERY

Description: Enter the the minimum number of CAS CCS7 TCAP queries to be attempted in a 15 minute period before alarm.

Software Release: 5E7 and later

Default: 40

Valid Entries: 1 - 64

2.170 ICCV MIN QUERY

Description: Enter the the minimum number of ICCV CCITT TCAP queries to be attempted in a 15 minute period before alarm.

Software Release: 5E7 and later

Default: 40

Valid Entries: 1 - 64

2.171 RECOGNIZE 10P4

Description: Recognize 10+4 cards in the CAS card recognition table?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If RECOGNIZE 10P4 is "Y", then CAS R3 ON must be "Y".

CARRIER SPECIFIC ROUTING

The following field defines the carrier specific routing.

2.172 CSR ON

Description: Is the CAS (Customer Account Services) CSR (Carrier Specific Routing) active? (For more information on this feature see Division 2, Section 3I.)

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CSR ON is "Y", CAS R3 ON must be "Y" and the Fully Coded Addressing feature must be activated, FCA ON must be "Y".

CAS CARD LIMITS

The following fields (Section 2.173 - Section 2.183) define CAS Purchase Limit attributes. For all Card Limit features, CAS R3 must be set to "Y". (For more information on CAS features see Division 2, Section 3I.)

2.173 PURCHASE LIMIT

Description: Is the CAS Purchase Limit Feature activated? For more information on CAS features see Division 2, Section 3I.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When PL ON is "Y", INW VAL ID must be "Y".

2.174 DURATION LIMIT

Description: Is the OSPS CAS Duration Limits feature active? This feature provides the ability to monitor the duration of a card call and possibly limit the call's duration to an amount specified in the card validation reply to a CAS CCS7 card validation query. See Division 2 Section 3I for more information on the CAS Duration Limits feature.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If DURATION LIMIT is "Y", then CAS INW VAL ID must be "Y".

2.175 VOLUME LIMIT

Description: Is the OSPS CAS Volume Limits feature active? This feature provides the ability to limit the number of calls billed to an AT&T CAS card. For more information on CAS features see Division 2, Section 3I.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If VOLUME LIMIT is "Y", CAS INW VAL ID must be "Y".

2.176 ENHANCED LIMITS

Description: Is the OSPS CAS Enhanced Limits feature active? This feature provides the ability to explicitly restrict card calls to one call in progress at a time, or explicitly enable card calls to allow multiple calls in progress at a time. For more information on CAS features see Division 2, Section 3I.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ENHANCED LIMITS is "Y", then CAS INW VAL ID must be "Y".

2.177 CDM TIME

Description: Enter the Purchase Limit timing interval for calls in progress. This is the time in seconds, entered at 30-second intervals, between updates to the NCP while a call is in progress. For example, in 5E9(1) and later, if the entry is 600 (seconds) i.e., 10 minutes, then every 10 minutes while the call is in progress the OSPS sends a message to the database to update a CAS Limits card's status in the database while the call is in progress. For more information on CAS features see Division 2, Section 3I.

Software Release: 5E8 and later
Required Field.
Default: 600 (10 minutes)
Valid Entries: 30 - 1200 (seconds at 30-second intervals)

Data Rules:

For 5E9(1) and later, the value entered in CDM TIME must be equal to or greater than the value entered in the MIN REQUERY field plus 33 (CDM TIME = (or) MIN REQUERY + 33).

2.178 WARN TIME

Description: Enter the amount of time in seconds which is the amount of time after a Card Limits Disconnect Warning Announcement is played before the call is forcibly disconnected. For more information on CAS features see Division 2, Section 3I.

Software Release: 5E9(1) and later

Default: 30 (seconds)

Valid Entries: 10 - 90 (seconds, entered in increments of 5 seconds)

Data Rules:

If OSPS TA is set to "Y" on this form, then the announcement headers OSPSTA 171 and OSPSTA 174 on the ANNHD form have the same disconnect warning time interval (specified by PHRASES values) which is displayed as the entry in this field. Therefore, the PHRASES value which is third to the last (or third and fourth to the last) represents a time value equal to the entry in this field.

2.179 COURTESY INTERVAL

Description: This parameter is associated with the CAS Card Limits features. It provides a courtesy interval for the customer by specifying a desired (though not guaranteed) minimum amount of time a customer may talk before hearing a CL DWA (Card Limits Disconnect Warning Announcement). If the maximum allowed length of the call is so short that the caller would hear the CL DWA before having talked for the courtesy interval time, then the OSPS uses the minimum possible value of the Disconnect Warning Interval of 10 seconds instead of the value specified in this field. For more information on CAS features see Division 2, Section 3I.

Software Release: 5E9(1) and later.

Required Field.

Default: 12

Valid Entries: 8 - 99 (seconds)

2.180 MIN REQUERY

Description: Enter the CL MRT (Card Limit Minimum Re-query Time) in seconds, which is the minimum required time between requests to the card database for an additional balance. If a call does not have enough balance left to last through the duration of the MRT before it must request more balance again, then it is disconnected after consumption of the currently available balance without requesting more balance. This parameter is associated with the CAS Enhanced Limits feature of multiple calls in progress.

Software Release: 5E9(1) and later.

Required Field.

Default: 120 (seconds)

Valid Entries: 30 -360 (seconds)

2.181 PLBQ ON

Description: Is the Purchase Limit Balanced Quotation feature activated? The PLBQ (Purchase Limit Balance Quotation) feature provides special handling for disposable cards, which is a subset of PL (Purchase Limit)

cards. Calls that are billed to disposable cards will receive a quotation of their remaining balance in dollars and cents prior to call completion. For more information on the PLBQ feature, see Division 2, Section 4A24.

Software Release: For RC/V: 5E8 and later

For ODA: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When PLBQ ON is "Y", PURCHASE LIMIT must be "Y".

2.182 PLBQ2 ON

Description: Should Release 2 of the PLBQ (Purchase Limit Balanced Quotation) feature be activated? See Division 2 Section 4A24 for more information on the PLBQ feature.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PLBQ2 ON is "Y", then PLBQ ON must be "Y".

2.183 AMA GENERIC DATA

Description: Is the AMA Generic Data Module feature activated? The OSPS provides the TCA with the ability to activate/deactivate the appending of the Generic Data AMA Module. The PLBQ Release 2 feature requires a new AMA module and tables to store the Card Rate, Product Type, and Tax Exemption indicator. The OSPS must append Module 343 - Generic Data Module to the AMA structure that is recorded for all "on-net" card calls if Release 2 is activated and the feature activation for AMA recording of card information is on.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If AMA GENERIC DATA is "Y", PLBQ2 ON must be "Y".

NON-ENGLISH ANNC

The following fields (Section 2.184 - Section 2.185) define the attributes for the Non-English Announcements For Card Calls feature. For more information on NACC features see Division 2, Section 3I.

2.184 NACC

Description: Is the NACC (Non-English Announcements for Card Calls) feature active? The NACC feature provides the ability to play announcements for card calls in languages other than English.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If NACC is "Y", CAS ON must be "Y".

2.185 MAX LOP

Description: Enter the maximum LOP (Language Override Parameter) value that is considered valid in a CAS CCS7 TCAP query reply. The LANGUAGE entries on the LANGTBL form (5483-1 Record) may not exceed the MAX LOP value.

Software Release: 5E9(1) and later.
Default: 5
Valid Entries: 5 - 7

Data Rules:

If LANGUAGE is entered on the TCCID form, and a corresponding LANGTBL form exists (found by matching LANGUAGE on the TCCID form to DISPLAY ID on the LANGTBL form), then MAX LOP must be entered on the OSPSOPT form. No LANGUAGE entries on the LANGTBL form may exceed the MAX LOP value entered on the OSPSOPT form.

ICCV

The following fields (Section 2.186 - Section 2.190) define the parameters for ICCV (International Credit Card Validation). For more information on ICCV features, see Division 2, Section 3I.

2.186 CDBS

Description: Is CDBS (Customer Defined Bill Segmentation) for ICCV calls activated? (For more information on CDBS, see Division 2, Section 3I.)

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CDBS is "Y", CAS R3 ON must be "Y".

2.187 GEO RESTRICT

Description: Is the OSPS International Credit Card Validation - Called Number Geographic Restrictions feature activated? This feature allows restrictions to be placed on PTT (Post Telegraph and Telephone) card billed calls that originate on an AT&T OSPS.

Software Release: 5E9(1) and later.
Required Field.

Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then CAS R3 ON must be "Y".

2.188 CALL DUR CHRG

Description: Is the ICCV Call Duration and Charge feature active? The OSPS ICCV CDC (Request for Call Duration and Charge) feature provides a call disposition message containing call information to the card issuer. For more information on this feature, see Division 2, Section 3I

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then CAS R3 ON must be "Y".

2.189 SDR CONV

Description: Enter the Standard Drawing Rights conversion factor. This parameter is used to convert US monetary units to SDR (Standard Drawing Rights) and vice-versa for International Credit Card Validation call processing.

Software Release: 5E9(1) and later.
Required Field.
Default: 1.1000
Valid Entries: 0.0000 - 1.9999

2.190 CALL SCREENING

Description: Is the ICCV Call Screening feature activated? This feature allows restrictions on calls made to the "home" country for ICCV.

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

CAS RESTRICTIONS

The following field indicates if the Called Number Restrictions feature is active.

2.191 CDNR CGNR

Description: Is the Called or Calling Number Restrictions feature active? This feature is an enhancement to the CAS (Customer Account Services) R3 feature, and allows identification of reply codes from a card database query that indicate restrictions on the called number or calling number.

Software Release: 5E8 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then CAS R3 ON must equal "Y".

CARD SPEED DIALING (CSD)

The following fields (Section 2.192 - Section 2.195) define options for the Card Speed Dialing feature which allows holders of CAS/NCP CCS7 calling cards to use their own personal speed dial codes to make card billed calls, by using an abbreviated speed dial code instead of a full forward number. For more information on the Card Speed Dialing feature, see Division 2, Section 4A365.

2.192 ACCESS CODE *

Description: Enter the digit(s) for the service access code for the Card Speed Dialing feature. The access code will be a * and the one or two digits entered in this field.

Software Release: 5E8 and later.
Required Field.
Default: 7
Valid Entries: 1 - 99 (multiples of 10 are not allowed.)

2.193 CBSD ON

Description: Is the CBSD (Card Based Speed Dialing) feature active? For 5E9(2), both Phase 1 and Phase 2 are included in the CBSD feature. Both ACCS and operator calls are now handled under this feature.

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CBSD ON is "Y", then:

- CAS R3 must be "Y"
- CSD ACCESS CODE must be entered

2.194 PHASE 1

Description: Is Phase 1 of the CSD (Card Speed Dialing) feature activated? Phase 1 of the CSD feature provides basic speed dialing for automated card billed calls. Provisioning of the SDC (Speed Dialing Codes) will be done manually by customer services representatives.

Software Release: 5E8 - 5E9(1)
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then CAS R3 must be "Y".

2.195 PHASE 2

Description: Is Phase 2 of the Card Speed Dialing feature activated? Phase 2 of the CSD feature allows the caller to make operator initiated calls.

Software Release: 5E9(1) only

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then CSD PHASE 1 must be also be "Y".

Phase 2 for CSD (Card Speed Dialing) feature is a secured feature that must be purchased by the office before the CSD PHASE 2 field on the OSPSOPT form can be set to "Y". SFID 365 ACT field must be set to "Y" on the SFSYS form (5713-1 Record).

AUTO PROVISIONING (SDAP)

The following fields (Section 2.196 - Section 2.198) support the Card Based Speed Dialing Auto Provisioning feature.

2.196 SDAP ON

Description: Is the Auto Provisioning phase of the CSD (Card Based Speed Dialing) feature active? This phase allows automated position treatment of Speed Dial calls. For more information on Speed Dial Auto Provisioning, see Division 2, Section 4A367. See also, Division 2, Section 4A365 for Card Based Speed Dialing.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If SDAP ON is "Y", then:

- AS FEATURE WORD must be "Y"
- CAS R3 ON must be "Y"
- CBSD ON must be "Y"
- SDAP DEST IDX must be entered
- SDAP PCN must not be 0

2.197 DEST IDX

Description: This field specifies the serving teams that have automated positions capable of handling Card Based Speed Dialing Auto Provisioning calls. This parameter is initially set to 0, but it must be updated to a

valid index, as determined by the service provider, before the Auto Provisioning feature can be activated. When set to a non-zero value, this routing index is used to determine the serving team for the call.

Software Release: 5E9(2) and later.

Valid Entries: 1 - 4095

Data Rules:

If SDAP ON is "Y", then SDAP DEST IDX must be entered. This must equal a destination index (CDI field) defined on an ACDPOL form (5412 Record).

If DEST IDX (for the SDAP feature) is entered, then the following conditions must be met:

1. NEXT CALL TYPE POOL LIST must be entered on an ACDPOL form where the TGN/CDI value on that form equals the DEST IDX on this form.
2. This same ACDPOL form must have a PRE CALL ID which matches the PRE CALL ID on an ACDCTP form.
3. The matching ACDCTP form must have CALL ORIGIN set to "AP".

2.198 SDAP PCN

Description: This field is used as the "pseudo called number" on the AMA records of billable SDAP (Speed Dial Auto Provisioning) calls such as DIOR and Wireless. For more information on Speed Dial Auto Provisioning, see Division 2, Section 4A367. See also, Division 2, Section 4A365 for Card Based Speed Dialing.

Software Release: 5E9(2) and later.

Required Field.

Default: 0

Valid Entries: 0 or 10 digits

MECH

The following fields (Section 2.199 - Section 2.207) define options for MECH (More Efficient Call Handling) feature.

2.199 FEATURE WORD

Description: Is MECH feature processing activated? ("T" for test trunk can be entered in the Recent Change View.)

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E9(2) and later:

COIN MECH on the OSPSOPT form must be entered, if this office has an EQIM form where the value of

CONFIGURATION supports OSPS. Also, one or more of the following conditions is true:

- OSPS DA is "Y" on the OSPSOPT form
- OSPS TA is "Y" on the OSPSOPT form
- PSM is "Y" on an OSPSSMINF form
- OSPS PSM is "Y" on an EQIM form

For the CONFIGURATION that supports OSPS see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

Conversely, if an office does not have an EQIM form where the value of CONFIGURATION supports OSPS or when both the ACTS (Automated Coin Toll Service) and the FEATURE WORD fields are not set to "Y", then COIN MECH must be 0.

2.200 PERSON SWITCH

Description: Is MECH processing of person-to-person calls is activated?

Software Release: 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

If PERSON SWITCH is "Y", PERSON COLLECT must be "Y".

2.201 PERSON COLLECT

Description: Is MECH processing of person-to-person collect calls activated? The OSPS 5E6 MECH feature accommodated MECH eligibility on Station Collect calls only or on Station Collect calls plus all Person calls regardless of their class of charge (Person Paid, Person Card, etc). The PERSON COLLECT field, when coordinated with the PERSON SWITCH field value, allows both call handling enforcement and OAP 15 Minute and 24 Hour Report support of Station and Person Collect only MECH eligibility. The following table illustrates the allowed states of these fields and the resulting MECH eligibility for Person calls.

PERSON SWITCH	PERSON COLLECT	MECH ELIGIBILITY
N	Y	Only PERSON COLLECT is MECHable
Y	Y	ALL PERSON calls are MECHable. These are the active values at retrofit and they apply when, before retrofit, Station Collect PLUS ALL Person calls were technically MECHable. To change to the Station and Person Collect only MECH eligibility state, PERSON SWITCH must be changed from "Y" to "N".
N	N	NO PERSON calls are MECHable
Y	N	Invalid combination

Software Release: 5E9(1) and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.202 MUTE BK

Description: Should the back party be muted at operator seizure? If "Y" is entered, the back party is muted when a MECH processed call goes to an operator's position after the forward party answer.

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

2.203 MUTE FWD

Description: Should the forward party be muted at operator seizure? If "Y" is entered the forward party is muted when a MECH call goes to an operator's position after the forward party answer.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.204 MECH ANNC

Description: Should the holding announcement always be played for each call if an operator is not available to service the call at the forward party answer? If "N" is entered in the MECH ANNC field, then the holding announcement is only played when the expected delay exceeds the first delay threshold entered in the 1ST ANNC DELAY field on the OSPSCT form.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.205 MECH BRAND

Description: Should the branding feature be activated for holding announcement calls handled by MECH? Branding indicates the type of operator used. An entry of "N" indicates that the unbranded holding announcement (UNBRANDED ANNC) is played.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.206 REPEAT INTERVAL

Description: REPEAT INTERVAL is the number of seconds between MECH holding announcements.

Software Release: 5E6 and later
Required Field.
Default: 8 (seconds)
Valid Entries: 0 - 255 (seconds)

2.207 OFF HOOK WAIT

Description: OFF HOOK WAIT represents the length of time in minutes a MECH call is outpulsed while waiting for an off-hook message. If an off-hook message is not received within the number of minutes specified in this field, the call is torn down. A value of 0 turns off timing.

Software Release: 5E6 and later
Required Field.
Default: 4 (minutes)
Valid Entries: 0 - 15 (minutes)

LISTING SERVICES

The following fields (Section 2.208 - Section 2.211) define options for Listing Services. For more information on Listing Services features see Division 2 Section 3C.

2.208 LSCC FEATURE WORD

Description: Is the DACC (Directory Assistance Call Completion) feature activated?

Software Release: 5E6(2) and later
Required Field.
Valid Entries: Y, N

2.209 COIN PAID TRAF

Description: Should coin sent paid traffic be allowed for Listing Services call completion?

Software Release: 5E6(2) and later
Required Field.
Default: N
Valid Entries: Y, N

2.210 LS INTER CC

Description: Should interLATA call completion be allowed for Listing Services?

Software Release: 5E6(2) and later
Required Field.
Valid Entries: Y, N

2.211 LSCC R2

Description: Is the Listing Services Call Completion Release 2 feature activated? This feature includes entry of the back number and charging information by the Listing Services operator for LSCC (Listing Services Call Completion.) For more information on Listing Services Features, see Division 2, Section 3C.

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then LSCC FEATURE WORD must be "Y".

2.212 MAX DUAL PORT CST

Description: Enter the maximum number of operator positions allowed to use the CST (Combined Service

Terminals) software for the OSPS Recognition of Customer Provided Terminal feature. This field can only be entered in ODA, it cannot be entered or changed via Recent Change.

Valid Entries: 1 - 4095

Data Rules:

The total number of OSPSOP forms with CST INTERFACE entered must not be greater than the value of MAX DUAL PORT CST. If the total number of forms is greater, either some of the OSPSOP forms must be deleted, or the value of MAX DUAL PORT CST must be increased.

2.213 REC ON TRANS ANNC

Description: Should an enhanced AMA record be generated for Listing Services calls upon transfer to an announcement? The field supports the Enhanced AMA for Listing Services Secured Feature. For more information on this feature see Division 2, Section 4A369.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If LSTG SVC REC is "Y", REC ON TRANS ANNC must be "N".

This field is used by the "Enhanced AMA for Listing Services" secured feature. This feature must be purchased by the office before this field can be set to "Y". A SFSYS form must exist with SFID 369 ACT set to "Y".

2.214 REC ON CSAME/CDIFF

Description: Should an enhanced AMA record be generated for Listing Services calls for CSAME (Completion Same) and CDIF (Completion Different)? CSAME bills the call to the phone used to make the call. CDIF provides alternate billing, such as collect or credit card. The field supports the DACC (Directory Assistance Call Completion) AMA Record with Operator-Entered Forward Number secured feature (SFID 407 and OFID 640). For more information on this feature, see Division 2, Section 407. This field replaced the REC ON MANUAL COMP field.

Required Field.

Data Rules:

If LSTG SVC REC is "Y", REC ON CSAME/CDIFF must be "N".

2.215 REC ON VERBAL REPT

Description: Should an enhanced AMA record be generated for Listing Services calls upon verbal report? The field supports the Enhanced AMA for Listing Services Secured Feature. For more information on this feature see Division 2, Section 4A369.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If LSTG SVC REC is "Y", REC ON VERBAL REPT must be "N".

This field is used by the "Enhanced AMA for Listing Services" secured feature. This feature must be purchased by the office before this field can be set to "Y". A SFSYS form must exist with SFID 369 ACT set to "Y".

2.216 REC ON POS RELEASE

Description: Should an enhanced AMA record be generated for Listing Services calls upon position release? The field supports the Enhanced AMA for Listing Services Secured Feature. For more information on this feature see Division 2, Section 4A369.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If LSTG SVC REC is "Y", REC ON POS RELEASE must be "N".

This field is used by the "Enhanced AMA for Listing Services" secured feature. This feature must be purchased by the office before this field can be set to "Y". A SFSYS form must exist with SFID 369 ACT set to "Y".

INTERCEPT

The following fields (Section 2.116 - Section 2.119) define the Intercept feature. Intercept is a feature for 5E6(2) and later.

2.217 INTER CC

Description: Should OSPS intercept interLATA call completion be allowed?

Software Release: 5E6(2) and later

Required Field.

Valid Entries: Y, N

2.218 DEST IDX

Description: Enter the Intercept Destination Index. This field indicates how OSPS should treat an incoming intercept call when a signaling irregularity is detected. If this field is left blank, then the call is sent to reorder, but if a non-zero value is entered, then this destination index is used to determine the OSPS call queue for the call.

Software Release: 5E6(2) and later

Valid Entries: 1 - 4095

2.219 AIS DAS

Description: Enter the DAS (Digit Analysis Selector) for incoming intercept signaling over MF trunks. The DAS

is used as the starting point in digit analysis for digits signaled over incoming intercept trunks using MR signaling. Using this DAS, an INDIT/LDIT (Incoming Trunk Preliminary Digit Interpreter Table / Local Digit Interpreter Table) combination can be found which defines the valid signaling patterns for these trunks. Valid patterns should have a CALL TYPE of "NORMAL", while invalid patterns should use "VACANT" on the LDIT form.

Software Release: 5E6(2) and later
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

The AIS DAS entered on an OSPSOPT form must be defined as DIGIT ANALYSIS SELECTOR on the DAS form.

AATOS/SDN NRA (AS)

The following fields (Section 2.220 - Section 2.222) define AATOS (Alternate Access to Operator Services) and SDN/NRA (Software Defined Network/ Network Remote Access) options.

2.220 AS FEATURE WORD

Description: Is the processing of AATOS/SDN NRA calls activated?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If AS FEATURE WORD is "Y", then:

- SDN CARRIER must be entered
- For 5E 14 and earlier: SDN DAS must be 1 - 99.
For 5E15 and later: SDN DAS must be 1 - 254.
- OSPS TA must be entered as "Y".
- SDN CARRIER must be entered as the CARRIER ID on the ICF form.

2.221 SDN CARRIER

Description: Enter the default carrier ID for SDN/NRA calls.

Software Release: 5E7 and later
Valid Entries: 0 - 9999

Data Rules:

The SDN CARRIER must be entered as the CARRIER ID on the ICF form. In addition, for 5E9(1) and later, FEAT GRP on the ICF form must equal "D".

2.222 SDN DAS

Description: Enter the Digital Analysis Selector for SDN/NRA calls.

Software Release: 5E7 and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

DIOR SPEED DIALING

The following field defines a parameter for the DSD (DIOR SPEED DIALING) feature. For more information on the DIOR Speed Dialing feature, see Division 2, Section 3K.

2.223 DSD SERVICE CODE

Description: Enter the access code for the DIOR Speed Dialing Service.

Software Release: 5E8 and later.

Default: 14

Valid Entries: 11 - 18 or 191 - 198

Data Rules:

For 5E9(1) and later the DSD SERVICE CODE entry must not equal the ACCESS CODE or SERVICE CODE entries on this form.

SUBACCOUNT BILLING

The following fields (Section 2.224 - Section 2.226) define Sub-account billing options.

2.224 SAB ON

Description: Is Subaccount Billing to be offered by this switch?

Software Release: 5E5 and later

Default: N

Valid Entries: Y, N

Data Rules:

This field must be "Y" if the entry in LEC ALW is "Y".

2.225 ACCESS CODE

Description: This field indicates the Subaccount Billing access code, which is the digit sequence keyed by the customer at the ACCS bong tone to indicate that the call should receive Subaccount Billing treatment.

Software Release: 5E5 and later
Default: 15
Valid Entries: 11 - 18

2.226 LEC ALW

Description: If the switch is owned by an interexchange carrier, is Subaccount Billing Service offered by the LEC serving this switch?

Software Release: 5E5 and later
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered in the LEC ALW field, then "Y" must be entered in the SAB ON field.

CALL QUEUE SLOTS

The following fields (Section 2.227 - Section 2.229) define call queuing options for ACD. Software Release: 5E6 and later

2.227 ACTUAL CQDB

This is a Recent Change only field.

2.228 REQUIRED CQDB

This is a Recent Change only field.

2.229 CLAIM CQDB

Description: CLAIM CQDB specifies the maximum number of conference and transfer requests within the OSPS ACD to specific positions (i.e., requested by operator login id or position number) that can be queued because the "claimed" positions are busy.

Software Release: 5E6 and later
Required Field.
Default: 0
Valid Entries: 0 - 5000

Data Rules:

The sum of the entry in this field and all the entries of MAX CALLS on the OSPSCT form (5404 Record) must not exceed 5000.

DIOR SEQUENCE CALLING

The following fields (Section 2.230 - Section 2.236) define parameters for DIOR Sequence Call Handling. For more information on DIOR Sequence Call Handling, see Division 2, Section 3K on DIOR features.

2.230 DOM WAIT

Description: Enter the domestic waiting time period in seconds for the amount of time the DIOR Sequence Call Handling feature must wait before playing the announcement offering sequence dialing for an undefined or ring/no answer domestic call.

Software Release: 5E9(1) and later.

Default: 36

Valid Entries: 1 - 120 (seconds)

Data Rules:

If DIOR OTTO ACT is "Y", then DOM WAIT, INTL WAIT, and POST COMPL must all be entered.

2.231 INTL WAIT

Description: Enter the international waiting time period in seconds that is the amount of time the DIOR Sequence Call Handling feature must wait before playing the announcement offering to transfer the call to an operator on undefined or ring/no answer international call.

Software Release: 5E9(1) and later.

Default: 60

Valid Entries: 1 - 120 (seconds)

Data Rules:

If DIOR OTTO ACT is "Y", then DOM WAIT, INTL WAIT, and POST COMPL, must all be entered.

2.232 POST COMPL

Description: Enter the post call completion time period in seconds that is the amount of time the DIOR Sequence Call Handling feature must wait before playing the announcement offering to transfer the call to an operator after a call has been completed. Entering 15 effectively turns this feature off for post call completion, since the switch disconnects after 10 seconds.

Software Release: 5E9(1) and later.

Default: 3

Valid Entries: 0 - 9, 15 (seconds)

Data Rules:

If DIOR OTTO ACT is "Y", then DOM WAIT, INTL WAIT, and POST COMPL must all be entered.

2.233 BUSY ANN ACT

Description: Should the DIOR Sequence Call Handling feature play an announcement to offer to transfer to the operator the CCS7 busy calls?

Software Release: 5E9(1) and later.

Default: N

Valid Entries: Y, N

2.234 RNA ANN ACT

Description: Should the DIOR Sequence Call Handling feature play an announcement to offer to transfer to the operator the CCS7 ring no answer calls?

Software Release: 5E9(1) and later.
Default: N
Valid Entries: Y, N

2.235 UNDEF ANN ACT

Description: Should the DIOR Sequence Call Handling feature play an announcement to offer to transfer to the operator the calls with a called number status of undefined?

Software Release: 5E9(1) and later.
Default: N
Valid Entries: Y, N

2.236 DIOR OTTO ACT

Description: Should the DIOR Sequence Call Handling feature be activated to OTTO (Offer Transfer To Operator)?

Software Release: 5E9(1) and later.
Default: N
Valid Entries: Y, N

If DIOR OTTO ACT is "Y", then DOM WAIT, INTL

WAIT, and POST COMPL must all be entered.

DIOR AUTOMATED CALLING

The following field supports DIOR AIC R3 (Direct International Originations Automated Initial Calls Release 3) feature. For more information on this feature, see Division 2, Section 3K on Direct International Originations.

2.237 DIOR AIC R3

Description: Is the DIOR Automated Initial Calls Release 3 feature active?

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

VOICE MESSAGING SERVICE

The following fields (Section 2.238 - Section 2.241) define Voice Messaging service options.

2.238 VMS ON

Description: Is the OSPS VMSI feature activated?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ESP CREDIT CHECK is "Y", then CAS R3 ON must be "Y" and VMS ON must be "Y".

If PROMPT ON BUSY is "Y", then VMS ON must be "Y".

If PROMPT ON RING is "Y", then VMS ON must be "Y".

If OSPS TA is "N" then VMS ON must be "N".

If VMS ON is "Y" then SERVICE CODE must be entered.

2.239 VMS TIME OUT

Description: Enter the time out for ready to receive measured in seconds.

Software Release: 5E7 and later

Required Field.

Default: 20

Valid Entries: 1 - 20 seconds

2.240 OSPS OWNER

Description: Enter the the owner ID of the originating OSPS.

Software Release: 5E7 and later

Required Field.

Default: 0

Valid Entries: 0 - 9

2.241 SERVICE CODE

Description: Enter the VMSI Service Code.

Software Release: 5E7 and later

Default: 12

Valid Entries: 11 - 18, 191 - 198

Data Rules:

SERVICE CODE must not equal ACCESS CODE.

If SERVICE CODE is equal to 15, ACCESS CODE must be entered, but not as 15.

If VMS ON is "Y", then SERVICE CODE must be entered.

VMS ANNOUNCEMENT PROMPT

The following fields (Section 2.242 - Section 2.244) define VMS announcement prompt options. See Division 2, Section 3I for more information on this feature.

2.242 PROMPT ON BUSY

Description: Is the VMS prompt treatment on busy calls feature activated?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PROMPT ON BUSY is "Y", then VMS ON must be "Y".

2.243 PROMPT ON RING

Description: Is the VMS prompt treatment on Ring - No Answer activated?

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PROMPT ON RING is "Y", then VMS ON must be "Y".

2.244 RING TIME OUT

Description: Enter the RING TIME OUT in seconds before applying VMS Prompt On Ringing. This field is used by OSPS to indicate the amount of time it will wait before applying VMS prompting treatment on Ring - No Answer calls.

Software Release: 5E7 and later

Default: 36

Valid Entries: 0 - 120 (seconds)

ESP (VMS) CREDIT CHECK

The following field defines the ESP (Enhanced Service Provider) VMS (Voice Messaging Service) credit check.

2.245 CREDIT CHECK

Description: Is the Enhanced Service Provider Credit Checking feature activated? For more information on this feature, see Division 2, Section 3I.

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ESP CREDIT CHECK is "Y", then CAS R3 ON must be "Y" and VMS ON must be "Y".

TELEPHONE RELAY SERVICE (TRS)

The following fields (Section 2.246 - Section 2.248) define parameters for the TRS (Telephone Relay Service) feature. The OSPS TRS Call Handling special feature provides identification of TRS call billing restrictions based on received ANI Information Digits (II), screening calls originating in the area normally served by the receiving OSPS and identifying the calls as TRS calls in the AMA records for billing purposes. For more information on the TRS secured feature, see Division 2, Section 4A25.

2.246 TRS UNRESTRICTED

Description: Enter Telephone Relay Service unrestricted ANI II digits. Unrestricted indicates that all types of billing are allowed.

Software Release: 5E8 and later.

Required Field.

Default: 60

Valid Entries: 10 - 99

2.247 TRS RESTRICTED

Description: Enter the Telephone Relay Service restricted ANI II digits. Restricted indicates that sent-paid billing is not allowed.

Software Release: 5E8 and later.

Required Field.

Default: 67

Valid Entries: 10 - 99

2.248 TRS HOTEL

Description: Enter the Telephone Relay Service hotel ANI II digits. Hotel indicates that sent-paid billing not allowed on calls with an ANI outside the normally served area of the OSPS.

Software Release: 5E8 and later.

Required Field.

Default: 66

Valid Entries: 10 - 99

PRE-PAID OVERTIME COIN

The following fields (Section 2.249 - Section 2.250) define parameters for the Prepaid Overtime Coin feature. For more information on the Prepaid Overtime Coin feature see Division 2, Section 4A372.

2.249 COIN WARN

Description: This field is used to specify the time for the warning period for Pre-Paid Overtime for Coin Calls. This time period is for the amount of time prior to the end of the overtime period that a warning announcement should be given to the caller. If 0 is entered, no warning will be given.

Software Release: 5E9(1) and later.

Valid Entries: 0 - 15

2.250 ERROR HNDLG

Description: This field is used to specify the type of call handling that should be used when too many rating

failures occur on a Pre-Paid Overtime for Coin Call. The default treatment is to revert to standard post-paid coin service.

Software Release: 5E9(1) and later.

Valid Entries:

Valid ERROR HNDLG Entries	
Entry	Definition
STD	Standard post-paid coin service
OPER	Transfer to an operator

AUTO INWRD LINE SCRIN

The following fields (Section 2.251 - Section 2.255) support the AILS (Automated Inward Line Screening) feature. For more information on the AILS features, see Division 2, Section 4A370.

2.251 SOFTWARE VERSION

Description: Enter the AILS software version currently active in the OSPS.

Software Release: 5E9(1) and later.

Required Field.

Default: 1

Valid Entries: 1 - 99

2.252 ALLOW TCS

Description: are AILS CCS7 TCAP queries for TCS checks allowed when the OSPS is accessed via an 800 number?

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.253 TIME

Description: Enter the TCAP query timeout parameter. It is expressed in tenths of seconds, e.g. enter 20 for 2 seconds.

Software Release: 5E9(1) and later.

Required Field.

Default: 20 (tenths of a second)

Valid Entries: 5 - 100 (tenths of a second)

2.254 ALARM THRESHOLD

Description: Enter the percentage to be compared with the ratio of AILS AT&T CCS7 TCAP query successes to total query attempts. In the event this ratio falls below the threshold, a software alarm will be activated. This field will not be active until 5E10 and later.

Software Release: 5E9(1) and later.

Required Field.

Default:

For 5E9(1) - 5E9(2): 0
For 5E10 and later: 95

Valid Entries: 0 - 100

2.255 MINIMUM QUERY

Description: Enter the minimum number of query attempts required within a quarter hour for AILS AT&T CCS7 TCAP queries before a software alarm is activated by the OSPS. This field will not be active until 5E10 and later.

Software Release: 5E9(1) and later.
Required Field.
Default:

For 5E9(1) - 5E9(2): 1
For 5E10 and later: 40

Valid Entries: 1 - 64

AUTO SERVICE ACCESS PROMPT

The following fields (Section 2.256 - Section 2.257) support the Auto Service Access Prompt for Language Specific Operator Services feature. For more information on this secured feature, see Division 2, Section 4A384.

2.256 ASAP AMA

Description: Should a new module be attached to the AMA billing stream that identifies calls that were given ASAP (Automated Service Access Prompting) FEM (Front End Menu) prompting?

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

ASAP (Auto Service Access Prompt) is a secured feature and must be purchased by the office before the ASAP AMA or ASAP RTRS field on the OSPSOPT form can be set to "Y". The ACT field for SFID 384 must be set to "Y" on the SFSYS form (5713-1 Record) or the ACT field for SFID 288 for AT&T secured features must be "Y".

2.257 ASAP RTRS

Description: Should a new module be attached to the RTRS (Real Time Rating System) queries for ASAP calls and 0- operator calls to identify the level of automation and who entered the forward number?

Software Release: 5E9(1) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

ASAP (Auto Service Access Prompt) is a secured feature and must be purchased by the office before the ASAP AMA or ASAP RTRS field on the OSPSOPT form can be set to "Y". The ACT field for SFID 384 must be set to "Y" on the SFSYS form (5713-1 Record) or the ACT field for SFID 288 for AT&T secured features.

INCOMING SS7 SIGNALING

The following fields (Section 2.258 - Section 2.260) support the CCS7 Incoming Signaling for OSPS feature. For more information on this feature, see Division 2, Section 4A395.

2.258 SS7 SIGNALING

Description: Is the CCS7 Incoming Signaling for OSPS feature activated for this switch? This field specifies whether or not the OSPS is allowed to handle the incoming SS7 signaled calls from the 4ESS Switch.

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This is a secured feature. If "Y" is entered, either the ACT field for SFID 395 must be "Y" on the SFSYS form (5713-1 Record) for this feature, or the ACT field for SFID 288 for AT&T secured features must be "Y".

2.259 ACM INTL TIMER

Description: For SS7 incoming international calls, enter the time delay (in 10 millisecond increments) between

- requesting that an ACM (Address Complete Message) be sent

and

- the initial request to connect an announcement circuit, automated position, or operator position.

Software Release: 5E10 and later.

Required Field.

Default: 1000

Valid Entries: 0 - 5000 (in 10 msec increments)

2.260 ACM DOMESTIC TIMER

Description: For SS7 domestic calls, enter the time delay (in 10 millisecond increments) between

- requesting that an ACM (Address Complete Message) be sent

and

- the initial request to connect an announcement circuit, automated position, or operator position.

Software Release: 5E10 and later.
Required Field.
Default: 100
Valid Entries: 0 - 5000 (in 10 msec increments)

2.261 PLBQ PROMO CARD

Description: Is the PLBQ Business/Residential Card feature activated? The PLBQ PROMO CARD and FULL CARD ENTRY fields were added to support the PLBQ Business/Residential Card feature. For more information on this feature, see Division 2, Section 4A400.

Software Release: 5E10 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PLBQ PROMO CARD equals "Y", then PLBQ2 ON must equal "Y".

PLBQ Business/Residential Promo Card is a secured feature that must be purchased by the office before the PLBQ PROMO CARD field on the OSPSOPT form can be set to "Y". If "Y" is entered, then the ACT field for SFID 288 or SFID 400 must be set to "Y",

2.262 FULL CARD ENTRY

Description: Is the full card number required to be entered to receive CAS (Customer Accounts Services) rate quotes? The PLBQ PROMO CARD and FULL CARD ENTRY fields to support the PLBQ Business/Residential Card feature. For more information on this feature, see Division 2, Section 4A400.

Software Release: 5E10 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If FULL CARD ENTRY equals "Y", then PLBQ2 ON must equal "Y".

QUIET HEAR

The following fields (Section 2.263 - Section 2.268) support the Quiet Hear feature. For more information on this feature, see Division 2, Section 4A402. This is a secured feature, therefore "Y" must be entered in either the ACT field for SFID 402 or SFID 228.

2.263 LEC CARD ALW

Description: Are LEC (Local Exchange Carrier) cards eligible for QH (Quiet Hear) treatment?

Software Release: 5E9(2) and later.
Required Field.
Default: N

Valid Entries: Y, N

2.264 COLLECT COC ALW

Description: Are calls billed with a Collect COC (Class-of-Charge) eligible for QH treatment.

Software Release: 5E9(2) and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.265 THIRD NUMBER COC ALW

Description: Are calls billed with a Third Number COC (Class Of Charge) eligible for QH treatment.

Software Release: 5E9(2) and later.

Required Field.

Default: Y

Valid Entries: Y, N Enter Y for yes or N for no.

2.266 MISC COC ALW

Description: Are calls billed with

Auto Collect

Direct Distance Dialing (DDD)

Hotel Room Number

No Charge

Paid

COC (Class Of Charge)

designations are eligible for QH treatment? This field also defines QH treatment eligibility when external routing occurs without COC.

Software Release: 5E9(2) and later.

Required Field.

Default: Y

Valid Entries: Y, N

2.267 DOM TIMER

Description: Enter the time interval for QH-T1 (Quiet Hear-Timer1). After a request is made to play the Quiet Hear Audio Logo announcement (OSPSTA Header ID 148), which is a branding announcement, this timer determines the length of time (in tenths of seconds) OSPS waits before starting to outpulse a domestic forward number.

Software Release: 5E9(2) and later.

Required Field.

Default: 80

Valid Entries: 0 - 80 tenths of a second.

2.268 INTL TIMER

Description: Enter the time interval for QH-T2 (Quiet Hear-Timer2). After a request is made to play the Quiet

Hear Audio Logo announcement (OSPSTA Header ID 148), which is a branding announcement, this timer determines the length of time (in tenths of seconds) OSPS waits before starting to outpulse an international forward number.

Software Release: 5E9(2) and later.

Required Field.

Default: 80

Valid Entries: 0 - 80 tenths of a second

DIOR NRA

The following fields (Section 2.269 - Section 2.271) define parameters which support the DIOR (Direct International Originations) NRA (Network Remote Access) feature. For more information on this feature, see Division 2, Section 3K on Direct International Origination features.

2.269 NRA RTE IDX

Description: Enter the DIOR Network Remote Access routing index. The destination index (NRA DEST IDX) and route index fields should be populated with the destination and route indexes to be used when routing the DIOR NRA calls to the appropriate NRA toll office.

Software Release: 5E9(2) and later.

Valid Entries:

For 5E13 and earlier: 1 - 3617

For 5E14 and later: Blank, or 1 - 16382

2.270 NRA DEST IDX

Description: Enter the DIOR NRA (Network Remote Access) destination index to be used when routing DIOR NRA calls to the appropriate NRA toll office.

Software Release: 5E9(2) and later.

Valid Entries:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

2.271 DIOR NRA ACT

Description: Is the DIOR (Direct International Originations) NRA (Network Remote Access) feature active?

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If DIOR NRA ACT is "Y", NRA RTE IDX and NRA DEST IDX must both be entered.

TOLL-FREE NPA EXPANSION

The following fields (Section 2.272 - Section 2.274) define the parameters for the 800 Toll Free Service NPA Expansion secured feature. For more information on this feature, see Division 2, Section 4A405.

2.272 DISP AUTO COLLECT

Description: Is AUTO COLLECT automatically displayed at a position for toll-free calls?

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.273 ENF AUTO COLLECT

Description: Is the auto collect portion of the 800 Toll-Free Services NPA Expansion feature enforced?

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then DISP AUTO COLLECT must equal "Y".

2.274 DIOR VMS FWD NBR

Description: Enter the 10-digit forward number to which VMS (Voice Messaging Service) transfers are sent for DIOR or wireless calls.

Software Release: 5E10 and later.

Required Field.

Default: 8005626275

Valid Entries: 10 digits

VMS ACCESS DIALING

The following fields (2.275 - 2.279) define the parameters for the VMS Access Dialing secured feature. For more information on this feature, see Division 2, Section 4A418.

2.275 VMS ACC DIAL

Description: Is the VMS Access Dialing feature activated? When this field is "Y", and the VMS ON field is "Y", then it is activated.

Software Release: 5E10 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When VMS ACC DIAL is Y, VMS ON must be Y.

2.276 VMS AD TIMER

Description: Specifies the interval, in tenths of a second, that OSPS waits for completion of entering an ESP (Enhanced Service Provider) access code.

Software Release: 5E10 and later.

Default: 20

Valid Entries: 10 - 90 tenths of a second

2.277 INTL RING TO

Description: Specifies the ring duration, in seconds, to wait before applying VMS prompt treatment for international non-answered calls.

Software Release: 5E10 and later.

Default: 36

Valid Entries: 0 - 120 seconds

2.278 IMPLCT TRANS

Description: Is the VMS Implicit Transfer feature activated? When this field is set to "Y", the VMS ACC DIAL field is set to "Y" and the IM TR ESP AC field has a valid value set, this feature is activated.

Software Release: 5E10 and later.

Default: N

Valid Entries: Y, N

Data Rules:

When IMPLCT TRANS is "Y", VMS ACC DIAL must be "Y".

When IMPLCT TRANS is "Y", IM TR ESP AC must be entered.

2.279 IM TR ESP AC

Description: Specifies the ESP (Enhanced Service Provider) Access Code to which a call is transferred when the caller has implicitly requested a transfer to VMS.

Software Release: 5E10 and later.

Valid Entries: 0 - 999 or blank

Data Rules:

When the IM TR ESP AC field is entered on the OSPSOPT form, there must be an associated ESPINFO form where ACCESS CODE matches the IM TR ESP AC value.

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5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OPTIONS

*1. OFFICE ID 1

2. OSPS RAF Y

LIST OF FEATURE OPTIONS AND THEIR SCREEN NUMBERS

AATOS/SDN NRA	12	CAS/SP DIAL/SDAP	9,10	LIDB QUERY	8
ACCS	5	COIN TROUBLE	7	LISTING SERVICES	11
ACTS	3	DA	2	MECH	11
AMA	5	DIOR	12	MISC FEATURE ACT	3
AUTO RECONFIGURATION	7	EXTERNAL DB QUERY	4	SUBACCOUNT BILLING	12
BLV	7	HOTEL/MOTEL	5	T&A	2
CALL QUEUE SLOTS	12	ICCV	10	TRS	13
CAMA	7	INTERCEPT	12	VMS	13
CARRIER IDs	7	INTERFLOW	7		

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5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OPTIONS

DA OPTIONS

3. OSPS DA N
 4. DASC VENDOR NONE
 5. RCL LIMIT 0
 6. RCL TIME 0
 7. DABRAND Y

T&A OPTIONS

8. OSPS TA N
 9. DSU2 Q TIME 20
 10. RTRS SM _____
 11. A1 ZONE 0
 12. A2 ZONE 0
 13. EX CONF DN _____
 14. APOS PROTOCOL OFF
 15. ID COIN LINE N

OFFICE TRAFFIC MIX

16. COIN MECH 80
 17. LS QUANTUM 20

ACCS BRANDING TIMERS

18. DOM CALLED NUMBER 80
 19. INTL CALLED NUMBER 80
 20. THANK YOU BRANDING N

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5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OPTIONS

ACTS OPTIONS

30. ACTS N
 31. INI TIMER 11
 32. OVT TIMER 16
 33. INT C TIMER 11
 34. INI RAT FL ANN
 35. EOC RAT FL OPR
 36. LRG CHG THR 060
 37. C TST CALL 9591230

MISC FEATURE ACTIVATION

38. OPER EXT DB Y
 39. LATA MAP N
 40. EXCEPT DETRM Y
 41. ITNA N
 #45. ITNA CHECKS N
 46. INTRAFLOW ALW N
 47. FCA ON N
 48. AUTODACT MON N
 49. AUTO DIOR N
 50. MQ900 N
 54. DIFF CARD ON N
 55. TCS PUB IND N
 56. CDBS SEQ N
 57. BELLCORE ANI N
 58. OSPS INPA N
 59. ALLOW 809 COMPL N
 60. INTRA TO INTER N
 61. TOLL FREE 800 N
 62. DIOR CPS R2 N
 63. BRAND ON ROUTE N
 64. ICS N

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5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS OPTIONS

EXTERNAL DATA BASE QUERY OPTIONS

RATE	77. CC AND BNS SAMPLE SQD 20
69. TIME 4	CC BNS
70. MIN QRY 40	78. TIME 2 83. TIME 2
71. ALARM THR 95	79. MIN QRY 40 84. MIN QRY 40
72. OVLD TIME 1	80. ALARM THR 95 85. ALARM THR 95
	81. OVLD TIME 1 86. OVLD TIME 1
NCD	82. BILL BLOCK N
73. TIME 2	INTL BILL NBR SCREENING
74. MIN QRY 40	87. IBNS CTI OPR
75. ALARM THR 95	
76. STAT N	

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 5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS OPTIONS

HOTEL/MOTEL OPTIONS	ACCS OPTIONS	AMA OPTIONS
100. ACQS SM _____	108. ACCS 1 TANN	114. BCCSC REC N
101. HOBIS/C _____	109. ACCS 2 TONE	115. ACCSQ REC N
102. ACQS TAX Y	110. BRAND PHRASE Y	116. ROUTE REC N
103. DUP HOBIC N	111. INIT THANK YOU Y	117. LSTG SVC REC N
104. HOBIS/C TIME 10	112. SEQ THANK YOU Y	118. SAMPLE N 0
105. HOBIS/C ALARM 100	113. OPER SEQUENCE N	119. INW C REC _____
106. ACQS FAIL N		120. WIRELESS REC N
107. Q CHK TIME 03		

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 5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS OPTIONS

 NAI
 121. TRANS TYPE _____
 122. INDET RPLY A
 123. NAI MIN QRY 40
 124. SUCC QRY 95
 125. NAI CARRID _____
 126. NAI TIMEOUT 20
 127. NAI N

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 5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS OPTIONS

CAMA OPTIONS	CARRIER ID	INTERFLOW
138. ANIF TRBL RPT N	145. ROUTE _____	154. Q DRN TIME 0
139. TRANS OFC N	146. CONF _____	155. OSPS ID 0000
	147. ICOS LEC	156. IFNAME 0000

COIN TROUBLE 148. LSTG SVC _____ . IFTRANSID 121
 140. FRAUD NUM _____ 149. EMER INTER _____
 141. CREDIT NUM _____

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 ospsopt OFFICE DATA ADMINISTRATION
 (5424) OSPS OPTIONS

LINE INFORMATION DATA BASE QUERY OPTIONS

169. CC AND BNS TIME 2

L CC		L BNS		187. INTRA AIBNS N
170. MIN QUERY	40	178. MIN QUERY	40	
171. ALARM THR	95	179. ALARM THR	95	89/CCC (ANSI)
172. ATT INTER	A	180. ATT INTER	A	188. MIN QUERY 40
173. LEC INTER	A	181. LEC INTER	A	189. ALARM THR 95
174. ATT INTRA	A	182. ATT INTRA	A	
175. LEC INTRA	A	183. LEC INTRA	A	QUERY REPLIES
176. DEFAULT	N	184. DEFAULT	N	190. UNR AND NPG E
177. CALLED NBR N		185. IIW INDET DNY N		191. TIMEOUT E
		186. INDET AIBNS A		192. OTHER INDET E

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 ospsopt OFFICE DATA ADMINISTRATION
 (5424) OSPS OPTIONS

CAS		COMMERCIAL CREDIT CARD		CAS RELEASE 3
197. TIME	20	207. CCC ON	N	214. CAS R3 ON N
198. MIN QUERY	40	208. PROMPT TIME	50	215. OFFICE ADMIN ID 0008900
199. ALARM THR	95	209. ZERO TIME OUT	0	216. CCS7 ALARM THR 95
200. CAS ON	N	210. DIGS TIME OUT	50	217. CCS7 MIN QUERY 40
201. INDT BLK	N			218. RECOGNIZE 10P4 N
202. PIN ONLY	Y	ENHANCED CUT-THROUGH		
203. NCD OFF	N	211. ECUT ON	N	CARRIER SPECIFIC ROUTING
204. CON TO OPR	N	212. ECUT TIME	25	219. CSR ON N
205. INCON TO OPR	N	213. ECUT ODO	N	
206. INW VAL ID	N			INMATE CALLING SERVICE
				220. ALLOW COIN HNDLG N

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 ospsopt OFFICE DATA ADMINISTRATION
 (5424) OSPS OPTIONS

CAS CARD LIMIT		NON-ENGLISH ANNC		CARD SPEED DIALING (CSD)
221. PURCHASE LIMIT	N	232. NACC	N	242. ACCESS CODE *7
222. DURATION LIMIT	N	233. MAX LOP	5	243. CBSD ON N
223. VOLUME LIMIT	N			

224. ENHANCED LIMITS	N	ICCV	AUTO PROVISIONING (SDAP)
225. CDM TIME	600	234. CDBS	N 244. SDAP ON N
WARN TIME	30	235. GEO RESTRICT	N 245. DEST IDX ____
227. COURTESY INTERVAL	12	236. CALL DUR CHRG	N 246. SDAP PCN 0
228. MIN REQUERY	120	237. SDR CONV	1 1000
229. PLBQ ON	N	240. CALL SCREENING	N ACCS SPECIAL 10 DIGIT
230. PLBQ2 ON	N	CAS RESTRICTIONS	248. LEC PIN PROMPT N
231. AMA GENERIC DATA	N	241. CDNR CGNR	N 249. TEN DIG TCCC N

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

MECH		LISTING SERVICES
261. FEATURE WORD	N	273. LS FEATURE WORD N
265. PERSON SWITCH	Y	277. COIN PAID TRAF N
266. PERSON COLLECT	Y	278. LS INTER CC N
267. MUTE BK	Y	279. LSCC R2 N
268. MUTE FWD	N	280. MAX DUAL PORT CST ____
269. MECH ANNC	N	281. REC ON TRANS ANNC N
270. MECH BRAND	N	282. REC ON CSAME/CDIFF N
271. REPEAT INTERVAL	8	283. REC ON VERBAL REPT N
272. OFF HOOK WAIT	4	284. REC ON POS RELEASE N
		285. AMA LS SRCH TYPES N

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

INTERCEPT	DIOR SPEED DIALING	DIOR SEQUENCE CALLING
286. INTER CC N	303. DSD SERVICE CODE 14	318. DOM WAIT 36
287. DEST IDX ____		319. INTL WAIT 60
288. AIS DAS ____	SUBACCOUNT BILLING	320. POST COMPL 2
	304. SAB ON N	321. BUSY ANN ACT N
AATOS/SDN NRA (AS)	305. ACCESS CODE 15	322. RNA ANN ACT N
297. AS FEATURE WORD N	306. LEC ALW N	323. UNDEF ANN ACT N
301. SDN CARRIER ____		324. DIOR OTTO ACT N
302. SDN DAS ____	CALL QUEUE SLOTS	
	ACTUAL CQDB	DIOR AUTOMATED CALLING
	REQUIRED CQDB	325. DIOR AIC R3 N
	309. CLAIM CQDB 0	

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

VOICE MESSAGING SERVICE ESP (VMS) CREDIT CHECK AUTO INWRD LINE SCRIN

326. VMS ON	N	333. CREDIT CHECK	N	339. SOFTWARE VERSION	3
327. VMS TIME OUT	20			340. ALLOW TCS	N
328. OSPS OWNER	0	TELEPHONE RELAY SERVICE		341. TIME	20
329. SERVICE CODE	12	334. TRS UNRESTRICTED	60	342. ALARM THRESHOLD	95
		335. TRS RESTRICTED	67	343. MINIMUM QUERY	40
VMS ANNOUNCEMENT PROMPT		336. TRS HOTEL	66		
330. PROMPT ON BUSY	N			AUTO SERVICE ACCESS PROMPT	
331. PROMPT ON RING	N	PRE-PAID OVERTIME COIN		344. ASAP AMA	N
332. RING TIME OUT	36	337. COIN WARNING	0	345. ASAP RTRS	N
		338. ERROR HNDLG	STD		

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OFFICE DATA ADMINISTRATION
OSPS OPTIONS

INCOMING SS7 SIGNALING

346. SS7 SIGNALING	N	354. LEC CARD ALW	N	360. NRA RTE IDX	_____
347. ACM INTL TIMER	1000	355. COLLECT COC ALW	Y	361. NRA DEST IDX	_____
348. ACM DOMESTIC TIMER	100	356. THRD NBR COC ALW	Y	362. DIOR NRA ACT	N
		357. MISC COC ALW	Y		
349. PLBQ PROMO CARD	N	358. DOM TIMER	80	VMS ACCESS DIALING	
350. FULL CARD ENTRY	N	359. INTL TIMER	80	363. VMS ACC DIAL	N
				364. VMS AD TIMER	20
				365. INTL RING TO	36
351. DISP AUTO COLLECT	N			366. IMPLCT TRANS	N
352. ENF AUTO COLLECT	N			367. IM TR ESP AC	_____
353. DIOR VMS FWD NBR	8005626275				

Figure 1 SAMPLE OSPSOPT FORM 5E12 - 5E14 SOFTWARE RELEASES

AND LATERSCREEN 1 OF 14

5ESS Switch

ospsopt
(5424)OFFICE DATA ADMINISTRATION
OSPS OPTIONS

*1. OFFICE ID _____ 2. OSPS RAF Y

LIST OF FEATURE OPTIONS AND THEIR SCREEN NUMBERS

AATOS/SDN NRA	12	CAS/SP DIAL/SDAP	9,10	LIDB QUERY	8
ACCS	5	COIN TROUBLE	7	LISTING SERVICES	11
ACTS	3	DA	2	MECH	11
AMA	5	DIOR	12	MISC FEATURE ACT	3
AUTO RECONFIGURATION	7	EXTERNAL DB QUERY	4	SUBACCOUNT BILLING	12
BLV	7	HOTEL/MOTEL	5	T&A	2
CALL QUEUE SLOTS	12	ICCV	10	TRS	13
CAMA	7	INTERCEPT	12	VMS	13
CARRIER IDs	7	INTERFLOW	7		

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ospsopt
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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

DA OPTIONS		T&A OPTIONS		OFFICE TRAFFIC MIX
3. OSPS DA	N	8. OSPS TA	N	16. COIN MECH 80
4. DASC VENDOR	NONE	9. DSU2 Q TIME	20	17. LS QUANTUM 20
5. RCL LIMIT	0	10. RTRS SM	_____	
6. RCL TIME	0	11. A1 ZONE	0	ACCS BRANDING TIMERS
7. DABRAND	Y	12. A2 ZONE	0	18. DOM CALLED NUMBER 80
		13. EX CONF DN	_____	19. INTL CALLED NUMBER 80
		14. APOS PROTOCOL	OFF	20. THANK YOU BRANDING N
		15. ID COIN LINE	N	

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ospsopt
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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

ACTS OPTIONS		MISC FEATURE ACTIVATION	
21. ACTS	N	29. OPER EXT DB	Y
22. INI TIMER	11	30. LATA MAP	N
23. OVT TIMER	16	31. EXCEPT DETRM	N
24. INT C TIMER	11	32. ITNA	N
25. INI RAT FL	ANN	#33. ITNA CHECKS	N
26. EOC RAT FL	OPR	34. INTRAFLOW ALW	N
27. LRG CHG THR	060	35. FCA ON	N
28. C TST CALL	9591230	36. AUTODACT MON	N
		37. AUTO DIOR	N
		38. MQ900	N
		39. DIFF CARD ON	N
		40. TCS PUB IND	N
		41. CDBS SEQ	N
		42. BELLCORE ANI	N
		43. OSPS INPA	N
		44. ALLOW 809 COMPL	N
		45. INTRA TO INTER	N
		46. TOLL FREE 800	N
		47. DIOR CPS R2	N
		48. BRAND ON ROUTE	N
		49. ICS	N

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ospsopt
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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

EXTERNAL DATA BASE QUERY OPTIONS			
RATE		58. CC AND BNS SAMPLE SQD 20	
50. TIME	4	CC	BNS
51. MIN QRY	40	59. TIME	2
52. ALARM THR	95	60. MIN QRY	40
53. OVLD TIME	1	61. ALARM THR	95
		62. OVLD TIME	1
		63. BILL BLOCK	N
NCD			
54. TIME	2		INTL BILL NBR SCREENING
55. MIN QRY	40		68. IBNS CTI OPR
56. ALARM THR	95		

57. STAT N

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ospsopt
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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

HOTEL/MOTEL OPTIONS

69. ACQS SM _____
70. HOBIS/C _____
71. ACQS TAX Y
72. DUP HOBIC N
73. HOBIS/C TIME 10
74. HOBIS/C ALARM 100
75. ACQS FAIL N
76. Q CHK TIME 03

ACCS OPTIONS

77. ACCS 1 TANN
78. ACCS 2 TONE
79. BRAND PHRASE N
80. INIT THANK YOU Y
81. SEQ THANK YOU Y
82. OPER SEQUENCE N

AMA OPTIONS

83. BCCSC REC N
84. ACCSQ REC N
85. ROUTE REC N
86. LSTG SVC REC N
87. SAMPLE N 0
88. INW C REC _____
89. WIRELESS REC N

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

NAI

90. TRANS TYPE _____
91. INDET RPLY A
92. NAI MIN QRY 40
93. SUCC QRY 95
94. NAI CARRID _____
95. NAI TIMEOUT 20
96. NAI N

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ospsopt
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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

CAMA OPTIONS

97. ANIF TRBL RPT N
98. TRANS OFC N

COIN TROUBLE
99. FRAUD NUM _____
100. CREDIT NUM _____

CARRIER ID

104. ROUTE _____
105. CONF _____
106. ICOS LEC
107. LSTG SVC _____
108. EMER INTER _____

INTERFLOW

113. Q DRN TIME 0
114. OSPS ID 0000
115. IFNAME 0000
. IFTRANSID 151

AUTO RECONFIGURATION

BLV OPTIONS

101. BLV N
102. DIGTREE START 000

ACCS FOR CCC

109. ACCS FOR CCC N
110. DLY ANN INTV 60
111. VIRT CARD TXT _____

117. AUTO RECONFIG N

118. SCHED IFLOW N
119. ICS EIS TIME 60

103. SCREEN IDX _____ 112. DFLT CRD TXT _____ 120. ICS BILL TIME 240

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

LINE INFORMATION DATA BASE QUERY OPTIONS

121. CC AND BNS TIME 2

L CC		L BNS		139. INTRA AIBNS N
122. MIN QUERY	40	130. MIN QUERY	40	
123. ALARM THR	95	131. ALARM THR	95	89/CCC (ANSI)
124. ATT INTER	A	132. ATT INTER	A	140. MIN QUERY 40
125. LEC INTER	A	133. LEC INTER	A	141. ALARM THR 95
126. ATT INTRA	A	134. ATT INTRA	A	
127. LEC INTRA	A	135. LEC INTRA	A	QUERY REPLIES
128. DEFAULT	N	136. DEFAULT	N	142. UNR AND NPG E
129. CALLED NBR N		137. IIW INDET DNY N		143. TIMEOUT E
		138. INDET AIBNS A		144. OTHER INDET E

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ospsopt
(5424)

5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

CAS		COMMERCIAL CREDIT CARD		CAS RELEASE 3
145. TIME	20	155. CCC ON	N	162. CAS R3 ON N
146. MIN QUERY	40	156. PROMPT TIME	50	163. OFFICE ADMIN ID 0008900
147. ALARM THR	95	157. ZERO TIME OUT	0	164. CCS7 ALARM THR 95
148. CAS ON	N	158. DIGS TIME OUT	50	165. CCS7 MIN QUERY 40
149. INDT BLK	N			166. RECOGNIZE 10P4 N
150. PIN ONLY	Y	ENHANCED CUT-THROUGH		
151. NCD OFF	N	159. ECUT ON	N	CARRIER SPECIFIC ROUTING
152. CON TO OPR	N	160. ECUT TIME	25	167. CSR ON N
153. INCON TO OPR	N	161. ECUT ODO	N	
154. INW VAL ID	N			INMATE CALLING SERVICE
				168. ALLOW COIN HNDLG N

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5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS OPTIONS

CAS CARD LIMIT		NON-ENGLISH ANNC		CARD SPEED DIALING (CSD)
169. PURCHASE LIMIT	N	180. NACC	N	190. ACCESS CODE *7
170. DURATION LIMIT	N	181. MAX LOP	5	191. CBSD ON N
171. VOLUME LIMIT	N			

172. ENHANCED LIMITS	N	ICCV	AUTO PROVISIONING (SDAP)
173. CDM TIME	600	182. CDBS	N 192. SDAP ON N
WARN TIME	30	183. GEO RESTRICT	N 193. DEST IDX ____
175. COURTESY INTERVAL	12	184. CALL DUR CHRG	N 194. SDAP PCN 0
176. MIN REQUERY	120	185. SDR CONV	1 1000
177. PLBQ ON	N	188. CALL SCREENING	N ACCS SPECIAL 10 DIGIT
178. PLBQ2 ON	N	CAS RESTRICTIONS	195. LEC PIN PROMPT N
179. AMA GENERIC DATA	N	189. CDNR CGNR	N 196. TEN DIG TCCC N

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 5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS OPTIONS

MECH		LISTING SERVICES
197. FEATURE WORD	N	206. LS FEATURE WORD N
198. PERSON SWITCH	Y	207. COIN PAID TRAF N
199. PERSON COLLECT	Y	208. LS INTER CC N
200. MUTE BK	Y	209. LSCC R2 N
201. MUTE FWD	N	210. MAX DUAL PORT CST ____
202. MECH ANNC	N	211. REC ON TRANS ANNC N
203. MECH BRAND	N	212. REC ON CSAME/CDIFF N
204. REPEAT INTERVAL	8	213. REC ON VERBAL REPT N
205. OFF HOOK WAIT	4	214. REC ON POS RELEASE N
		215. AMA LS SRCH TYPES N

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 5ESS Switch
 OFFICE DATA ADMINISTRATION
 OSPS OPTIONS

INTERCEPT	DIOR SPEED DIALING	DIOR SEQUENCE CALLING
216. INTER CC N	222. DSD SERVICE CODE 14	227. DOM WAIT 36
217. DEST IDX ____		228. INTL WAIT 60
218. AIS DAS ____	SUBACCOUNT BILLING	229. POST COMPL 2
	223. SAB ON N	230. BUSY ANN ACT N
AATOS/SDN NRA (AS)	224. ACCESS CODE 15	231. RNA ANN ACT N
219. AS FEATURE WORD N	225. LEC ALW N	232. UNDEF ANN ACT N
220. SDN CARRIER ____		233. DIOR OTTO ACT N
221. SDN DAS ____	CALL QUEUE SLOTS	
	ACTUAL CQDB	DIOR AUTOMATED CALLING
	REQUIRED CQDB	234. DIOR AIC R3 N
	226. CLAIM CQDB 0	

SCREEN 13 OF 14

ospsopt

 5ESS Switch
 OFFICE DATA ADMINISTRATION

(5424)

OSPS OPTIONS

VOICE MESSAGING SERVICE	ESP (VMS) CREDIT CHECK	AUTO INWRD LINE SCR N
235. VMS ON N	242. CREDIT CHECK N	248. SOFTWARE VERSION 3
236. VMS TIME OUT 20		249. ALLOW TCS N
237. OSPS OWNER 0	TELEPHONE RELAY SERVICE	250. TIME 20
238. SERVICE CODE 12	243. TRS UNRESTRICTED 60	251. ALARM THRESHOLD 95
	244. TRS RESTRICTED 67	252. MINIMUM QUERY 40
VMS ANNOUNCEMENT PROMPT	245. TRS HOTEL 66	
239. PROMPT ON BUSY N		AUTO SERVICE ACCESS PROMPT
240. PROMPT ON RING N	PRE-PAID OVERTIME COIN	253. ASAP AMA N
241. RING TIME OUT 36	246. COIN WARNING 0	254. ASAP RTRS N
	247. ERROR HNDLG STD	

SCREEN 14 OF 14

5ESS Switch

—

ospsopt

OFFICE DATA ADMINISTRATION

(5424)

OSPS OPTIONS

INCOMING SS7 SIGNALING	QUIET HEAR	DIOR NRA
255. SS7 SIGNALING N	263. LEC CARD ALW N	269. NRA RTE IDX _____
256. ACM INTL TIMER 1000	264. COLLECT COC ALW Y	270. NRA DEST IDX _____
257. ACM DOMESTIC TIMER 100	265. THRD NBR COC ALW Y	271. DIOR NRA ACT N
	266. MISC COC ALW Y	
258. PLBQ PROMO CARD N	267. DOM TIMER 80	VMS ACCESS DIALING
259. FULL CARD ENTRY N	268. INTL TIMER 80	272. VMS ACC DIAL N
		273. VMS AD TIMER 20
		274. INTL RING TO 36
260. DISP AUTO COLLECT N		275. IMPLCT TRANS N
261. ENF AUTO COLLECT N		276. IM TR ESP AC _____
262. DIOR VMS FWD NBR 8005626275		

Figure 2 SAMPLE OSPSOPT FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4Z: 5425 RECORD AUTOMATIC CHARGE QUOTATION SERVICE FORM - ACQS

1. GENERAL

The 5425 Record is available with 5E4(2) and later Software Releases.

This record defines the characteristics of an ACQS (Automatic Charge Quotation Service) client. This record must not be entered unless the OSPSOPT form (5425 Record) is submitted and the OSPS TA field on that form is specified as "Y" (Yes).

An ACQS client can be a hotel, hospital, motel, law office, etc. The ACQS client will receive a time and charge quotation upon termination of a call originating from the ACQS client. The quotation will be sent, by the 5ESS Switch OSPS (Operator Services Position System) in one of three manners.

In the first manner, the quote will be electronically transmitted to a HOBIC or HOBIS (Hotel Billing Information Center or System), where an operator will then verbally transmit the information to the ACQS client. This is referred to as a voice quote.

In the second manner, a Network Auto Quote will be electronically transmitted to a HOBIC or HOBIS, where an operator will then verbally transmit the information to the ACQS client. This will appear as a voice quote to the client.

In the third manner, the quote is electronically transmitted directly to the ACQS client over a leased line to a printer or computer. This is referred to as an auto quote.

1.1 Hardware Requirements

The complete hardware requirements for an auto quote system (as opposed to a voice quote system), are explained in Division 3, Section 4L of this document.

The only component of the hardware that is defined on this input form is the analog TEN (Trunk Equipment Number), which defines the analog trunk port that connects to a leased line to a printer or computer at the ACQS client.

1.2 Recent Change View

The corresponding Recent Change view for this form is 26.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and the Office Name on each record.

2.2 * NPA

Description: Enter the NPA of the ACQS client line.

For 5E5 and later, this form contains three key fields and one optional key field. The four fields, NPA, NXX, BEG LINE and END LINE permit the entry of a range of telephone numbers. It is imperative that a single number or a number within a range of numbers is not duplicated as a single number or a number within a range of numbers on another instance of the ACQS input form.

Software Release: 5E5 and later.

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

Data Rules:

For 5E9(1) and later, NPA/NXX assigned on the ACQS form must be defined on the NPAMAP form.

2.3 * NXX

Description: Enter the NXX of the ACQS client line.

Software Release: 5E5 and later.

Required Field.

Valid Entries: 3 digits

2.4 * BEG LINE

Description: Enter the last four digits of the ACQS client line. If a single line is being entered, then the END LINE field should not be entered. If a range of lines is being entered, then the entry in the BEG LINE field is the first member of the range.

Software Release: 5E5 and later.

Required Field.

Valid Entries: 0000 - 9999

2.5 (*) END LINE

Description: If a range of ACQS client lines is being entered, enter the last four digits of the last member of the range.

Software Release: 5E5 and later.

Valid Entries: 0000 - 9999

Data Rules:

If an entry is made in the END LINE field, it must be greater than the entry in the BEG LINE field.

2.6 # QUOTE TN

Description: Enter the 10-digit number used to deliver the time and charge quotation to the ACQS client. The valid entries for this required field are telephone numbers in NPA-NXX-XXXX format.

In the case of a voice quote, this is the number that a HOBIS/HOBIC operator would call to verbally relay time and charge information to the ACQS client.

In the case of auto quote, the QUOTE TN defines the telephone number associated with the analog trunk port defined in the AQUEST TEN field.

The analog trunk port connects the leased line to the printer/computer of the ACQS client. the QUOTE TN is

used internally by the 5ESS Switch software to access the analog trunk port and ensure that the path to the ACQS client is available.

Required Field.

Valid Entries: 10 digits

(See NPA field for NPA codes)

Data Rules:

The QUOTE TN, in both the voice quote and auto quote systems, must be duplicated on every instance of an ACQS input form where the entry in the ACQS NAME field is the same. The ACQS NAME field is an identifier of the ACQS client; every line within the same ACQS client must have the same QUOTE TN. Conversely, different ACQS clients (with different ACQS NAME entries) cannot share the same QUOTE TN.

The QUOTE TN is of special concern in the case of an auto quote system (as opposed to a voice quote system). The following condition applies only when the AUTO QUOTE field is set to "Y", which indicates an auto quote system. The last seven digits of the QUOTE TN must not be duplicated within the 5ESS Switch because the QUOTE TN is associated with a port in the 5ESS Switch. The only exception is the situation stated in the previous paragraph. The duplication of the last seven digits of the QUOTE TN, in the case of a voice quote system, where the AUTO QUOTE field is set to "N", is not of concern because the QUOTE TN is not associated with a port in the 5ESS Switch.

For 5E4(2), if the AUTO QUOTE field is set to "Y" (auto quote system), the last seven digits of the QUOTE TN must not appear in the following fields.

Field	Form	Record
PKT TN	AMLBDSL	5447-1
CKT TN	DSL	5900-1
CKT TN	DSMLHLN	5901-1
PKT TN	DSMLHLN	5901-1
TN	LINE	5109-1
LISTED TN to HIGHEST LISTED TN	MLHG	5110-1
SUBTN (1 to 8)	MLHG	5110-2
TN	MLHLN	5111-1
TN	MTNDR	5550
TN	MULTITN	5114
ACCESS TN	PSMTN	5925
TN (Note 1)	SHTN	5902-1

NOTE: 1: The TN is not the same as the TN in the first row of the SHARED LIST.

For 5E5 and later, the following fields are added to the list. The DSL (5900 Record) and DSMLHLN forms are no longer available.

Field	Form	Record
LOC TN	DFTLSRV	5974
TN (PPB1)	DSL	5907
TN (PPB2)	DSL	5907
CKT TN	DSLUSR	5908
PKT TN	DSLUSR	5908
ODB TN	DSLUSR	5908
MLHG TN (CKT)	DSLUSR	5908
MLHG TN (DPKT)	DSLUSR	5908

If the AUTO QUOTE field on this form is "Y", a NOC form (5501 Record) must exist whose OFFICE CODE matches the fourth through sixth digits of the QUOTE TN, and whose NPA CODE matches the first through third digits of the QUOTE TN.

Every ACQS input form which defines a line for the same ACQS client (the ACQS NAME fields are the same)

and have AUTO QUOTE set to "Y" (an auto quote system) must have the same QUOTE TN and AQUEST TEN combination. This combination of the QUOTE TN and the AQUEST TEN is used by a single ACQS client. Therefore, the QUOTE TN or the AQUEST TEN cannot appear on another ACQS input form with a different ACQS NAME.

Every ACQS input form which defines a line for the same ACQS client (the ACQS NAME fields are the same) and have AUTO QUOTE set to "N" (a voice quote system) must have the same QUOTE TN. Therefore, the QUOTE TN cannot appear on another ACQS input form with a different ACQS NAME.

2.7 # ACQS NAME

Description: Enter the identity of the ACQS client. No special characters are allowed.

Required Field.

Valid Entries: 3 alphanumeric characters

Data Rules:

Every line within the same ACQS client will have the same ACQS NAME.

Two or more ACQS clients must not share the same ACQS NAME.

Every ACQS input form with the same ACQS NAME (same client) must have the identical entry in the following fields: QUOTE TN, TRUE HOTEL, AUTO QUOTE and AQ MSG FORMAT.

For 5E7 and later, less than 1000 telephone numbers may be assigned to an ACQS Auto Quote Client on ACQS forms. If AUTO QUOTE is "Y" on any ACQS form for 5E4(2) - 5E7 or "PRIVATE_LINE", for 5E8 and later (indicating an ACQS private line auto quote), then the number of 10-digit telephone numbers (indicating an ACQS Auto Quote Client), (NPA, NXX, BEG LINE through END LINE) on all ACQS forms with the same ACQS NAME must be less than 1000.

2.8 # TRUE HOTEL

Description: Is the ACQS client in the business of renting lodging on a nightly basis, such as a hotel or motel?

This information will appear in the AMA Record, Table 12 - Service Feature.

Required Field.

Valid Entries: Y, N

2.9 # AUTO QUOTE

Description: Does the ACQS client use an auto quote system? If "N" is entered, a voice quote system is used.

Software Release: 5E5 - 5E7

Required Field.

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the AUTO QUOTE field, then the AQUEST TEN must be specified. If "N" is entered in the AUTO QUOTE field, then an entry is not allowed in the AQUEST TEN field.

If "N" is entered in this field, then the AQ MSG FORMAT field must be set to "OSPS".

2.10 AQEST TEN

Description: Enter the TEN (Trunk Equipment Number) for the analog trunk port that connects to a leased line, which in turn connects to a printer or computer at the ACQS client.

Valid Entries: a 7-digit TEN in the following format.

TEN (TRUNK EQUIPMENT NUMBER)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Trunk Unit	TU	X	0-7
Service Group	SVG	X	0-1
Pack	PACK	X	0-7
Circuit	CKT	X	0-3

Data Rules:

This field must be entered if the AUTO QUOTE field on this input form has been defined as "Y". This field must not be entered if the AUTO QUOTE field on this form has been defined as "N".

The AQEST TEN value must be defined on an EQTUP form (5720 Record), with the corresponding circuit (last digit of AQEST TEN) defined as "O" (operational) in the CKT X EQSTAT field (where X is the circuit number). ACQS TENS that are defined on the EQTUP form (with a CIRCUIT TYPE of "TRKTST") must have a circuit value (the seventh digit of the AQEST TEN) of 0 or 1 (and not 2 or 3).

The 5ESS Switch allows clients a system maximum of 1,000 auto quote clients (as opposed to voice quote).

The entry in this field must be a unique TEN within the 5ESS Switch. It cannot be duplicated in the following fields:

Field	Form	Record
TEN (Note 1)	TRUNK	5204
NUMBER (when OE TYPE = "T")	MLHLN	5111
NUMBER (when OE TYPE = "T")	LINE	5109

NOTE: 1: If the QTY field is greater than 1, consecutive TENS are built for the next (QTY - 1) trunk members.

The AQEST TEN must not be duplicated on other ACQS input forms unless the forms have the same ACQS NAME entry, in which case the duplication is imperative.

2.11 MANUAL PBX

Description: Do either of the following conditions apply to the ACQS client line: a) the call originates through a manual PBX or b) the line is used for administrative calls in some instances and for "guest" calls in other instances? An administrative call does not require a time and charge quotation, whereas a "guest" call (e.g., a call from a hospital patient's room) does require a time and charge quotation.

Default: N

Valid Entries: Y, N

2.12 TRUE BILL TN

Description: Enter the telephone number to be used for billing purposes, if the client line telephone number is not to be used. The telephone number entered in this field will appear on the AMA record.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

For the 5E4(2) Software Release, the TRUE BILL TN entry cannot be the same as the last seven digits in the ACQS TN field.

For 5E5 and later, the TRUE BILL TN, if the first three digits match the entry in the NXX field, must be such that the last four digits do not match the entry in the BEG LINE or END LINE fields, nor any value between the two entries.

For 5E4(2), if a TRUE BILL TN is entered (and the same number will doubtlessly be entered on every ACQS input form with the same ACQS NAME), then another ACQS input form must be entered such that the key field, ACQS TN, is the TRUE BILL TN prefixed by the NPA of the ACQS TN on the ACQS input form where the TRUE BILL TN is entered. Additionally, the ACQS input form that has the TRUE BILL TN as the last seven digits of the key ACQS TN field should have the same QUOTE TN, ACQS NAME, TRUE HOTEL, AUTO QUOTE, AQUEST TEN and AQ MSG FORMAT entries (or no entries) as the original ACQS input form with the TRUE BILL TN. Finally, the TRUE BILL TN field should not be entered.

For 5E5 and later, if a TRUE BILL TN is entered (and the same number will doubtlessly be entered on every ACQS input form with the same ACQS NAME), then another ACQS input form must be entered such that: a) the NPA entry is the same as the NPA entry on the form with the TRUE BILL TN field, b) the NXX field is the first three digits of the TRUE BILL TN, c) the BEG LINE field is the last four digits of the TRUE BILL TN, and d) the END LINE field does not have an entry. Additionally, the "extra" ACQS input form that was built with keys from the TRUE BILL TN must have the same QUOTE TN, ACQS NAME, TRUE HOTEL, AUTO QUOTE, AQUEST TEN and AQ MSG FORMAT entries (or no entries) as the original ACQS input form with the TRUE BILL TN. Finally, the TRUE BILL TN field should not be entered.

This additional ACQS input form that is submitted because of the presence of a TRUE BILL TN has no restrictions placed upon the entry in the MANUAL PBX field. It is possible that an ACQS client will have a mixture of ACQS input forms where some have an entry of "N" in the MANUAL PBX field and some have an entry of "Y". The choice of entry for the MANUAL PBX field in this additional ACQS input form requires some further explanation on the use of the MANUAL PBX field.

If "N" is entered in the MANUAL PBX field, then the call will be treated as a hotel seizure. If a number is entered in the TRUE BILL TN field on this input form, then that number will be displayed to the OSPS operator in the BACK NUMBER portion of the display.

If "Y" is entered in the MANUAL PBX field, then the call will be treated as a non-coin seizure and there will be no hotel identification associated with the call. The original ANI (Automatic Number Identification) will be displayed for the OSPS operator. If the call is announced by the ACQS client operator, the call will be treated as a hotel seizure via the OSPS operator depressing the HOTEL ROOM NUMBER key or depressing the BILLING CODE key and entering "GUEST" or "GST". If a number is entered in the TRUE BILL TN field, then that number will be displayed to the OSPS operator. All normal hotel practices will then apply.

If the ACQS client uses a true billing number and has a mixture of lines, where one subset has MANUAL PBX set to "Y" and the other subset has MANUAL PBX set to "N", then the following call processing conditions, in the event of an ANI failure or ONI (Operator Number Identification) failure, must be considered. If MANUAL PBX is set to "Y" in the form for the true billing number, calls will be treated as non-coin seizures; conversely, if MANUAL PBX is set to "N", calls will be treated as hotel seizures.

If the ACQS client does not use a true billing number, then in the event of an ANI or ONI failure, the aforementioned call processing conditions will be applied based on the MANUAL PBX entry associated with the individual line.

When the ACQS client does not have a mixture of MANUAL PBX entries for their lines, but does use a true billing number, the client should have the same value for MANUAL PBX as appears on the other ACQS input forms for that client.

For 5E12 and later, when a TRUE BILL TN is entered on an ACQS form, it must also be defined on another ACQS form where the:

- NPA equals the first three digits of the TRUE BILL TN
- NXX equals the next three digits of the TRUE BILL TN
- BEG LINE equals the last four digits of the TRUE BILL TN

The END LINE and TRUE BILL TN fields must not be entered on this ACQS form. The QUOTE TN, ACQS NAME, TRUE HOTEL, AUTO QUOTE, AQEST TEN, and AQ MSG FORMAT fields must have the same values or not have entries as on the previous form.

2.13 AQ MSG FORMAT

Description: If "Y" (Yes) is entered in the AUTO QUOTE field, then enter an autoquote message format for the ACQS client. The entry has significance only in the case of an auto quote system, which receives a printed time and charge quotation. A voice quote system receives the time and charge quotation verbally from the HOBIS/HOBIC.

Default: OSPS

Valid Entries:

Valid AQ MSG FORMAT Entries	
Entry	Definition
OSPS	Operator Services Position System.
1BT2	Corresponds to the TSPS (Traffic Service Position System) generic 1BT2 format.
TSPS	Corresponds to the TSPS format used prior to generic 1BT2.

The OSPS ACQS interface avoids requiring replacement of existing auto quote TTY equipment. A comprehensive discussion of ACQS message formats is available in a document entitled "5ESS Switch Interface Specifications Required for the AUTO QUOTE Service for Hotel/Motel Feature," which is available from the Customer Information Center (using the ordering number 5D5-900-500).

The following tables present examples of each format type.

TSPS Format Example	
123A ABC 06/30 12345 18:15 0028 \$004.50 212-345-6789 X	
123A	The sequence number of the message for this ACQS; "A" identifies the TSPS buffer. The number portion will be replaced by "****" when the message cannot be sent to the ACQS directly (due to AQ TTY problems) and will be sent to a HOBIS/HOBIC.
ABC	The client account acronym.
06/30	The date of the call.
12345	The room number or client number.
18:15	The clock time (hours and minutes - 24-hour basis) at which chargeable conversation started.
0028	The elapsed, chargeable conversation time (minutes).
\$004.50	The charge for the call.
212-345-6789	The called telephone number; always 10 digits.
X	The special call identifier; "D" is directory assistance; "V" is a verification call; "F" is an international call; "L"

is a local call; "T" is a domestic toll call. An asterisk (*) will follow the letter when the message cannot be sent to the ACQS directly (due to AQ TTY paper change state) and will be sent to HOBIS/HOBIC.

1BT2 Format Example

C 123A ABC 06/30 12345 18:15:32 0028:36 \$004.50 212-345-6789 X	
C	The carrier identifier. An "A" indicates AT&T-C, a "B" indicates a Bell Operating Company, (or an independent operating company), and a "U" indicates unknown.
123A	The sequence number of the message for this ACQS; "A" identifies the TSPS buffer. The number portion will be replaced by "*****" when the message cannot be sent to the ACQS directly (due to AQ TTY problems) and will be sent to a HOBIS/HOBIC. The number portion will be replaced by "###" when an end-of-call rating failure occurs. The time and charge must be voice quoted.
ABC	The client account acronym.
06/30	The date of the call.
12345	The room number or client number.
18:15:32	The clock time (hours, minutes and seconds - 24-hour basis) at which chargeable conversation started.
0028:36	The elapsed, chargeable conversation time (minutes and seconds).
\$004.50	The charge for the call. In the event of an end-of-call rating failure, the dollar amount will be "\$SSS.SS" or "\$PPP.PP" for station and person calls, respectively.
212-345-6789	The called telephone number; always 10 digits.
X	The special call identifier; "D" is directory assistance; "V" is a verification call; "F" is an international call; "L" is a local call; "T" is a domestic toll call. An asterisk (*) will follow the letter when the message cannot be sent to the ACQS directly (due to AQ TTY paper change state) and will be sent to HOBIS/HOBIC.

OSPS Format Example**5E9(1) and later**

0288 123C ABC 06/30 1234567890 18:15:32 0028:36 \$004.50 212-345-6789 X	
0288	The identification of the interLATA carrier, Bell Operating Company or independent operating company. "0288" indicates AT&T-C, "0000" indicates a Bell Operating Company, (or an independent operating company), while any other value indicates any other interLATA carrier.
123C	The sequence number of the message for this ACQS. If "C" is filled by the letter "A", this indicates that the voice quote number is known. If "C" is filled by the letter "X", this indicates that the voice quote number is unknown, and that the ACQS calling number will be substituted. The number portion will be replaced by "*****" when the message cannot be sent to the ACQS directly (due to AQ TTY problems) and will be sent to a HOBIS/HOBIC. The number portion will be replaced by "###" when an end-of-call rating failure occurs. The time and charge must be voice quoted.
ABC	The client account acronym.
06/30	The date of the call.
1234567890	The room number or client number.
18:15:32	The clock time (hours, minutes and seconds - 24-hour basis) at which chargeable conversation started.
0028:36	The elapsed, chargeable conversation time (minutes and seconds).
\$004.50	The charge for the call. In the event of an end-of-call rating failure, the dollar amount will be "\$SSS.SS" or "\$PPP.PP" for station and person calls, respectively.
212-345-6789	The called telephone number; always 10 digits.
X	The special call identifier; "D" is directory assistance; "V" is a verification call; "F" is an international call; "L" is a local call; "T" is a domestic toll call. An asterisk (*) will follow the letter when the message cannot be sent to the ACQS directly (due to AQ TTY paper change state) and will be sent to HOBIS/HOBIC.

OSPS Format Example**5E8 and later**

288 123C ABC 06/30 1234567890 18:15:32 0028:36 \$004.50 212-345-6789 X	
288	The identification of the interLATA carrier, Bell Operating Company or independent operating company. "288" indicates AT&T-C, "000" indicates a Bell Operating Company, (or an independent operating company), while any other value indicates any other interLATA carrier.
123C	The sequence number of the message for this ACQS. If "C" is filled by the letter "A", this indicates that the voice quote number is known. If "C" is filled by the letter "X", this indicates that the voice quote number is unknown, and that the ACQS calling number will be substituted. The number portion will be replaced by "*****" when the message cannot be sent to the ACQS directly (due to AQ TTY problems) and will be sent to a HOBIS/HOBIC. The number portion will be

	replaced by "###" when an end-of-call rating failure occurs. The time and charge must be voice quoted.
ABC	The client account acronym.
06/30	The date of the call.
1234567890	The room number or client number.
18:15:32	The clock time (hours, minutes and seconds - 24-hour basis) at which chargeable conversation started.
0028:36	The elapsed, chargeable conversation time (minutes and seconds).
\$004.50	The charge for the call. In the event of an end-of-call rating failure, the dollar amount will be "\$SSS.SS" or "\$PPP.PP" for station and person calls, respectively.
212-345-6789	The called telephone number; always 10 digits.
X	The special call identifier; "D" is directory assistance; "V" is a verification call; "F" is an international call; "L" is a local call; "T" is a domestic toll call. An asterisk (*) will follow the letter when the message cannot be sent to the ACQS directly (due to AQ TTY paper change state) and will be sent to HOBIS/HOBIC.

Data Rules:

For 5E5 - 5E7 if "N" is entered in the AUTO QUOTE field, or for 5E8 and later, "PRIVATE_LINE" is entered in the QUOTE TYPE field, the entry in the AQ MSG FORMAT field must be "OSPS".

2.14 QUOTE TYPE

Description: QUOTE TYPE describes how the ACQS (Automatic Charge Quotation Service) transmits the time and charge information for toll calls made by a party of the client.

Software Release: 5E8 and later.

Default: VOICE

Valid Entries:

Valid QUOTE TYPE Entries	
Entry	Definition
NETWORK or N	Network Autoquote - the 5ESS Switch transmits the time and charge data to a HOBIS (Hotel Billing Information System). An individual at the HOBIS then dials up a connection to a printer in the ACQS establishment and prints the charge information on the printer. This field is provided by a secured feature.
PRIVATE_LINE or P	Private Line Autoquote - the 5ESS Switch transmits the time and charge data.
FAX or F	FAX quote - the HOBIS transmits the time and charge data via FAX. This field is provided by a secured feature.
VOICE or V	Voice quote - the 5ESS Switch transmits the time and charge data to the HOBIS/HOBIC and then verbally forwards the data to the client.

Data Rules:

If "PRIVATE_LINE" is entered in the QUOTE TYPE field, then the AQEST TEN must be specified. If "PRIVATE_LINE" is NOT entered in the QUOTE TYPE field, then an entry is not allowed in the AQEST TEN field.

If QUOTE TYPE is not "PRIVATE_LINE", then AQ MSG FORMAT must be "OSPS".

If TNs have assigned the NPA, NXX, BEG LINE and optionally END LINE field, and the QUOTE TYPE field is equal to "PRIVATE_LINE"; then the corresponding QUOTE TN requires that the NPA CODE and OFFICE CODE fields on a NOC form match the NPANXX of the QUOTE TN.

"FAX" and "NETWORK" enumerations are provided by a secured feature, therefore, SFID 82 must be set to "Y" on the SFSYS form (5713-1 Record) before these enumerations may be entered.

acqs	5ESS Switch	—
(5425)	OFFICE DATA ADMINISTRATION	
	OSPS AUTOMATIC CHARGE QUOTATION SERVICE	
*1. NPA	312	
*2. NXX	444	
*3. BEG LINE	2000	
(*) 4. END LINE	2019	
#5. QUOTE TN	3126781000	
#6. ACQS NAME	ABC	
#7. TRUE HOTEL	Y	
#8. AUTO QUOTE	Y	
9. AQEST TEN	0033123	
10. MANUAL PBX	N	
11. TRUE BILL TN	4442050	
12. AQ MSG FORMAT	OSPS	

Figure 1 SAMPLE ACQS FORM 5E8 THROUGH 5E11 SOFTWARE RELEASES

acqs	5ESS Switch	—
(5425)	OFFICE DATA ADMINISTRATION	
	OSPS AUTOMATIC CHARGE QUOTATION SERVICE	
*1. NPA	312	
*2. NXX	444	
*3. BEG LINE	2000	
(*) 4. END LINE	2019	
#5. QUOTE TN	3126781000	
#6. ACQS NAME	ABC	
#7. TRUE HOTEL	Y	
8. AQEST TEN	0033123	
9. MANUAL PBX	N	
10. TRUE BILL TN	4442050	
11. AQ MSG FORMAT	OSPS	
12. QUOTE TYPE	VOICE	

Figure 2 SAMPLE ACQS FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 4AA: 5426 RECORD NPA TIME ZONES FORM - TMZN

1. GENERAL

The 5426 Record is available with 5E4(2) and later Software Releases.

This form should not be submitted unless the OSPS TA field on the OSPSOPT form (5424 Record) has been specified as "Y" (Yes).

This record defines the time zones in which the majority of NXXs within an NPA (Numbering Plan Area) reside. It is used in conjunction with any real time rated calls such as ACQS (Automatic Charge Quotation Service), and any RTRS (Real Time Rating System) or CFR (Centralized Flexible Rating) system. The time zone is expressed relative to the time zone in which the OSPS (Operator Services Position System) resides.

Advance planning is critical before completing the TMZN and NXXZN forms. An NPA which spans multiple time zones must be flagged. Each NXX within that NPA, which is not in the majority time zone, must be defined on the NXXZN form (5427 Record).

The correct choice for a MAJORITY ZONE will greatly reduce the number of NXXZN forms to be completed.

The OSPSOPT form A1 ZONE and A2 ZONE fields are used to specify a time difference between the 5ESS Switch OSPS time and A1 ZONE or A2 ZONE time. The difference can be a maximum of two hours.

These three different time zones should be carefully used to prevent numerous future NXXZN recent change exercises.

1.1 Four Planning Cases

There are four planning cases to consider, representing the possible combinations of the following variables:

- The NPA is entirely within a single time zone or the NPA spans two time zones.
- Every NXX in the NPA reacts to Daylight Savings Time in the same manner (all use Daylight Savings or all don't), or some NXXs in an NPA use Daylight Savings Time and some NXXs don't.

The first case is an NPA where every NXX is in the same time zone and every NXX uses Daylight Savings Time in a like manner. All the NXXs thus comprise a single set, with each NXX at the same time throughout the calendar year. The OSPSOPT form A1 ZONE or A2 ZONE would be referenced only if the NPA's time zone differed from the 5ESS Switch OSPS time zone. The NXXZN form would not be used because every NXX is in the MAJORITY ZONE.

The second case is an NPA that spans two time zones and every NXX uses Daylight Savings Time in a like manner. The NXXs thus comprise two distinct sets, each in a different time zone. The MAJORITY ZONE should represent the larger of the two sets. If one set of NXXs is in the same time zone as the 5ESS Switch OSPS, then the OSPSOPT form A1 ZONE field would be referenced to express the time difference relative to the 5ESS Switch OSPS time for the second set of NXXs. If both sets of NXXs are not in the same time zone as the 5ESS Switch OSPS, then the OSPSOPT form A1 ZONE and A2 ZONE fields would be referenced to express the time differences relative to the 5ESS Switch OSPS time. An NXXZN form would be used to indicate the time zone for each NXX that is not in the MAJORITY ZONE.

The third case is an NPA where every NXX is in the same time zone, but the NXXs do not use Daylight

Savings Time in a like manner. The NXXs comprise two distinct sets, one which uses Daylight Savings Time and one which does not. The MAJORITY ZONE should represent the larger of the two sets. The OSPSOPT form A1 ZONE and/or A2 ZONE fields could be used for either or both of the following purposes.

- To define a time zone if the NPA's MAJORITY ZONE differs from the 5ESS Switch OSPS time.
- To define a time zone for the smaller subset of NXXs which use Daylight Savings Time in a like manner.

An NXXZN form would be used to indicate the time zone for each NXX that is not in the MAJORITY ZONE. Thus, when the Daylight Savings Time change took place, the smaller set of NXXs would not have to be respecified through NXXZN Recent Change, but rather the A1 ZONE or A2 ZONE variables.

The fourth case is an NPA where the NXXs are in different time zones and the NXXs do not use Daylight Savings Time in a like manner. The MAJORITY ZONE should be the largest subset of NXXs that are in the same time zone all year (treating Daylight Savings Time in the same manner). The OSPSOPT form A1 ZONE and/or A2 ZONE fields could be used for the following purposes.

- To define a time zone if the NPA's MAJORITY ZONE differs from the 5ESS Switch OSPS time.
- To define a time zone for a subset of NXXs not in the MAJORITY ZONE and/or subset of NXXs which do not treat Daylight Savings Time in the same manner as the majority.

An NXXZN form would be used to indicate the time zone for each NXX that is not in the MAJORITY ZONE time zone. Thus, when the Daylight Savings Time change took place, the set of NXXs that are not in the majority time zone would not have to be re-entered, but rather, the A1 ZONE or A2 ZONE variable(s) could be changed.

1.2 Recent Change View

The corresponding Recent Change view for this form is 26.14.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * NPA

Description: Enter the NPA of the back number requesting time and charges (served by this OSPS).

Required Field.

Valid Entries:

For 5E4(2) - 5E7: 200 - 919, middle digit 0 -1

For 5E8: 100 - 919, middle digit 0 - 1

For 5E9(1) and later: 100 - 999

Data Rules:

Entries in the NPA field must also be entered in the ORIG NPA field of the OPRTK form (5417 Record) or as TRUE NPA on the PRONXX form (5413 Record).

2.3 # MAJORITY ZONE

Description: Enter the time zone in which the majority (or all) of the NXXs in this NPA reside (defines the time difference compared to OSPS system time).

Required Field.

Valid MAJORITY ZONE Entries	
Entry	Definition
PRI	Primary Time Zone. This is the same time as the 5ESS Switch (OSPS time).
ALT1	Alternate Time Zone 1. This indicates that the zone defined in the A1 ZONE field of the OSPSOPT form will be used.
ALT2	Alternate Time Zone 2. This indicates that the zone defined in the A2 ZONE field of the OSPSOPT form will be used.

2.4 # ADDL ZONES

Description: Does the NPA cover more than one time zone?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the ADDL ZONES field, time zone entries are required (for this NPA) on the NXXZN form on a per-NXX basis.

tmzn	5ESS Switch	—
(5426)	OFFICE DATA ADMINISTRATION	
	OSPS NPA TIME ZONES	

*1. NPA	219
#2. MAJORITY ZONE PRI	
#3. ADDL ZONES	Y

Figure 1 SAMPLE TNZN FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AB: 5427 RECORD NXX OUTSIDE OF MAJORITY TIME ZONE FORM - NXXZN

1. GENERAL

The 5427 Record is available with 5E4(2) and later Software Releases.

This record should not be entered unless the OSPS TA field on the OSPSOPT form (5424 Record) has been specified as "Y" (Yes). This record defines the time zone for each NXX which does not reside in the majority time zone (that was specified for the NPA on the TMZN form (5426 Record)).

Please refer to the general section in the TMZN Form for useful information and strategy regarding defining time zones.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * NPA

Description: Enter the Numbering Plan Area of the back number requesting time and charges (NPA served by this OSPS).

Required Field.

Valid Entries: For 5E4(2) - 5E7: 200 - 919, middle digit 0 - 1

For 5E8: 100 - 919, middle digit 0 - 1

For 5E9(1) and later: 100 - 999

Data Rules:

The ADDL ZONES field must be marked "Y" on the TMZN form for each NPA entered in this field.

2.3 * NXX

Description: Enter the NXX that does not exist in the MAJORITY ZONE field of the TMZN form. If an NXX is not found here, the TMZN form time zone will be used.

Required Field.

Valid Entries: 000 - 999

2.4 # ZONE

Description: Enter the non-majority time zone.

Required Field.

|

Valid ZONE Entries	
Entry	Definition
PRI	Primary Time Zone. This is the same time as the 5ESS Switch (OSPS time).
ALT1	Alternate Time Zone 1. This indicates that the zone defined in the A1 ZONE field of the OSPSOPT form will be used.
ALT2	Alternate Time Zone 2. This indicates that the zone defined in the A2 ZONE field of the OSPSOPT form will be used.

[illegible]

```
*1.  NPA  219
*2.  NXX  387
#3.  ZONE ALT1
```

Figure 1 SAMPLE NXXZN FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AC: 5428 RECORD OSPS ACCS SPECIAL TREATMENT TABLE FORM - ACCST

1. GENERAL

The 5428 Record is available with 5E4(2) and later Software Releases.

This record defines 10-digit telephone numbers that require ACCS (Automated Calling Card Service) special treatment.

When a 0+ call is received at an OSPS (Operator Services Position System), if the call is not screened against calling card service, the ACCST form is checked, based on the calling (back) NPA-NXX entered, to determine the handling of the call. Possible values in the ACCST form include route the call to an operator, provide a tone to the caller or provide tone and announcement to the caller.

If the calling number is not found in the ACCST form, "default" treatment is applied to the call depending on the type of originating station.

Each ACCST form that is submitted must have a corresponding NPAMAP form (5414 Record). The two forms' NPA/NXX entries must match.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.40.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the office name on each record.

2.2 * TN

Description: Enter a valid 10-digit telephone number of the format NPANXXXXXX. For 5E4(2) - 5E8 NPA format is 200 - 919 where the middle digit can be only 0 - 1. For 5E9(1) and later, the NPA format is 200 - 999.

Required Field.

Valid Entries: 10 digits

2.3 # PROMPT TREATMENT

Description: Enter the initial prompt that a customer will encounter on an ACCS call.

Normally, the initial prompt that a customer will hear is controlled by an entry on the OSPSOPT form (5424 Record). The ACCS CL1 field is used for coin and hotel/motel lines, while the ACCS CL2 field is used for all other types of service.

The ACCST form is used to override the OSPSOPT form treatment on a per-telephone number basis.

Required Field.

Valid PROMPT TREATMENT Entries	
Entry	Definition
OP	Routes the call to an OSPS position.

TANN	Routes the call to an announcement. (Digital ServicesUnit 2 - Recorded Announcement Function (DSU2-RAF) - DTA)treatment.
TONE	Routes the call to a tone.

accst 5ESS Switch
(5428) OFFICE DATA ADMINISTRATION
OSPS ACCS SPECIAL TREATMENT TN

```
*1.  TN          3125104647
#2.  PROMPT TREAT TANN
```

Figure 1 SAMPLE ACCST FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AD: 5429 RECORD OSPS ACCS RESTRICTED SEQUENCE TN FORM - SEQUEST

1. GENERAL

The 5429 Record is available with 5E4(2) and later Software Releases.

This record is used to assign 3-, 7-, and 10-digit telephone numbers that cannot be accessed with ACCS (Automatic Calling Card Service) as an automated sequence call. For 5E5 and later Software Releases, the option is offered to disallow the number to be a forward number for an ACCS sequence call or for a Subaccount Billing sequence call.

ACCS (Automated Calling Card Service) customers can be restricted from calling certain numbers when dialing ACCS sequence calls. This applies to both LEC (Local Exchange Carrier) and CAS (Customer Account Services) cards.

Subaccount Billing is a new feature introduced in the 5E5 Software Release. This form allows for restriction of this feature for certain forward numbers when dialed as a sequence call.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group number and the Office Name on each record.

2.2 * RESTRICTED TN

Description: Enter the 3-, 7-, or 10-digit restricted telephone number. For example, an entry of 500 restricts all 500-XXX-XXXX. NPA5551212 restricts all 5551212 numbers where an NPA was dialed.

Required Field.

Valid Entries: 411

500

5551212

611

700

800,

811, 822, 833, 844 (5E10 and later)

855, 866, 877, 888, 899 (5E10 and later)

900

911

NPA5551212 (for all NPAs)

Data Rules:

For 5E10 and later, if any number is not one of the following:

411

611

500
5551212
700
800
900
911
NPA5551212 (where NPA is any NPA),

then INWATS NPA must be entered on a corresponding INWNPA form matching the RESTRICTED TN entry.

2.3 # ACCS

Description: Can this directory number be a forward number for an ACCS (Automated Calling Card Service) sequence call?

Software Release: 5E5 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.4 SUBACCT BILL

Description: Can this directory number be a forward number for a Subaccount Billing sequence call?

Software Release: 5E5 and later

Required Field.

Default: Y

Valid Entries: Y, N

sequest	5ESS Switch	—
(5429)	OFFICE DATA ADMINISTRATION	
	OSPS BILLING RESTRICTED SEQUENCE TN	

*1. RESTRICTED TN NPA5551212
#2. ACCS N
3. SUBACCT BILL Y

Figure 1 SAMPLE SEQUEST FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AF: 5431 RECORD DIOR EIGHT HUNDRED NUMBER PROVISIONING - DEHNP

1. GENERAL

The 5431 Record is available with the 5E9(1) and later Software Releases. The DIOR Eight Hundred Number Provisioning form specifies the countries from which DIOR (Direct International Originations) calls to 800 numbers have the international leg of the call billed to the caller, billed to the 800 number, or are denied completion. This form supports the DIOR Toll-Free 800 feature, for more information on this feature see Division 2, Section 3K.

Each OFFICE CODE must be pre-assigned to an SM on the DEHOCSM form.

Each entry in the CAC field of the CODELIST must be pre-defined as an IDDD CAC on the OSPS Country Number to Country Name Mapping form, CCNAME.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.85.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INWATS NPA

Description: Enter the NPA of an INWATS (Inward Wide Area Telecommunications Service) number. This field was added to support the Toll-Free NPA Expansion feature. This feature allows new toll-free NPAs to be assigned as INWATS NPAs (with the current exhaustion of 800 numbers). For more information on provisioning the secured feature Toll-Free NPA Expansion, see Division 2, Section 4A405.

Software Release: 5E10 and later

Required Field.

Default: 800

Valid Entries: 100 - 999.

Data Rules:

For each DEHNP form entered, there must be a corresponding DEHOCSM form where the following is found:

- INWATS NPA entries must match
- OFFICE CODE entries must match
- FEATURE on the DEHOCSM form must be "TF8"

2.3 * OFFICE CODE

Description: Enter the office code (NXX) of an 800 number.

Required Field.

Valid Entries: 200 - 999

Data Rules:

See Data Rule for INWATS NPA.

2.4 * LINE NUMBER

Description: Enter the line number of an 800 number.

Required Field.

Valid Entries: 0000 - 9999

2.5 ALL TRMT

Description: Enter the billing treatment to be used on the international leg of an 800 number call from any country code that is not entered in the CAC field of the CODELIST list below.

Required Field.

Default: CALLER

Valid Entries:

Valid ALL TRMT Entries	
Entry	Definition
CALLER	Caller pays for the international leg of the call.
DENIED	800 number does not accept calls from any international origin
EHPAID	800 number pays for the international leg of the call.

Data Rules:

If "CALLER" is entered then:

CODELIST TRMT cannot be "CALLER"

CODELIST must have at least one entry

If "DENIED" is entered, then CODELIST TRMT cannot be "DENIED".

If "EHPAID" is entered, then CODELIST TRMT cannot be "EHPAID".

COUNTRY CODE TREATMENT LIST (CODELIST)

The following fields (Section 2.6 - Section 2.8) assigns the 800 number treatment for the IDDD (International Direct Distance Dialing) CAC (Country Access Codes).

2.6 CAC

Description: Enter the IDDD Country Access Code that is to have a billing treatment that is different from the treatment specified in the ALL TRMT field.

Valid Entries: 1 - 999

Data Rules:

CAC cannot be 0.

The combination of CAC and NXX entries must be unique.

If CAC is entered, then CODELIST TRMT and NXX must be entered. Conversely, if CAC is not entered then

CODELIST TRMT and NXX cannot be entered.

When an CAC value is entered in the COUNTRY CODE TREATMENT LIST on this form, a corresponding CCNAME form must exist where the CAC and NXX combination entries match the combination of IDDD CAC and IS 809 NXX entries on the CCNAME form (5463 Record).

2.7 TRMT

Description: Enter the billing treatment to be used on the international leg of an 800 number call from the country code specified in the CAC field.

Valid CODELIST TRMT Entries	
Entry	Definition
CALLER	Caller pays for the international leg of the call.
DENIED	800 number does not accept calls from any international origin
EHPAID	800 number pays for the international leg of the call.

2.8 NXX

Description: Is the country code specified in the CAC field an NXX for the 809 country code?

Valid Entries: Y, N

Data Rules:

The CAC and NXX combination must be pre-defined using the IDDD CAC and IS 809 NXX fields on the OSPS Country Number to Country Name Mapping CCNAME form (5461 Record).

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5ESS Switch

dehnp

OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

*1. OFFICE CODE ____

*2. LINE NUMBER ____

3. ALL TRMT CALLER

4. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NX
X															
1	____	_____	—	7	____	_____	—	13	____	_____	—	19	____	_____	—
2	____	_____	—	8	____	_____	—	14	____	_____	—	20	____	_____	—
3	____	_____	—	9	____	_____	—	15	____	_____	—	21	____	_____	—
4	____	_____	—	10	____	_____	—	16	____	_____	—	22	____	_____	—
5	____	_____	—	11	____	_____	—	17	____	_____	—	23	____	_____	—
6	____	_____	—	12	____	_____	—	18	____	_____	—	24	____	_____	—

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5ESS Switch

dehnp

OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

4. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NX
X															
25	___	___	—	35	___	___	—	45	___	___	—	55	___	___	—
26	___	___	—	36	___	___	—	46	___	___	—	56	___	___	—
27	___	___	—	37	___	___	—	47	___	___	—	57	___	___	—
28	___	___	—	38	___	___	—	48	___	___	—	58	___	___	—
29	___	___	—	39	___	___	—	49	___	___	—	59	___	___	—
30	___	___	—	40	___	___	—	50	___	___	—	60	___	___	—
31	___	___	—	41	___	___	—	51	___	___	—	61	___	___	—
32	___	___	—	42	___	___	—	52	___	___	—	62	___	___	—
33	___	___	—	43	___	___	—	53	___	___	—	63	___	___	—
34	___	___	—	44	___	___	—	54	___	___	—	64	___	___	—

SCREEN 3 OF 4

5ESS Switch

dehnp

OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

4. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NX
X															
65	___	___	—	75	___	___	—	85	___	___	—	95	___	___	—
66	___	___	—	76	___	___	—	86	___	___	—	96	___	___	—
67	___	___	—	77	___	___	—	87	___	___	—	97	___	___	—
68	___	___	—	78	___	___	—	88	___	___	—	98	___	___	—
69	___	___	—	79	___	___	—	89	___	___	—	99	___	___	—
70	___	___	—	80	___	___	—	90	___	___	—	100	___	___	—
71	___	___	—	81	___	___	—	91	___	___	—	101	___	___	—
72	___	___	—	82	___	___	—	92	___	___	—	102	___	___	—
73	___	___	—	83	___	___	—	93	___	___	—	103	___	___	—
74	___	___	—	84	___	___	—	94	___	___	—	104	___	___	—

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5ESS Switch

dehnp

OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

4. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NX
X															
105	___	___	—	111	___	___	—	117	___	___	—	123	___	___	—
106	___	___	—	112	___	___	—	118	___	___	—	124	___	___	—

107	_____	—	113	_____	—	119	_____	—	125	_____	—
108	_____	—	114	_____	—	120	_____	—	126	_____	—
109	_____	—	115	_____	—	121	_____	—	127	_____	—
110	_____	—	116	_____	—	122	_____	—			

Figure 1 SAMPLE DEHNP FORM 5E9(1) - 5E9(2) SOFTWARE RELEASES

SCREEN 1 OF 4
dehnp
(5431)

5ESS Switch
OFFICE DATA ADMINISTRATION
DIOR EIGHT HUNDRED NUMBER PROVISIONING

```
*1. INWATS NPA 800
    4. ALL TRMT CALLER
*2. OFFICE CODE ____
*3. LINE NUMBER ____
```

5. COUNTRY CODE TREATMENT LIST (CODELIST)															
ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX
1	_____	_____	—	7	_____	_____	—	13	_____	_____	—	19	_____	_____	—
2	_____	_____	—	8	_____	_____	—	14	_____	_____	—	20	_____	_____	—
3	_____	_____	—	9	_____	_____	—	15	_____	_____	—	21	_____	_____	—
4	_____	_____	—	10	_____	_____	—	16	_____	_____	—	22	_____	_____	—
5	_____	_____	—	11	_____	_____	—	17	_____	_____	—	23	_____	_____	—
6	_____	_____	—	12	_____	_____	—	18	_____	_____	—	24	_____	_____	—

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dehnp
(5431)

5ESS Switch
OFFICE DATA ADMINISTRATION
DIOR EIGHT HUNDRED NUMBER PROVISIONING

5. COUNTRY CODE TREATMENT LIST (CODELIST)															
ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX
25	_____	_____	—	35	_____	_____	—	45	_____	_____	—	55	_____	_____	—
26	_____	_____	—	36	_____	_____	—	46	_____	_____	—	56	_____	_____	—
27	_____	_____	—	37	_____	_____	—	47	_____	_____	—	57	_____	_____	—
28	_____	_____	—	38	_____	_____	—	48	_____	_____	—	58	_____	_____	—
29	_____	_____	—	39	_____	_____	—	49	_____	_____	—	59	_____	_____	—
30	_____	_____	—	40	_____	_____	—	50	_____	_____	—	60	_____	_____	—
31	_____	_____	—	41	_____	_____	—	51	_____	_____	—	61	_____	_____	—
32	_____	_____	—	42	_____	_____	—	52	_____	_____	—	62	_____	_____	—
33	_____	_____	—	43	_____	_____	—	53	_____	_____	—	63	_____	_____	—
34	_____	_____	—	44	_____	_____	—	54	_____	_____	—	64	_____	_____	—

SCREEN 3 OF 4

5ESS Switch

dehnp

OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

5. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX
65	___	_____	-	75	___	_____	-	85	___	_____	-	95	___	_____	-
66	___	_____	-	76	___	_____	-	86	___	_____	-	96	___	_____	-
67	___	_____	-	77	___	_____	-	87	___	_____	-	97	___	_____	-
68	___	_____	-	78	___	_____	-	88	___	_____	-	98	___	_____	-
69	___	_____	-	79	___	_____	-	89	___	_____	-	99	___	_____	-
70	___	_____	-	80	___	_____	-	90	___	_____	-	100	___	_____	-
71	___	_____	-	81	___	_____	-	91	___	_____	-	101	___	_____	-
72	___	_____	-	82	___	_____	-	92	___	_____	-	102	___	_____	-
73	___	_____	-	83	___	_____	-	93	___	_____	-	103	___	_____	-
74	___	_____	-	84	___	_____	-	94	___	_____	-	104	___	_____	-

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5ESS Switch

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OFFICE DATA ADMINISTRATION

(5431)

DIOR EIGHT HUNDRED NUMBER PROVISIONING

5. COUNTRY CODE TREATMENT LIST (CODELIST)

ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX	ROW	CAC	TRMT	NXX
105	___	_____	-	111	___	_____	-	117	___	_____	-	123	___	_____	-
106	___	_____	-	112	___	_____	-	118	___	_____	-	124	___	_____	-
107	___	_____	-	113	___	_____	-	119	___	_____	-	125	___	_____	-
108	___	_____	-	114	___	_____	-	120	___	_____	-	126	___	_____	-
109	___	_____	-	115	___	_____	-	121	___	_____	-	127	___	_____	-
110	___	_____	-	116	___	_____	-	122	___	_____	-				

Figure 2 SAMPLE DEHNP FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4AG: 5432 RECORD CREDIT CARD CALLING OPTIONS FORM - CCCOPT

1. GENERAL

The 5432 Record is available with 5E4(2) and later Software Releases.

This record is used to define credit card options.

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.99.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * KEY

Description: For this key field, 0 is the default and only valid entry.

Required Field.

Default: 0

Valid Entries: 0

2.3 # PIN FAIL TIME

Description: Enter the PIN (Personal Identification Number) failure time in minutes. This is the interval during which card validation PIN failure from a specific back number and with the same account number can occur before the LOCK OUT TIME interval is entered.

Required Field.

Default: 4

Valid Entries: 4 - 20 (minutes)

Data Rules:

The PIN FAIL TIME entry must be less than the LOCK OUT TIME entry.

2.4 # LOCK OUT TIME

Description: Enter the lock out time in minutes. This is the interval that a particular calling card customer will be blocked from ACCS service due to exceeding the FRAUD FAIL count with the PIN FAILURE TIME.

Required Field.

Default: 5

Valid Entries: 5 - 120 (minutes)

2.5 # FRAUD FAIL COUNT

Description: Enter the quantity of card validation PIN failures a customer will be allowed within the PIN FAIL

TIME before the LOCK OUT TIME interval is entered.

Required Field.

Default: 30

Valid Entries: 4 - 30

2.6 SECURITY PRINTER

Description: For 5E8 and earlier, this field appears as text only on the input view and is changeable only by Recent Change. This field previously resided on the OFCOPT form (5509 Record) as OPERATOR SERVICE CENTER.

For 5E9(1) and later, this parameter specifies the OSC (Operator Service Center) and FMC (Force Management Center) location for the security printer. It is used to forward security messages to the right OSPA OAP (Administrative Processor). This field cannot be entered in ODA. On the Recent Change view 21.99, enter 1 - 32 for OSCs, or 101 - 108 for FMCs.

2.7 SECURITY TERMINAL

Description: This field appears as text only on the input view and is changeable only by Recent Change. This field previously resided on the OFCOPT form (5509 Record) as FORCE MANAGEMENT CENTER.

EMERGENCY INTERRUPT

The following fields (Section 2.8 - Section 2.9) define an emergency interrupt threshold.

2.8 EI LIMIT

Description: Enter the emergency interrupt limit in seconds. This field indicates the maximum number of seconds the operator can interrupt the forward party during Emergency Interrupt before a message will be generated on the security printer.

Default: 0

Valid Entries: 0 - 1023 (seconds)

2.9 EI THRESHOLD IND

Description: Will emergency interrupt thresholds be indicated? This field indicates whether a message should be printed when the Emergency Interrupt is exceeded.

Default: N

Valid Entries: Y, N

ALL CARDS FAIL (ACF)

The following fields (Section 2.10 - Section 2.13) define the global parameters for the ACF (All Cards Fail) feature which are only accessible from the OSPA OAP security terminal. They cannot be entered on an ODA view; they can only be entered on the Recent Change view 21.99 (OSPA Security Parameters). For more information on this feature see Division 2, Section 3I.

2.10 ACF ON

Description: This field activates the All Cards Fail feature.

Software Release: 5E9(1) and later.

2.11 PERMIT TIME

Description: This field indicates the ACF fraud candidate interval, 4 - 20 minutes. The ACF PERMIT TIME Interval is the specified time interval, in minutes, to allow repeated card validating failures from a specific back number and with the same PIN before the LOCK OUT TIME interval is entered.

Software Release: 5E9(1) and later.

2.12 LOCK OUT TIME

Description: ACF lockout interval is 5 - 120 minutes. The LOCK OUT TIME interval is the interval, in minutes, that a particular calling card customer will be blocked from ACCS service due to exceeding the FAIL THRESHOLD within the PERMIT TIME.

Software Release: 5E9(1) and later.

2.13 FAIL THRESHOLD

Description: Maximum ACF fraud attempts per PERMIT TIME, 4 - 30 attempts.

This parameter is the number of card validation replies matching the ACF fraud criteria. Enter the quantity of card validation failures that a customer will be allowed within the PERMIT TIME before the LOCK OUT TIME interval is entered, which qualifies for ACF.

Software Release: 5E9(1) and later.

Valid Entries:

```

ccccpt                      5ESS Switch      —
(5432)                      OFFICE DATA ADMINISTRATION
                              CREDIT CARD CALLING OPTIONS

*1. KEY 0                      EMERGENCY INTERRUPT

#2. PIN FAIL TIME      04      8. EI LIMIT      0000
#3. LOCK OUT TIME      005     9. EI THRESHOLD IND  N
#4. FRAUD FAIL COUNT  30
5. SECURITY PRINTER  _____ ALL CARDS FAIL (ACF)

                                10. ACF ON      N
                                11. PERMIT TIME  10
                                12. LOCK OUT TIME 20
                                13. FAIL THRESHOLD 15

SECURITY TERMINAL

```

Figure 1 SAMPLE CCCOPT FORM 5E5 - 5E8 SOFTWARE RELEASES

SEC. 4AH: 5433 RECORD

DIOR COUNTRY PAIR SCREENING SPECIAL SCREENING - DCPSSS

1. GENERAL

The 5433 Record is available with the 5E9(1) Software Release. This form specifies additional screening which may be done on a country pair for DIOR (Direct International Originations) calls. For a Terminating Country Code (TERM CC field), calls may be required to use an AT&T card or be automatically routed to an operator based on the Originating Country Code (ORIG CC field) and/or carrier.

Screening may be specified in 3 different ways:

1. "ALL" in the ORIG CC field and no entry in the CARRIER field means that all originations receive the same treatment unless overridden by either of the following two ways.
2. A specific country code in the ORIG CC field and no carrier entered means all carriers from that country receive the same treatment unless overridden by the third way below. This can also override the treatment specified in (1) above for all carriers from this country.
3. Both a specific country code in the ORIG CC field and a carrier in the CARRIER field overrides the treatment specified in (1) or (2) above.

This form supports the CPS-SS (DIOR Country Pair Screening - Special Screening) feature. For more information on this feature see Division 2, Section 3K on DIOR features.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.86.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * TERM CC

Description: Enter the DIOR terminating country code which is to have special screening done.

Required Field.

Valid Entries: 1 - 3 characters

Data Rules:

The entries in this field must be defined on the NONUSA form (5477 Record) using the HOME COUNTRY field with the DIOR MEMBER field set to "Y".

2.3 * ORIG CC

Description: Enter the DIOR originating country code to be paired with the TERM CC entry for special screening. "ALL" indicates that all originations receive the same screening when terminating to this TERM CC.

Required Field.

Valid Entries: 200 - 999 or ALL

Data Rules:

If "ALL" is entered, the CARRIER must not be entered.

Entries in this field must be defined on the CCNAME form (5463 Record) using the COUNTRY NUMBER field.

2.4 (*) CARRIER

Description: Enter the carrier of the originating country code to be paired with the terminating country code for special screening. If this field is not entered, it indicates all carriers.

Required Field.

Valid Entries: 0 - 9

2.5 # SCREEN CARD

Description: Should calls matching the originating country code and/or carrier terminating to this terminating country code be screened for an AT&T card?

Required Field.

Valid Entries: Y, N

Data Rules:

If both SCREEN CARD and OPERATOR are "N", then ORIG CC cannot be "ALL".

2.6 # OPERATOR

Description: Should calls matching the originating country code and/or carrier terminating to this terminating country code always be routed to an operator?

Required Field.

Valid Entries: Y, N

Data Rules:

If both SCREEN CARD and OPERATOR are "N", then ORIG CC cannot be "ALL".

```

dcpsss                                5ESS Switch                _
                                OFFICE DATA ADMINISTRATION
(5433)          DIOR COUNTRY PAIR SCREENING SPECIAL SCREENING

*1. TERM CC          ____
*2. ORIG CC          ____
(*) 3. CARRIER       _
#4. SCREEN CARD      _
#5. OPERATOR         _
  
```

Figure 1 SAMPLE DCPSSS FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4AI: 5434 RECORD OPERATOR DATA BASE PARAMETERS FORM - OPDBPARM

1. GENERAL

The 5434 Record is available with 5E4(2) and later Software Releases.

This record defines the data base and X.25 protocol parameters necessary to establish a session to an external data base (that is also accessible to the OSPS (Operator Services Position System) operator's VDT (Video Display Terminal)). The parameters (defined in this form) allow a call to be made to the database; a "virtual" event over a real "link".

The OPDBPARM form also defines the login and password strings being passed from the external data base, and the X.25 protocol parameters used to establish the link and define the message packet format.

When an OPDBPARM form is submitted, the OSPSOPT form (5424 Record) must have the OSPS TA field defined as "Y."

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Description: Enter the base and control group number and the office name on each record.

2.2 * DB NUMBER

Description: Enter the data base number that is accessible by an OSPS operator.

Required Field.

Valid Entries: 1 - 31

2.3 # DB NAME

Description: Enter a data base name. The entries must be unique.

Required Field for 5E6 and later.

Valid Entries: 1 - 5 characters

2.4 # DB PKT TN

Description: The name of this field was changed to FIRST DB PKT TN in 5E8. This field name applies to 5E7 and earlier. See FIRST DB PKT TN for usage information.

2.5 # FIRST DB PKT TN

Description: For 5E6 and later Software Releases, enter the ISDN telephone number of the external data base. This external data is used to provide MLB (Multileaf Bulletin) or EIS information to operators. Data base computers which belong to the same type are configured as a packet switching MLHG (Multiline Hunt Group). (This field was called DB PKT TN in 5E6 and 5E7.)

Required Field for 5E6 - 5E8.

Valid Entries: 7 or 11 digits

Data Rules:

For 5E9(1) and later:

If FIRST DB PKT TN is entered, then CUGPX must be entered. If FIRST DB PKT TN is not entered, then CUGPX must not be entered.

If TERM TYPE is "TEMPLATE", both FIRST DB PKT TN and SECOND DB PKT TN must be entered.

If TERM TYPE is "BASIC" or "TRAINER", FIRST DB PKT TN must be entered.

2.6 SECOND DB PKT TN

Description: Enter the second ISDN Destination telephone number of the database. This is only used for databases which support "TEMPLATE" terminal emulation, i.e., "T" is entered in the TERM TYPE field.

Software Release: 5E8 and later

Valid Entries: 7 or 11 digits

Data Rules:

For 5E6 - 5E8, if TERM TYPE is "BASIC", then this field must not be entered. However, if TERM TYPE is NOT "BASIC", then this field must be entered.

For 5E9(1) and later, If TERM TYPE is "TEMPLATE", both FIRST DB PKT TN and SECOND DB PKT TN must be entered. If TERM TYPE is not "TEMPLATE", SECOND DB PKT TN must not be entered.

2.7 # CUGPX

Description: Enter the packet switching (preferential customer) Closed User Group index.

Required Field for 5E6 - 5E8.

Valid Entries: 0 - 99

Data Rules:

For 5E6 and later Software Releases, every CUGPX entry requires corresponding AMLBDSL and OSPDSL forms to be entered, which meet the following criteria:

- A. CUG LIST IDX field on the AMLBDSL form (5447 Record) must match the CUGPX entry on this form.
- B. Every AMLBDSL form must have a corresponding OSPDSL form (5411 Record) where entry in the SERVICE CLASS field is "TAOPER" and the entry in the LVL2 PROF field is "VDT". Corresponding forms have matching LCENs.
- C. In addition, if the OPDBPARM form has a SEND WINDOW SIZE entry other than zero, the corresponding AMLBDSL form must have "Y" entered in the FLOW CNTL field.

For 5E9(1) and later, if FIRST DB PKT TN is entered, then CUGPX must be entered. If FIRST DB PKT TN is not entered, then CUGPX must not be entered.

2.8 FIRST SEARCH STRING

Description: Enter a first prompt string from the external data base e.g., login:

Valid Entries: 1 - 10 characters

2.9 SECOND SEARCH STRING

Description: Enter a second prompt string from the external data base, e.g., password: .

Valid Entries: 1 - 10 characters

2.10 SEND WINDOW SIZE

Description: Enter the sending size of the X.25 level 2 packet switch window.

Default: 0

Valid Entries: 0, 2, or 3

Data Rules:

When SEND WINDOW SIZE is 0, then SEND PACKET SIZE, RECEIVE WINDOW SIZE, and RECEIVE PACKET SIZE must all be 0.

2.11 SEND PACKET SIZE

Description: Enter the maximum size of information that can be sent as a block of data.

Default: 0

Valid Entries: 0 or 128

Data Rules:

When SEND PACKET SIZE is 0, then SEND WINDOW SIZE, RECEIVE WINDOW SIZE, and RECEIVE PACKET SIZE must all be 0.

2.12 RECEIVE WINDOW SIZE

Description: Enter the receiving size of the X.25 level 2 packet switch window.

Default: 0

Valid Entries: 0, 2, or 3

Data Rules:

When RECEIVE WINDOW SIZE is 0, then SEND WINDOW SIZE, SEND PACKET SIZE, and RECEIVE PACKET SIZE must all be 0.

2.13 RECEIVE PACKET SIZE

Description: Enter the maximum size of information that can be received as a block of data.

Default: 0

Valid Entries: 0 or 128

Data Rules:

When RECEIVE PACKET SIZE is 0, then SEND WINDOW SIZE, SEND PACKET SIZE, and RECEIVE WINDOW SIZE must all be 0.

2.14 RESTART TIMER

Description: Enter the restart request response timer. The X.25 level timer is used to time the response for sending the RESTART REQUEST packet from the VDT to the 5ESS Switch. The timer is started when a RESTART REQUEST packet is sent out and stopped when a RESTART CONFIRMATION or a RESTART REQUEST is received by the VDT. When the timer response time expires, the restart request counter is decremented and another RESTART REQUEST is sent out with RESTART TIMER being restarted.

Software Release: 5E6 and later

Required Field.

Default: 3 (seconds)

Valid Entries: 1 - 31 (seconds)

2.15 DATA TIMER

Description: The data packet acknowledgement timer. This is the X.25 level 3 timer used to time the acknowledgement of data packets. This timer is started whenever a DATA packet is sent from the VDT. It is also started whenever a DATA, Restart Request (RR) or Receiver Not Ready (RNR) packet is received with a P(R) that rotates the level 3 window. Upon timing out, the level 3 reset procedure is invoked with a RESTART REQUEST packet being sent out from the VDT.

Software Release: 5E6 and later

Required Field.

Default: 25 (seconds)

Valid Entries: 1 - 31 (seconds)

2.16 RESTART COUNT

Description: Restart request count. This is an X.25 level 3 counter associated with the restart request response timer. The restart request counter is decremented when the restart request response timer times out. When the restart request response timer times out the number of times equal to the restart request counter, level 3 communication is declared broken and the application is informed of this event.

Software Release: 5E6 and later

Required Field.

Default: 3

Valid Entries: 1 - 15

2.17 TERM TYPE

Description: This field defines the type of emulation used by the terminal when interfacing with the data base. For 5E6 and 5E7 this field is found on the OPEXTDB form (5435 Record).

Software Release: 5E8 and later

Required Field.

Default: BASIC

Valid Entries:

Valid TERM TYPE Entries	
Entry	Definition
BASIC or B	The Basic terminal emulation (pre 5E6). This is the pre 5E6(2) terminal emulation
IBM or I	Software Release: 5E9(1) and later. Terminal emulation used for IBM.

TEMPLATE or TE	Specific terminal emulation specified by OA.
TRAINER or TR	
VDR or V	Software Release: 5E9(1) and later. Terminal emulation used for Volt Delta.

Data Rules:

When TERM TYPE is "BASIC", FIRST DB PKT TN must be entered.

For 5E9(1) and later, when TERM TYPE is "TEMPLATE", both FIRST DB PKT TN and SECOND DB PKT TN must be entered.

If "IBM" or "VDR" is entered, then the AUTO SESSION field on the corresponding OPEXTDB form must be "Y". The OPEXTDB and OPDBPARM forms correspond if the entry in DB NAME on the OPEXTDB form matches the the entry in DB NAME on this form.

```

                                5ESS Switch
opdbparm          OFFICE DATA ADMINISTRATION      —
(5434)            OSPS OPERATOR DATABASE PARAMETERS

* 1. DB NUMBER          04                      13. RESTART COUNT   3
# 2. DB NAME            NSC1
# 3. DB PKT TN          2246006
# 4. CUGPX              34
  5. FIRST SEARCH STRING login:
  6. SECOND SEARCH STRING password:
  7. SEND WINDOW SIZE    0
  8. SEND PACKET SIZE    0000
  9. RECEIVE WINDOW SIZE 0
 10. RECEIVE PACKET SIZE 0000
 11. RESTART TIMER       3
 12. DATA TIMER         25

```

Figure 1 SAMPLE OPDBPARM FORM 5E6 AND 5E7 SOFTWARE RELEASES

```

                                5ESS Switch
opdbparm          OFFICE DATA ADMINISTRATION      —
(5434)            OSPS OPERATOR DATABASE PARAMETERS

*1. DB NUMBER          04                      13. DATA TIMER       25
#2. DB NAME            NSC1                      14. RESTART COUNT    3
#3. FIRST DB PKT TN    2246006                  15. TERM TYPE       TEMPLATE
  4. SECOND DB PKT TN  2246007
#5. CUGPX              34
  6. FIRST SEARCH STRING login:
  7. SECOND SEARCH STRING password:
  8. SEND WINDOW SIZE    0
  9. SEND PACKET SIZE    0000
 10. RECEIVE WINDOW SIZE 0
 11. RECEIVE PACKET SIZE 0000

```

12. RESTART TIMER 3

Figure 2 SAMPLE OPDBPARM FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4AJ: 5435 RECORD EXTERNAL DATA BASE ACCESS FORM - OPEXTDB

1. GENERAL

The 5435 Record is available with 5E4(2) and later Software Releases.

This record assigns each SERVING TEAM within an OSPS (Operator Services Position System) OSC (Operator Service Center) access to one or more external data bases. Each SERVING TEAM may have a primary data base session, a secondary data base session, and up to fifteen data base accesses.

The OPEXTDB form also defines login and password values, whether automatic login should be attempted and whether the data calls should be charged to the external data base DSL (Digital Subscriber Line) or to the operator VDT (Video Display Terminal) DSL.

When an OPEXTDB form is submitted, the OSPS TA field of the OSPSOPT form (5424-1/2/3/3/5 Record) must be set to Y.

1.1 Recent Change View

The corresponding Recent Change for this form is 27.31

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Description: Enter the base and control group number and the office name on each record.

2.2 * OSC NUMBER

Description: Enter the number of the operator service center.

Required Field.

Valid Entries: 1 - 32

Data Rules:

Every OSC NUMBER entry must appear in the OFFICE NUMBER field of an OPARM form (5400-1/2 Record).

2.3 * SERVING TEAM

Description: Enter the SERVING TEAM number that will service this OSPS call type.

A SERVING TEAM of 0 should be used when the operator is using the session for training purposes. When the operator logs into the switch for processing transactions, SERVING TEAM values 1 to 128 should be used.

Required Field.

Valid Entries: 0 - 128

Data Rules:

An entry in this field must be defined in the SERVING TEAM field on a STINFO form (5402 Record). If the

SERVING TEAM is 0, no entry is required on the STINFO form.

For 5E6 and later, it is not necessary to submit an OPEXTDB form (5435 Record) for serving team 0. ODA will automatically assign terminal data base keys to a maximum of 15 external data bases for serving team 0 in each OSC.

If SERVING TEAM is 0, then OSPS LOGIN must be "N".

2.4 * TERM DB KEY

Description: Enter the data base key number on the operator's terminal, TERM DB KEY, that is associated with a specific serving team and service identification number.

Required Field.

Valid TERM DB KEY Entries	
Entry	Definition
MAINDB	Main data base key
DB1	Soft key 1 of the operator's terminal
DB2	Soft key 2 of the operator's terminal
DB3	Soft key 3 of the operator's terminal
DB4	Soft key 4 of the operator's terminal
DB5	Soft key 5 of the operator's terminal
DB6	Soft key 6 of the operator's terminal
DB7	Soft key 7 of the operator's terminal
DB8	Soft key 8 of the operator's terminal
DB9	Soft key 9 of the operator's terminal
DB10	Soft key 10 of the operator's terminal
DB11	Soft key 11 of the operator's terminal
DB12	Soft key 12 of the operator's terminal
DB13	Soft key 13 of the operator's terminal
DB14	Soft key 14 of the operator's terminal

Data Rules:

Each TERM DB KEY entry on an OPEISDB form (5462-2 Record) must correspond with one or more OPEXTDB forms, where SERVING TEAM and TERM DB KEY entries on OPEISDB and OPEXTB forms match. Also, DB NAME entries must be the same on all OPEXTDB forms associated with the same OPEISDB form.

2.5 # DB NAME

Description: Enter a 1 - 15 character the database name associated with the database number, DB NUMBER, on the OPDBPARM form (5434 Record).

Valid Entries: 1 - 15 characters

Data Rules:

For each DB NAME on this form, a corresponding DB NAME must be defined on the OPDBPARM form (5434 Record).

2.6 LOGIN ID

Description: Enter the OSPS user login identification.

Valid Entries: 1 - 6 characters

2.7 LOGIN DELIM

Description: Enter the login delimiter. This is the terminating character of the login string.

Valid LOGIN DELIM Entries	
Entry	Definition
CR	Carriage return.
NL	New line.

2.8 PASSWORD

Description: Enter an OSPS password for access to the external data base.

Valid Entries: 1 - 8 character

Data Rules:

If AUTO LOGIN is "N", then neither PASSWORD nor LOGIN ID can be entered.

2.9 PASSWORD DELIM

Description: Enter the password delimiter. This is the terminating character of the password string.

Valid PASSWORD DELIM Entries	
Entry	Definition
CR	Carriage return.
NL	New line.

2.10 AUTO LOGIN

Description: Will the operator position be automatically logged-in once an operator session is active? This feature is intended to reduce operator work time by performing redundant noncall-related steps that are required to access a remote (external) computer system.

Default: Y

Valid Entries: Y, N

Data Rules:

If "N" is entered in the AUTO LOGIN field, then an entry is not allowed in the LOGIN ID and PASSWORD fields.

2.11 AUTO SESSION

Description: Will the operator session be automatically established with the external data base? A session is the period of time during which a connection exists between the VDT and an external system (when information can be exchanged).

Default: Y

Valid Entries: Y, N

2.12 OSPS LOGIN

Description: Will the individual operator OSPS login identification be used as the LOGIN ID?

Required Field.

Valid Entries: Y, N

Data Rules:

If "Y" is entered in the OSPS LOGIN field, then an entry is not allowed in the LOGIN ID field.

2.13 REVERSE CHARGE

Description: Are data calls charged to the external data base DSL? Enter "N" if data calls are charged to the operator VDT DSL.

Required Field.

Valid Entries: Y, N

2.14 TERM TYPE

Description: For 5E6 and 5E7 Software Releases, this field defines the type of emulation used by the terminal when interfacing with the data base. For 5E8 and later, this field was moved to the OPDBPARM form (5434 Record).

Software Release: 5E6 and 5E7

Required Field.

Default: BASIC

Valid Entries:

Valid TERM TYPE Entries	
Entry	Definition
T	Specific terminal emulation specified by OA.
B	Basic terminal emulation prior to 5E6 Software Release.

```

                                5ESS Switch      —
opextdb                OFFICE DATA ADMINISTRATION
(5435)                OSPS EXTERNAL DATABASE ACCESS

* 1. OSC NUMBER        03                13. TERM TYPE  TEMPLATE
* 2. SERVING TEAM      012
* 3. TERM DB KEY       DB2
# 4. DB NAME           NSC1
  5. LOGIN ID          mlh
  6. LOGIN DELIM       NL
  7. PASSWORD          mary90
  8. PASSWORD DELIM    NL
  9. AUTO LOGIN        Y
 10. AUTO SESSION      Y
#11. OSPS LOGIN        N
#12. REVERSE CHARGE    Y

```

Figure 1 SAMPLE OPEXTDB FORM 5E6 AND 5E7 SOFTWARE RELEASES

```

                                5ESS Switch      —
opextdb                OFFICE DATA ADMINISTRATION
(5435)                OSPS EXTERNAL DATABASE ACCESS

* 1. OSC NUMBER        03

```

* 2.	SERVING TEAM	012
* 3.	TERM DB KEY	DB2
# 4.	DB NAME	NSC1
5.	LOGIN ID	mlh
6.	LOGIN DELIM	NL
7.	PASSWORD	mary92
8.	PASSWORD DELIM	NL
9.	AUTO LOGIN	Y
10.	AUTO SESSION	Y
#11.	OSPS LOGIN	N
#12.	REVERSE CHARGE	Y

Figure 2 SAMPLE OPEXTDB FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4AK: 5436 RECORD TERMINATING CODE SCREENING TEXT AND RESTRICTIONS FORM - TCSTEXT

1. GENERAL

The 5436 Record is available with 5E4(2) and later Software Releases. For automated and operator-assisted credit card calls, the screen code is used to find the corresponding entry in the 5436 Record. If no match is found, then the call is not TCS (Terminating Code Screening) restricted. If there is a match, the originating station class fields for TCS restrictions are checked.

This record contains the text and restrictions associated with TCS as it appears on the VDT (Video Display Terminal).

TCS restricts calling card and collect calls to designated domestic and international destinations. It also allows the display of user-defined text to an operator for designated destinations.

1.1 Office Options

If a TCSTEXT form is defined, then an OSPSOPT form (5424 Record) must exist with OSPS TA set to "Y".

1.2 Recent Change

The corresponding Recent Change View for this form is 27.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * SCRIN CODE

Description: Enter the terminating screen code from the TCSNPA form (5437 Record). An entry of 0 means not screened.

Valid Entries:

5E4(2) through 5E6: 0 - 31
5E7 and later: 0 - 127

Data Rules:

If 0 is entered in the SCRIN CODE field, then:

- RESTRICT, DENY ALL, DENY STATION, PUBLIC, HOTEL, and OTHER fields under both the RESTRICT CLG CRD and DENY THIRD NBR heading must all be set to "N";
- the TEXT 1 field must be set to "NOT SCREENED"; and
- the TEXT 2 and TEXT 3 fields must not be entered.

DENY COLLECT

This heading was changed to COLLECT for 5E8 and later. See COLLECT for usage information.

COLLECT

The following fields (Section 2.3 - Section 2.7) determine screening when a collect call is made to a forward number. (This heading was called DENY COLLECT for 5E4(2) through 5E7.)

2.3 ALL

Description: The name of this field was changed to DENY ALL for 5E8 and later. See DENY ALL for usage information.

2.4 RESTRICT

Description: Should non-blocked collect calls be restricted to manual operator outpulsing?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

2.5 STATION ONLY

Description: The name of this field was changed to DENY STATION for 5E8 and later. See DENY STATION for usage information.

2.6 DENY STATION

Description: Should only station collect calls to a forward number be denied? (This field was called STATION ONLY for 5E4(2) through 5E7.)

Required Field.

Default: N

Valid Entries: Y, N

2.7 DENY ALL

Description: Should all collect calls (station and person) to a forward number be denied? (This field was called ALL for 5E4(2) through 5E7.)

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If DENY ALL is "Y", then STATION ONLY is a "don't care" situation.

For 5E8 and later, A SCRIN CODE of 0 means not screened. All restriction must be set to "N".

RESTRICT CLG CRD

The following fields (Section 2.8 - Section 2.10) determine screening when a credit card call is made to a

forward number.

2.8 PUBLIC

Description: Should calling card calls from public phones be restricted from manual outpulsing?

Required Field.

Default: N

Valid Entries: Y, N

2.9 HOTEL

Description: Should calling card calls from hotels be restricted from manual outpulsing?

Required Field.

Default: N

Valid Entries: Y, N

2.10 OTHER

Description: Should calling card calls from any non-public/non-hotel phones be restricted from manual outpulsing?

Required Field.

Default: N

Valid Entries: Y, N

DENY THIRD NBR (TH)

The following fields (Section 2.11 - Section 2.13) determine screening for billing to a third number.

2.11 PUBLIC

Description: Should third number billing from public phones be denied?

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.12 HOTEL

Description: Should third number billing from hotels be denied?

Software Release 5E8 and later.

Required Field.

Default Value: N

Valid Entries: Y, N

2.13 OTHER

Description: Should third number billing from any non-public/non-hotel phones be denied?

Software Release 5E8 and later.

Required Field.

Default Value: N

Valid Entries: Y, N

2.14 TEXT

Description: Enter the message to be displayed at the VDT. Three lines of text may be added. Each line is an individual field, named TEXT 1, TEXT 2 and TEXT 3, respectively. Each line can have a maximum of 49 characters. The only character which may not be entered is the double quote (").

Valid Entries: 0 - 49 characters

```

tcstext                      5ESS Switch          —
(5436)                      OFFICE DATA ADMINISTRATION
                             OSPS TERMINATING CODE SCREENING TEXT AND RESTRICTIONS

*1.  SCRN CODE      12

DENY COLLECT:                RESTRICT CLG CRD FROM:
#2.  ALL            N          #4.  PUBLIC N
#3.  STATION ONLY N          #5.  HOTEL  N
                                #6.  OTHER  N

7.  TEXT 1 NOT SCREENED
8.  TEXT 2 _____
9.  TEXT 3 _____

```

Figure 1 SAMPLE TCSTEXT FORM 5E4(2) THROUGH 5E7 SOFTWARE RELEASES

```

tcstext                      5ESS Switch          —
(5436)                      OFFICE DATA ADMINISTRATION
                             OSPS TERMINATING CODE SCREENING TEXT AND RESTRICTIONS

*1.  SCRN CODE      01

      COLLECT                RESTRICT CLG CRD          DENY THIRD NBR (TH)
2.  RESTRICT      N          5.  PUBLIC N              8.  PUBLIC N
3.  DENY STATION N          6.  HOTEL  N              9.  HOTEL  N
4.  DENY ALL      Y          7.  OTHER  N             10. OTHER  N

11. TEXT1 NO COLLECT CALLS
12. TEXT2 _____
13. TEXT3 _____

```

Figure 2 SAMPLE TCSTEXT FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4AL: 5437 RECORD TERMINATING CODE SCREENING FOR NPA-NXX FORM - TCSNPA

1. GENERAL

The 5437 Record is available with 5E4(2) and later Software Releases.

This record contains the terminating screening codes for NPA-NXXs.

If a TCSNPA form is submitted where the NXX field is not entered and the SCRN CODE field is non-zero, then every NXX within the NPA will apply the indicated screening. If a TCSNPA form is submitted with the same NPA and an NXX is entered, that form will be ignored by ODA.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NPA

Description: Enter a 3-digit NPA (Numbering Plan Area) code.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

2.3 (*) NXX

Description: Enter a 3-digit Office Code. If this field is not entered, or 000 is entered, the entire NPA will receive the indicated screening.

Valid Entries: 000 - 999

Data Rules:

For 5E7 and later, if NXX is 000, there cannot be another TCSNPA form with the same NPA as entered on this form.

2.4 REORDER

Description: When restrictions apply, will the call be sent to reorder? If an "N" is entered then the call will be routed to an OSPS (Operator Services Position System) operator when restrictions apply.

Required Field.

Default: N

Valid Entries: Y, N

2.5 MECH

Description: Are the calls terminating at the NPA and NXX eligible for MECH (More Efficient Call Handling)?

Software Release: For 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

ORIGINATING NPA LIST

The following fields (Section 2.6 - Section 2.7) assign the originating NPAs to a terminating screen code.

2.6 SCRIN CODE

Description: Enter the terminating screen code. An entry of 0 means not screened.

Required Field.

Valid Entries:

For 5E4(2) through 5E6: 0 - 31

For 5E7 and later: 0 - 127

Data Rules:

For 5E7 and later, at least one SCRIN CODE must be entered if N1 is entered, and a SCRIN CODE may appear only once in this ORIGINATING NPA LIST.

The entry must be defined in the SCRIN CODE field on the TCSTEXT form (5436 Record).

2.7 N1 - N16

Description: Enter the originating NPA of the back number. If "ALL" is entered for any originating NPA on this form, no other originating NPA entry is allowed. N1 through N16 must be entered left-to-right with no blanks between the entries. For example, if N3 is entered, then N1 and N2 must be entered.

Software Release: 5E7 and later

Valid Entries: Three-digit NPA, where the first digit must be 2-9 and the middle digit 0-1

Data Rules:

N1 must be entered for each SCRIN CODE entered. N1 - N16 may appear only once in this ORIGINATING NPA LIST. The total number of N1 - N16 entries for this ORIGINATING NPA LIST may not exceed 16, i.e. all elements entered in the list must be unique.

tcsnpa
(5437)

5ESS OFFICE DATA ADMINISTRATION —
TERMINATING CODE SCREENING
FOR NPA-NXX FORM

*1. NPA 312
(*) 2. NXX 510
#3. SCRIN CODE 17
#4. REORDER N

Figure 1 SAMPLE TCSNPA FORM 5E4(2) AND 5E5 SOFTWARE RELEASES

```

                                5ESS Switch      —
tcsnpa      OFFICE DATA ADMINISTRATION
(5437)      OSPS TERMINATING CODE SCREENING FOR NPA-NXX

* 1. NPA      708
(*) 2. NXX    510
# 3. SCRNM CODE 17
  4. REORDER  N
  5. MECH     Y

```

Figure 2 SAMPLE TCSNPA FORM 5E6 SOFTWARE RELEASE

```

SCREEN 1 OF 2                                5ESS Switch
tcsnpa      OFFICE DATA ADMINISTRATION
(5437)      OSPS TERMINATING CODE SCREENING FOR NPA-NXX

*1. NPA  708                                3. REORDER Y
(*) 2. NXX 224                              4. MECH   Y

```

5. ORIGINATING NPA LIST

ROW	SCRNM CODE	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N13	N14	N15	N16
1	005	312	815	219	___	___	___	___	___	___	___	___	___	___	___	___	___
2	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
3	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
4	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
5	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
6	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___

```

SCREEN 2 OF 2                                5ESS Switch      —
tcsnpa      OFFICE DATA ADMINISTRATION
(5437)      OSPS TERMINATING CODE SCREENING FOR NPA-NXX

```

5. ORIGINATING NPA LIST

ROW	SCRNM CODE	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12	N13	N14	N15	N16
7	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
8	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___
9	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___	___

Figure 3 SAMPLE TCSNPA FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4AM: 5438 RECORD TERMINATING CODE SCREENING AND PCC FOR COUNTRY CODE FORM - TCSCC

1. GENERAL

The 5438 Record is available with 5E4(2) and later Software Releases.

This record contains the terminating screen codes for Country Codes, and is used for the International feature and the TCS (Terminating Code Screening) feature.

A PAIRED COUNTRY CODE is assigned for each COUNTRY CODE on this form. The remaining fields are related to TCS screening restrictions on the given international Customer Administration Centers.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * COUNTRY CODE

Description: Enter the Country Code portion of a forward number.

Valid Entries: 1 - 999

Data Rules:

The COUNTRY CODE field should be populated with a COUNTRY ACCESS CODE entered on the IDDD form (5307 Record).

2.3 # PAIRED COUNTRY CODE

Description: Enter the paired Country Code portion of the forward number. This is a padded 3-digit Country Code to be outpulsed on completed IDDD (International Direct Distance Dialing) calls. In order to complete the outpulsing of an international call, the COUNTRY CODE must be mapped to a PAIRED COUNTRY CODE.

Required Field.

Valid Entries: 1 - 999

2.4 REORDER

Description: When card restrictions apply, will the call be sent to reorder? If an "N" is entered then the call will be routed to an OSPS (Operator Services Position System) operator when restrictions apply.

Required Field.

Default: N

Valid Entries: Y, N

2.5 MECH

Description: Are the calls to this Country Code eligible for MECH (More Efficient Call Handling)?

Software Release: For 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

ORIGINATING NPA LIST

The following fields (Section 2.6 - Section 2.7) assign the originating NPAs to a terminating screen code.

2.6 SCRN CODE

Description: Enter the terminating screen code. An entry of 0 means not screened.

Required Field.

Valid Entries:

5E4(2) through 5E6: 0 - 31

5E7 and later: 0 - 127

Data Rules:

For 5E7 and later, if one member of the ORIGINATING NPA LIST is entered, then SCRN CODE must be entered.

The entry must be defined in the SCRN CODE field on a TCSTEXT form (5436 Record).

2.7 N1 - N16

Description: Enter the originating NPA of the back number. If "ALL" is entered for any originating NPA on this form, no other originating NPA entry is allowed. When retrofitting from 5E6 to 5E7, the originating NPA, NP1 or row1 is set to "ALL". NP1 through NP16 must be entered left-to-right with no blanks between the entries. For example, if NP3 is entered, then NP1 and NP2 must be entered.

Software Release: 5E7 and later

Valid Entries: ALL, 100 - 999

Data Rules:

If SCRN CODE is entered, then one NPA or "ALL" must be entered.

tcsc	5ESS Switch	—
(5438)	OFFICE DATA ADMINISTRATION	
	OSPS TERMINATING CODE SCREENING & PCC FOR COUNTRY CODE	
*1. COUNTRY CODE	616	
#2. PAIRED COUNTRY CODE	618	
#3. SCRN CODE	27	
#4. REORDER	N	

Figure 1 SAMPLE TCSCC FORM 5E4(2) AND 5E5 SOFTWARE RELEASES

```

                                5ESS Switch
tcsccl                         OFFICE DATA ADMINISTRATION
(5438)    OSPS TERMINATING CODE SCREENING & PCC FOR COUNTRY CODE

*1. COUNTRY CODE          616
#2. PAIRED COUNTRY CODE   618
#3. SCRIN CODE            27
  4. REORDER              N
  5. MECH                  Y

```

Figure 2 SAMPLE TCSCC FORM 5E6 SOFTWARE RELEASE

```

SCREEN 1 OF 2                                5ESS Switch
tcsccl                         OFFICE DATA ADMINISTRATION
(5438)    OSPS TERMINATING CODE SCREENING & PCC FOR COUNTRY CODE

*1. COUNTRY CODE          41                3. REORDER   Y
#2. PAIRED COUNTRY CODE   041              4. MECH      Y

                                5. ORIGINATING NPA LIST

ROW  SCRIN CODE  N1  N2  N3  N4  N5  N6  N7  N8  N9  N10 N11 N12 N13 N14 N15 N16
1    005        312 708  ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
2    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
3    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
4    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
5    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
6    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

```

```

SCREEN 2 OF 2                                5ESS Switch
tcsccl                         OFFICE DATA ADMINISTRATION
(5438)    OSPS TERMINATING CODE SCREENING & PCC FOR COUNTRY CODE

                                5. ORIGINATING NPA LIST

ROW  SCRIN CODE  N1  N2  N3  N4  N5  N6  N7  N8  N9  N10 N11 N12 N13 N14 N15 N16
7    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
8    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
9    ___        ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

```

Figure 3 SAMPLE TCSCC FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4AN: 5439 RECORD OPERATOR SPECIAL DIALED CODES FORM - OSDC

1. GENERAL

The 5439 Record is available with 5E4(2) and later Software Releases.

This record contains the valid operator special-dialed codes used for residual calls. Residual calls are specialized operator calls handled by the SOST (Special Operator Service Traffic) operators.

When a customer places a residual call, the OSPS (Operator Services Position System) operator obtains the type of service information from the customer, enters an OSDC (Operator Special Dialed Code) to reach an SOST operator, informs the SOST of the call details, and then releases the call.

If an OSDC form is defined, then the OSPSOPT form (5424 Record) must be submitted with OSPS TA set to "Y".

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * OPER SPEC DIAL CODE

Description: Enter a 4- or 5-digit operator special-dialed code.

Valid Entries: 1100 - 1199, 11000 - 11999.

Data Rules:

There are a maximum of 10 codes permitted per 5ESS Switch. All the codes must be the same number of digits.

osdc	5ESS Switch	—
(5439)	OFFICE DATA ADMINISTRATION	
	OSPS OPERATOR SPECIAL DIALED CODES	

*1. OPER SPEC DIAL CODE 1104

Figure 1 SAMPLE OSDC FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AO: 5440 RECORD EXCEPTION AREAS FORM - EXMAP

1. GENERAL

The 5440 Record is available with 5E4(2) and later Software Releases.

This record defines the originating and terminating exception area indices for an exception call. The use of this form assumes that the 5ESS Switch has ISP (Intermediate Switching Point) trunks and, probably, OSPS (Operator Services Position System). This form should not be entered unless at least one TKGRP form (5202 Record) exists with a TRKCLS field entry of "FIOPR".

Exception calls are calls from a specific NPA-NXX served by the 5ESS Switch to a specific NPA-NXX in another LATA (Local Access and Transport Area). Although the call crosses a LATA boundary, the call is to be treated as an intraLATA call.

Exception area mapping is only done if an OSPSOPT form (5424 Record) has been submitted with the EXCEPT DETRM field set to "Y".

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * ORIG EAI

Description: Enter the originating exception area index.

Required Field.

Valid Entries: 1 - 250

Data Rules:

The ORIG EAI entry must not equal the TERM EAI entry.

Entries in this field must be defined in the EAI field of an NPAMAP form (5414 Record).

2.3 * TERM EAI

Description: Enter the terminating exception area index.

Required Field.

Valid Entries: 1 - 250

Data Rules:

The TERM EAI entry must not equal the ORIG EAI entry.

Entries in this field must be defined in the EAI field of an NPAMAP form (5414 Record).

exmap	5ESS Switch	—
(5440)	OFFICE DATA ADMINISTRATION	
	OSPS/ISP EXCEPTION AREAS	

*1. ORIG EAI ____

*2. TERM EAI ____

Figure 1 SAMPLE EXMAP FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AP: 5441-1/2/3 RECORD BUSY LINE VERIFICATION NPA FORM - BLVNPA

1. GENERAL

The 5441 Record is available with 5E4(2) and later Software Releases.

This Record contains information regarding NPA-NXXs that can be verified using the BLV (Busy Line Verify) feature. BLV permits an operator to determine whether a telephone line is actually busy or not. The BLVNPA form contains the NPAs (Numbering Plan Areas) that are verifiable from the OSPS (Operator Services Position System) office, and a status for each NXX (Office Code) within the NPA (Numbering Plan Area). It also contains a routing code used when BLV is performed by the operator.

If a BLVNPA form is submitted, then an OSPSOPT form (5424 Record) must be submitted with the OSPS TA field set to "Y".

No more than 16 BLVNPA forms may be submitted for a 5ESS Switch.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.10.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NPA

Description: Enter an NPA (Numbering Plan Area).

Required Field.

Valid Entries:

For 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

2.3 # ROUTE CODE

Description: Enter the routing code for Busy Line Verification. This code will replace the NPA of the called number when the operator attempts a BLV (for digit analysis). The code is used to properly route the call out of the OSPS office.

Required Field.

Valid Entries: 0 - 199

2.4 LIST OF NXXs (200-399)

Description: Enter the list of NXX lines; this field represents a BLV screen bit map.

Valid LIST OF NXXs Entries	
Entry	Definition

0 (or blank)	Verifiable; the entire NXX can be verified by this OSPS.
1	Exclusions; there are line numbers in the NXX that are excluded from verification.
2	Nonverifiable; the entire NXX cannot be verified by this OSPS. The operator can go to an inward operator to perform the verification.

Data Rules:

Entries of 1 in the LIST OF NXXs field require that a BLVEX form (5442 Record) be defined for this NPA/NXX combination.

SCREEN 1 OF 3

5ESS Switch

blvnpa

OFFICE DATA ADMINISTRATION

(5441)

OSPS BUSY LINE VERIFICATION NPA

*1. NPA 312

#2. ROUTE CODE 016

3. LIST OF NXXs (200-399)

01234	56789	01234	56789	01234	56789	01234	56789
1. 200	_____	6. 250	_1_____	11. 300	_____	16. 350	_____
2. 210	_____	7. 260	_____	12. 310	_____	17. 360	_____
3. 220	_____2_____	8. 270	_____1_____	13. 320	_____	18. 370	_____
4. 230	_____	9. 280	_____	14. 330	_____	19. 380	_____
5. 240	_2_____	10. 290	_____	15. 340	_____	20. 390	_____

SCREEN 2 OF 3

5ESS Switch

blvnpa

OFFICE DATA ADMINISTRATION

(5441)

OSPS BUSY LINE VERIFICATION NPA

3. LIST OF NXXs (400-799)

01234	56789	01234	56789	01234	56789	01234	56789
21. 400	_____	31. 500	_____	41. 600	_____	51. 700	_____
22. 410	_____	32. 510	_____	42. 610	_____	52. 710	_____
23. 420	_____	33. 520	_____	43. 620	_____	53. 720	_____
24. 430	_____	34. 530	_____	44. 630	_____	54. 730	_____
25. 440	_____	35. 540	_____	45. 640	_____	55. 740	_____
26. 450	_____	36. 550	_____	46. 650	_____	56. 750	_____
27. 460	_____	37. 560	_____	47. 660	_____	57. 760	_____
28. 470	_____	38. 570	_____	48. 670	_____	58. 770	_____
29. 480	_____	39. 580	_____	49. 680	_____	59. 780	_____
30. 490	_____	40. 590	_____	50. 690	_____	60. 790	_____

SCREEN 3 OF 3

5ESS Switch

blvnpa

OFFICE DATA ADMINISTRATION

(5441)

OSPS BUSY LINE VERIFICATION NPA

3. LIST OF NXXs (800-999)

01234	56789	01234	56789	01234	56789	01234	56789

61. 800	_____	_____	66. 850	_____	_____	71. 900	_____	_____	76. 950	_____	_____
62. 810	_____	_____	67. 860	_____	_____	72. 910	_____	_____	77. 960	_____	_____
63. 820	_____	_____	68. 870	_____	_____	73. 920	_____	_____	78. 970	_____	_____
64. 830	_____	_____	69. 880	_____	_____	74. 930	_____	_____	79. 980	_____	_____
65. 840	_____	_____	70. 890	_____	_____	75. 940	_____	_____	80. 990	_____	_____

Figure 1 SAMPLE BLVNPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AQ: 5442 RECORD BUSY LINE VERIFICATION LINE EXCLUSIONS FORM - BLVEX

1. GENERAL

The 5442 Record is available with 5E4(2) and later Software Releases.

This record contains information regarding the lines excluded from verification for an NPA-NXX code.

A maximum of 96 BLVEX form entries are allowed for a specific combination of NPA and NXX.

If a BLVEX form is submitted, then the OSPSOPT form (5424 Record) must be submitted with OSPS TA set to "Y".

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NPA

Description: Enter an NPA (Numbering Plan Area).

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

Data Rules:

For the NPA entered on this form, there must be a BLVNPA form (5441 Record) keyed by the NPA.

For 5E11 and later, ten-digit numbers which are defined by NPA, NXX, BEG LINE, and optionally, END LINE on the BLVEX form, must not be duplicated or overlapped by ten-digit numbers on another BLVEX form.

2.3 * NXX

Description: Enter an Office Code.

Required Field.

Valid Entries: 200 - 999

Data Rules:

For the NXX entered on this form, the BLVNPA form, keyed by the NPA on this form, must have a 1 entered for this NXX value in the LIST OF NXXs.

2.4 * BEG LINE

Description: Enter the station number to be excluded from verification. This field may be used to specify the first number for a range of numbers to be excluded. If this field is used to specify such a range, the END LINE field will contain the last number in the range to be screened.

Required Field.

Valid Entries: 0000 - 9999

2.5 (*) END LINE

Description: Enter the last number in a range of numbers to be screened. This field is optional.

Valid Entries: 0001 - 9999

Data Rules:

If an entry is made in this field, it must be greater than the entry in the BEG LINE field.

```
blvex                                5ESS Switch      _
(5442)                             OFFICE DATA ADMINISTRATION
                                   OSPS BUSY LINE VERIFICATION LINE EXCLUSIONS

*1. NPA          312
*2. NXX          420
*3. BEG LINE 4647
(*) 4. END LINE _____
```

Figure 1 SAMPLE BLVEX FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AR: 5443 RECORD TGN TO LEC INDEX FORM - TGNLEC

1. GENERAL

The 5443 Record is available with 5E4(2) and later Software Releases.

This record provides information for mapping a TGN (Trunk Group Number) to the appropriate text to be displayed to an operator when a call is routed to an OSPS (Operator Services Position System) position.

In other words, the record is used to provide VDT (Video Display Terminal) text specific to an incoming LEC (Local Exchange Carrier) trunk group. This text can be used to inform the OSPS operator that the call originated from an independent LEC company.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the base and control group number and the office name on each record.

2.2 * TGN

Description: Enter the Trunk Group Number.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

2.3 # LEC INDEX

Description: Enter the index into the LEC message table.

Required Field.

Valid Entries: 0 - 1999

Data Rules:

Entries in this field must exist as entries in the TEXT LINES field on the LECTEXT form (5444 Record).

tgnlec	5ESS Switch	—
(5443)	OFFICE DATA ADMINISTRATION	
	OSPS TGN TO LEC INDEX	

*1. TGN _____

#2. LEC INDEX _____

Figure 1 SAMPLE TGNLEC FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AS: 5444 RECORD LOCAL EXCHANGE CARRIER TEXT FORM - LECTEXT

1. GENERAL

The 5444 Record is available with 5E4(2) and later Software Releases.

This record provides LEC (Local Exchange Carrier) specific text to be displayed to an operator when a call comes to an OSPS (Operator Services Position System) operator position.

This text can be used to inform the OSPS operator that the call originated from an independent LEC company.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * LEC INDEX

Description: Enter the index into the LEC message table.

Required Field.

Valid Entries: 0 - 1999

2.3 TEXT LINES

Description: Enter the text to be displayed at the VDT (Video Display Terminal). There are 4 lines of data.

Each line is an individual field, named TEXT 1, TEXT 2, TEXT 3 and TEXT 4, respectively. Each line can have a maximum of 29 characters. At least one character must be entered in one of the four lines; all characters are allowed, with the exception of a double quote (").

Valid Entries: 29 characters (per line)

```
lectext                5ESS Switch      —
(5444)                OFFICE DATA ADMINISTRATION
                      OSPS LOCAL EXCHANGE CARRIER TEXT
```

*1. LEC INDEX 0455

```
#2. LEC TEXT LINE 1 _____
 3. LEC TEXT LINE 2 _____
 4. LEC TEXT LINE 3 _____
 5. LEC TEXT LINE 4 _____
```

Figure 1 SAMPLE LECTEXT FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AT: 5446 RECORD NXX RESTRICTION FOR MEET-ME/ADD-ON ALLIANCE TELECONFERENCING FORM - ATC

1. GENERAL

The 5446 Record is available with 5E4(2) and later Software Releases. It is used to list NPAs for which some or all NXXs can be restricted from using Meet-me or Add-on ATC (Alliance Teleconferencing). This record is used by OSPS (Operator Services Position System) for access restriction.

Detailed information concerning Alliance Teleconferencing capability is located in Division 2, Section 10.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.40.

2. FORM ENTRIES

2.1 BASE AND CONTROL, UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NPA

Description: Enter the NPA (Numbering Plan Area) served by this OSPS containing NXXs that are restricted from originating Meet-me or Add-on calls.

Required Field.

Valid Entries:

For 5E4(2) - 5E8: 200 - 919, middle digit 0 - 1

For 5E9(1) and later: 200 - 999

2.3 * TYPE

Description: Enter the ATC type.

Required Field.

Valid TYPE Entries	
Entry	Definition
A	Add-on ATC
M	Meet-me ATC

2.4 # RESTRICT ALL

Description: Are all of the NXXs restricted? Enter "N" if only some of them are restricted.

Required Field.

Default: N

Valid Entries: Y, N

2.5 LIST OF NXXs

Description: Enter "X" (Yes) for each NXX that is to be restricted from originating Add-on or Meet-Me (depending upon the value in the TYPE field) ATC calls. Leave each NXX field blank (or spaces) that is not restricted.

If "Y" is entered in the RESTRICT ALL field, there is no need to make any entry in the LIST OF NXXs.

Valid Entries: X (blank or spaces)

SCREEN 1 OF 3

5ESS Switch

atc

OFFICE DATA ADMINISTRATION

(5446) OSPS NXX RESTRICTION FOR MEET-ME/ADD-ON ALLIANCE TELECONFERENCING

*1. NPA 312

*2. TYPE ADDON

#3. RESTRICT ALL N

4. LIST OF NXXs (200-399)

01234 56789		01234 56789		01234 56789		01234 56789	
1. 200	_____	6. 250	_____	11. 300	_____	16. 350	_____
2. 210	_____	7. 260	_____X_____	12. 310	_____	17. 360	_____
3. 220	_____	8. 270	_____	13. 320	_____	18. 370	_____
4. 230	_____	9. 280	_____	14. 330	_____	19. 380	_____
5. 240	_____	10. 290	_____	15. 340	_____	20. 390	_____

SCREEN 2 OF 3

5ESS Switch

atc

OFFICE DATA ADMINISTRATION

(5446) OSPS NXX RESTRICTION FOR MEET-ME/ADD-ON ALLIANCE TELECONFERENCING

4. LIST OF NXXs (400-799)

01234 56789		01234 56789		01234 56789		01234 56789	
21. 400	_____	31. 500	_____	41. 600	_____	51. 700	_____
22. 410	_____	32. 510	_____	42. 610	_____	52. 710	_____
23. 420	_____X_____	33. 520	_____	43. 620	_____	53. 720	_____
24. 430	_____	34. 530	_____	44. 630	_____	54. 730	_____
25. 440	_____	35. 540	_____	45. 640	_____	55. 740	_____
26. 450	_____	36. 550	_____	46. 650	_____	56. 750	_____
27. 460	_____	37. 560	_____	47. 660	_____XXXX_____	57. 760	_____
28. 470	_____	38. 570	_____	48. 670	_____	58. 770	_____
29. 480	_____	39. 580	_____	49. 680	_____	59. 780	_____
30. 490	_____	40. 590	_____	50. 690	_____	60. 790	_____

SCREEN 3 OF 3

5ESS Switch

atc

OFFICE DATA ADMINISTRATION

(5446) OSPS NXX RESTRICTION FOR MEET-ME/ADD-ON ALLIANCE TELECONFERENCING

4. LIST OF NXXs (800-999)

01234 56789		01234 56789		01234 56789		01234 56789	
61. 800	_____	66. 850	_____	71. 900	_____	76. 950	_____

62. 810	_____	_____	67. 860	_____	_____	72. 910	_____	_____	77. 960	_____	_____
63. 820	_____	_____	68. 870	_____	_____	73. 920	_____	_____	78. 970	_____	_____
64. 830	_____	_____	69. 880	_____	_____	74. 930	_____	_____	79. 980	_____	_____
65. 840	_____	_____	70. 890	_____	_____	75. 940	_____	_____	80. 990	_____	_____

Figure 1 SAMPLE ATC FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AV: 5447-1/2/3 RECORD

OSPS DSL PACKET SWITCHING ASSIGNMENTS FORM - AMLBDSL

1. GENERAL

The 5447 Record is available with 5E4(2) and later Software Releases, and is used to collect data for OSPS/CACD (Centrex Automatic Call Distribution) packet switching DSL (Digital Subscriber Lines). The AMLB (Automated Multi-Leaf Bulletin) capability allows a VDT (Video Display Terminal) or CST (Combined Services Terminal) to make a packet-switched call to an external data base. In order to do this, the external data base is connected to a DSL (Digital Subscriber Line). The DSL needs to have its features and characteristics set appropriately to provide maximum efficiency for data transfer. This record is used to collect data for OSPS (Operator Services Position System) external data base DSLs.

AMLB is an on-line query system that contains frequently used information which may be used by an operator to complete a customer's call. OSPS uses the AMLB capability to access multi-leaf bulletin data. See Division 2, Section 3H for a more detailed discussion of the AMLB capability. See Division 2, Section 3G for additional information on MDBA (Multiple Data Base Access), which is an extension of AMLB.

1.1 B-channel Time Slots

The choice of a B-channel time slot must be unique within the 5ESS Switch. The combination of the LCEN (first four digits), PIDB, and TS fields are used to determine the uniqueness of a B-channel time slot. Figure 1 illustrates the forms and corresponding fields where the combination of the three fields may not be duplicated. Table references to the LCEN field refer only to the first four digits. The AMLBDSL form is included because the combination of the three fields may not be duplicated on different occurrences of an AMLBDSL form.

1.2 Recent Change View

The corresponding recent change view for this form is 21.34

2. FORM ENTRIES - 5447-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the office name on each record.

2.2 * LCEN

Description: The LCEN field lists the physical components that describe the AMLB DSL. Enter a valid 8-digit RISLU (Remote Integrated Service Line Unit) LCEN (Line Card Equipment Number).

Required Field.

Valid Entries: An 8-digit LCEN in the following format:

LINE CARD EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
(Remote) Integrated Services Line Unit	(R)ISLU	X	0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	00-31

Data Rules:

Duplicate LCENs must not be assigned.

LCENs defined in this field must be even (divisible by 2).

Within any given DSL group, DSLs of any LGC (Line Group Controller) must be assigned members from one and only one of the member number groupings 0-3, 6-9 or 12-15.

One EQISLU or EQRISLU form is required for all AMLBDSL forms with the same SM and ISLU entries in the LCEN field. All AMLBDSL forms require corresponding OSPSDSL forms with matching LCENs.

The SWITCHING MODULE field on the EQPSU form matches the SM portion of the LCEN field on the OSPSDSL and AMLBDSL forms. The ISCN field is located on the OSPSDSL form, and the ISCN field is located on an AMLBDSL form.

An SLG is a set of four ISLU LCs (Line Cards) assigned to the same LGC. The valid sets of LCs are as follows:

0, 2, 4, 6

8, 10, 12, 14

16, 18, 20, 22

24, 26, 28, 30

It is recommended that OSPS DSLs equipped in a given SLG (Sub-Line Group) belong to the same DSL group, when a Protocol Handler Type of PH3 is entered on the EQPSU form. (OSPS DSLs are assigned on an AMLBDSL and OSPSDSL forms.) A corresponding EQPSU form is one where the SM entry on the EQPSU form matches the SM portion of the LCEN entry on this form.

A LCEN which has a PKT RAX and a PKT LCC entered on a LCC form (5306 Record), which has an associated DIGIT ANALYSIS SELECTOR entered on a DAS form (5300-1 Record), which finally has the associated PREFIX/FEATURE DIT entered on PDIT form(s) (5300-2 Record[s]) and/or the associated LOCAL DIT entered on LDIT form(s) (5300-3/5 Record[s]) requires the following: When TYPE OF CI CALL is known on a PDIT and/or a LDIT form, it must be equal to "PSNCL" or "PSCAR".

A corresponding AMLBDSL form is required for each OSPSDSL form when LVL2 PROF on the OSPSDSL form is "ISDN" or "PKTSW". An AMLBDSL form must not be submitted unless LVL2 PROF on the corresponding OSPSDSL form is "ISDN" or "PKTSW". The AMLBDSL and OSPSDSL forms correspond if they have matching LCENs.

For 5E10 and later, the following data rule does not apply to an SM2000, provisioning of nailed-up time slots is not required on an SM2000.

On a PSU2, each Data Interface in an SM can have a maximum of 256 nailed-up time slots reserved for the following applications.

Timeslots Reserved for Applications	
Application	Defined on Form(s)
EDSL	TRKCLS set to "EDSL" on the TKGRP form
IFOPER	TRKCLS set to "IFOPER" on the TKGRP form
IFTERM	TRKCLS set to "IFTERM" on the TKGRP form
IP	TRKCLS set to "PACKET" on the TKGRP form
ISM	PSISM
PKTPIPE	TRKCLS set to "PKTPIPE" on TKGRP form
RISLU B Channel	DSL and AMLBDSL
RISLU D Channel	DSL, DSLAP, MISLINK, and OSPSDSL
SPCHNDLR	TRKCLS set to "SPCHNDLR" on TKGRP form

X.25	XAT
X75	TRKCLS set to "X75" on the TKGRP form
X75P	TRKCLS set to "X75P" on the TKGRP form

These time slots can be reserved by setting rows RPTSS0 to RPTSS7 to 1 on the EQPSU form. The quantity of time slots reserved (i.e. the number set to 1) must be greater than or equal to the quantity of time slots assigned for the above applications. Note that a D-channel only takes a quarter of a time slot. A PSU SHELF may be assigned more than 1 DI: one for DI 0 and a second for DI 1. Since a given PSU SHELF may have as many as 128 time slots on a DI, it is not possible for each time slot to have a unique vertical (column) position (i.e., unique time slot value of 0 - 31 on different PIDBs).

2.3 SERVICE CLASS

Description: Enter the OSPS Service Class.

Software Release: 5E6 and later

Required Field.

Valid Entries:

Valid SERVICE CLASS Entries	
Entry	Definition
DAOPER	Directory Assistance Operator - BST
TAOPER	Toll and Assistance Operator - VDT
XDB	External Data Base

Data Rules:

DAOPER - If "DAOPER" is entered, then

- CUGOA must be "N"
- CUGIA must be "N"
- DPIDB must be blank
- ICB must be "N"
- ISCN must be blank
- N2 must be blank
- OCB must be "N"
- RATE must not be entered
- RCV TPC must be 9600
- SEND TPC must be 9600
- T1 must be blank
- TN must be entered
- TS must be blank
- TPCN must be "N"
- WNDSZ must be blank.

If "DAOPER" is entered and H PVC LCN is entered, then L 2W LCN and H 2W LCN must not be entered.

If "DAOPER" is entered and H PVC LCN is not entered, then L 2W LCN must be 1 and H 2W LCN must be 12.

TAOPER - If "TAOPER" is entered, then

- CUGOA must be "N"
- CUGIA must be "N"
- DPIDB must be blank
- FSA must be "N"

IA must be "N"
ICB must be "Y"
ISCN must be blank
H 2W LCN must be blank
H OUT LCN must be 12
H PVC LCN must be blank
L 2W LCN must be blank
L OUT LCN must be 1
N2 must be blank
OCB must be "N"
RATE must not be entered
RCV TPC must be 9600
RCV PKT SIZE must be 128
SEND TPC must be 9600
SEND PKT SIZE must be 128
T1 must be blank
TN must be entered
TPCN must be "N"
TS must be blank
WNDSZ must be blank.

For 5E9(1) and later, if "TAOPER" is entered and L IN LCN is not entered, then:

- CUGOA, CUGIA and IA must all be "N"
- ICB must be "Y"
- H IN LCN must not be entered
- L OUT LCN must be 1
- the corresponding OSPSDSL form (found by matching LCEN values) must not have any DATA LINK GRP or DATA LINK NBR entries.

For 5E9(1) and later, if "TAOPER" is entered and L IN LCN is entered, then:

- CUGOA, CUGIA, and IA must all be "Y"
- ICB must be "N"
- CUGOA, CUGIA, and IA must all be "Y"
- ICB must be "N"
- H IN LCN must be 1

- L IN LCN must be 1
- L OUT LCN must be 2
- the corresponding OSPSDSL form (found by matching LCEN values) must have entries for DATA LINK GRP and DATA LINK NBR.

XDB - If "XDB" is entered, then
ISCN must be entered
N2 must be entered
RCV PKT SIZE must be 128
RATE must be entered
SEND PKT SIZE must be 128
SUST must be "N"
T1 must be entered
WNDSZ must be entered.

If "XDB" is entered then either IN LCN or 2W LCN must have an entry.

2.4 TN

Description: Enter the TN (Packet Switching Telephone Number) that identifies this DSL.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

TNs must be unique for each entry.

A NOC form must exist for each entry in the TN field.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the AMLBDSL form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE or the NOC form does not exist, the 7-digit TN(s) must be entered as a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.5 # RAX

Description: Enter the Packet Switching Rate Center that performs digit analysis.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

Data Rules:

The RAX on this form must match a RATE AREA on an LCC form. The LCC (LINE CLASS CODE) and RAX

(RATE AREA) of an LCC form with a CLASS OF SERVICE of "TAOPER" must match the LCC and RAX on this form.

The LCC for a CLASS OF SERVICE of "TAOPER" is permitted only for packet switching.

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

2.6 # LCC

Description: Enter the Packet Switching Line Class Code that performs digit analysis. This entry represents an index to a terminating class and service class combination.

Required Field.

Valid Entries: 3-character alphanumeric strings

Data Rules:

The LCC on this form must match a LINE CLASS CODE on an LCC form. The LINE CLASS CODE and RATE AREA of an LCC form with a CLASS OF SERVICE of "TAOPER" must match the LCC and RAX on an AMLBDSL form. The LINE CLASS CODE for a CLASS OF SERVICE of "TAOPER" is permitted only for packet switching.

2.7 ISCN

Description: Enter a valid 6-digit packet ISCN (Integrated Services Channel Number). The ISCN field defines the protocol handler that is used by this DSL for communications purposes.

Valid Entries: 6-digit packet ISCN with the following format:

INTEGRATED SERVICES CHANNEL NUMBER			
Equipment		Format	Valid Entries
Shelf	SHELF	X	0-4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	000-124

Data Rules:

The CHL entry must be zero or a multiple of four (e.g., 000, 004, 008, 012, ..., or 124).

Duplicate ISCNs may not be assigned.

If the PROTOCOL HANDLER TYPE on the corresponding EQPSU form is "PH16", then the last three digits of the ISCN entry must be 000.

When B1 PKT ISCNs are assigned on this form, a PIDB (Peripheral Interface Data Bus) with a PIDB TYPE of "PSU" is required on the same Packet Switching Unit shelf (on the EQISLU form) as the PSU shelf number specified by the first two digits of the ISCN entry.

One EQPSU form is required for all AMLBDSL forms assigning ISCNs in the same SM.

If ISCN has been entered, then the corresponding combination of SM, PSU, PSU SHELF and GRP must be entered on the PSUGP form.

ISCNs cannot be duplicated on one or more of the following forms:

AMLBDSL

CCLNK
 DSL
 DSLAP
 DSLUSR
 MDLNK
 MISLINK
 ODBRES
 OSPSDSL
 PSISM
 RTERM
 TRUNK and XAT.

Each ISCN entry must have the SHELF value (the first character of the ISCN) assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

For 5E9(1) and later:

If SM / SHELF / CHL GRP combination corresponds with the combination of SM, PSU, PSU SHELF and GRP on the PSUGP form, then the PH TYPE on the PSUGP form must be set to "PH3". The SM is the first three digits of LCEN, SHELF/CHL GRP is the first three digits of ISCN on the AMLBDSL form (when it is entered) or the first three digits of ISCN on the corresponding OSPSDSL form when ISCN is not entered on the AMLBDSL form.

A maximum of 128 ALCBs (Access Link Control Blocks) can be used per SM, Shelf and Channel Group. The following applications use one ALCB:

- AMLBDSL - where SERVICE CLASS is "XDB" on a corresponding OSPSDSL form
- DSL - where SHELF/CHL GRP is the first three digits of PPB1 ISCN or PPB2 ISCN
- DSLUSR
 - where SHELF/CHL GRP is the first three digits of D ISCN on a corresponding DSL form
 - where SHELF/CHL GRP is the first three digits of ODB ISCN1 or ODB ISCN2
- MISLINK - where SHELF and CHL GRP are the SHELF and CHL GRP fields (respectively) on the form
- OSPSDSL - where SHELF/CHL GRP is the first three digits of ISCN and SERVICE CLASS is "TAOPER" or "DAOPER"
- XAT - where SHELF/CHL GRP is the first three digits of ISCN.

For 5E10 and later:

Each SM (Switching Module) can have up to 5 PSU SHELFs (defined by the first digit in the ISCN field). If the UNIT TYPE on the EQIM form (5700 Record) is not "SM2000", each PSU SHELF can be assigned up to (32 times X) time slots for the following applications: (Note: X represents the number of PIDBs, 0 to 4, provisioned per shelf.)

32 Time Slots For Applications

5E10 and Later	
Application	Form
RISLU B Channel	defined on the DSL/AMLBDSL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
RISLU D Channel	defined on the DSL/DSLAP/OSPSDSL forms where the first 3-digit of LCEN matches SM on an EQRISLU form.
X.25	defined on the XAT form.
ISM	defined on the PSISM form.
IP	defined by setting TRKCLS equal to "PACKET" on the TKGRP form and defining members on TRUNK forms.
X75P	defined by setting TRKCLS equal to "X75P" on the TKGRP form and defining members on TRUNK forms.
X75	defined by setting TRKCLS equal to "X75" on the TKGRP form and defining members on TRUNK forms.
EDSL	defined by setting TRKCLS equal to "EDSL" on the TKGRP form and defining members on TRUNK forms.
IFOPER	defined by setting TRKCLS equal to "IFOPER" on the TKGRP form and defining members on TRUNK forms.
IFTERM	defined by setting TRKCLS equal to "IFTERM" on the TKGRP form and defining members on TRUNK forms.
RPA	defined by setting BRI RDPA PIDB TS to a non-zero value on the EQPSUPH form.
PKTPIPE	defined by setting TRKCLS equal to "PKTPIPE" on the TKGRP form and defining members on TRUNK forms.
SPCHNDLR	defined by setting TRKCLS equal to "SPCHNDLR" on the TKGRP form and defining members on TRUNK forms.

For 5E10 and later, the SM entered in the ISCN field on this form can not have an ISCN SHELF and CHL GRP which are mixed with ISCNs from PSISM forms, PSULNK forms, or TRUNK forms which have a TRKCLS of

"PACKET"
 "PKTPIPE"
 "SPCHNDLR"
 "X75"
 "X75P"

defined on the TKGRP form. However, the

AMLBDSL
 DSL
 DSLAP
 DSLUSR
 ODBRES
 OPSDSL
 RTERM
 XAT

forms along with all TRUNK forms which have a TRKCLS of

- "EDSL"
- "IFTERM"
- "IFOPER"

defined on the TKGRP form can share an ISCN SHELF and CHL GRP (the first three characters of the ISCN) with ISCNs from other forms from this set in the same SM.

2.8 N2

Description: The N2 field defines the maximum number of LAPB level 2 frame retransmissions for packet

switching on a B-channel that will take place before any type of testing action is taken.
Valid Entries: 2 - 15

Data Rules:

An entry in the N2 field is required when "ADMIN" is entered in the D SERV field.

2.9 T1

Description: Enter the timeout value for LAPB level 2 frame retransmission. The value may range from 0.2 to 2.0 seconds in increments of 0.02 seconds.

Valid Entries: even numbers from 20 - 200 (tenths of a second)

Data Rules:

An entry in the T1 field is required when "ADMIN" is entered in the D SERV field.

2.10 WND SZ

Description: Enter the maximum number of LAPB level 2 I-frames. This entry indicates how many frames containing data may be transmitted before an acknowledgement is required.

Valid Entries: 1 - 7

Data Rules:

An entry in the WND SZ field is required when "ADMIN" is entered in the D SERV field.

2.11 DPIDB

Description: Enter the PIDB number for the ISLU-based AMLB DSL.

Valid Entries: 2 - 11

Data Rules:

An entry in this field is required when "ADMIN" is entered in the D SERV field.

An entry is not allowed in this field for DSLs assigned to a RISLU.

2.12 TS

Description: Enter the time slot that the B-channel is assigned to on the D PIDB.

Valid Entries: 0 - 31

Data Rules:

An entry in the TS field is required when "ADMIN" is entered in the D SERV field. Digital subscriber lines must not be assigned to duplicate B-channel time slots.

B-channel time slots cannot be assigned by ODA. Hardware assignments (on the EQISLU form) must be sufficient for the number of time slots required. An entry is not allowed in the TS field for DSLs assigned to a RISLU.

The TS entry must not be equal to the LGC portion of the entry in the LCEN field, and must not equal the sum of the LGC plus 16.

The LCEN's assigned on the AMLBDSL, DSLAP or OSPSDSL forms, or DSL OE's on the DSL form or OE's on the MISLINK form can not have their D and/or B Channels assigned to conflicting DPIDB time slots or quarter time slots due to manual (vs ODA) time slot assignments. Each SM/ISLU or SM/IDCU DPIDB time slot may be assigned only once. (Note, D channels are allocated to quarter time slots; therefore up to four unique assignments can be made before a time slot is considered full.

When making manual assignments, care must be taken to use assignments as shown in Figure 2, TS Entry vs LGC and DPIDB entries. For example, if manual assignments are being made and the DPIDB selected is 11 and the LGC from the OE is 0, then the TS assignment must be 1, 9, 17, or 25. B and/or D channel assignments made manually cannot conflict with the ODA assignment algorithm. The ODA algorithm allocates 4 time slots for each DPIDB per SM/ISLU/LGC. The LGCs 0 - 7 are allocated time slots on the odd numbered DPIDBs while LGCs 8 - 15 are allocated time slots on the even numbered DPIDBs. Manual time slot assignments do not have to follow this algorithm. However, if manual assignments are made, they will use one or more time slots. These manual assignments diminish (and may conflict with) the time slots available for the ODA assignment algorithm. For example, TS 1, 9, 17 and 25 are the 4 time slots that are allocated to ODA for LGC 0 in any ISLU which has a DPIDB 11 assigned. If a manual assignment is made to TS 9 on DPIDB 11 from any LGC in this ISLU there will only be 3 TS left on PIDB 11 for ODA assignments. Of course other odd numbered DPIDBs will have 4 TS for ODA assignments to LGC 0.

2.13 # SUST

Description: Can packet switching termination be denied on this DSL. Enter "Y" to deny termination; enter "N" to allow termination.

Required Field for 5E6 and later

Default: Y

Valid Entries: Y, N

2.14 BILL TN

Description: Enter a valid 7 or 10 digit packet switching telephone number to which charges should be billed for this DSL. No entry is required if the billing number is the same number that was entered in the TN field.

Valid Entries: 7 or 10 digit TN

2.15 RMK

Description: Enter a remarks or brief information.

Valid Entries: 0 - 16 alphanumeric characters

3. FORM ENTRIES - 5447-2 RECORD

3.1 H PVC LCN

Description: Enter the highest assignable PVC (Permanent Virtual Circuit) LCN (Logical Channel Number) to be used by this DSL.

Valid Entries: 1 - 127

Data Rules:

If an entry is made in the H PVC LCN field of the AMLBDSL form, a corresponding PSPVC form must exist. This requires that either a TN exist on an AMLBDSL form, or that a PKT MLHG/TERM combination exists (that matches a DSL NAME ID/DSL NAME RL combination on the OSPSDSL form with SERVICE CLASS of

"XDB"). PSPVC forms are required for assigning PSPVCs (Packet Switching Permanent Virtual Circuits).

Logical Channel Numbers

The following fields (Section 3.2 - Section 3.9) refer to LCNs.

- The IN LCN (Incoming Logical Channel Number) fields control the calls that are to be terminated on the AMLB DSL.
- The 2W LCN The 2W LCN fields control the calls that are to be both originated and terminated on the AMLB DSL.
- The OUT LCN fields control the calls that are to be originated by the AMLB DSL.

Data Rules:

An entry is required in either the IN LCN or 2W LCN fields when "ADMIN" is entered in the D SERV field.

3.2 L IN LCN

Description: The L IN LCN entry is the starting channel number of incoming calls for this DSL. This value and the H IN LCN value limit the number of logical channels that will be handled by the DSL.

Valid Entries: 1 - 127

Data Rules:

If L IN LCN is entered, then H IN LCN must be entered, and vice versa.

If the H PVC LCN field is blank, then L IN LCN must be 1. The value entered in the L IN LCN field must be at least one greater than the entry in the H PVC LCN field.

3.3 H IN LCN

Description: The H IN LCN entry is the upper starting channel number. The L IN LCN value and this value limit the number of logical channels that will be handled by the DSL.

Valid Entries: 1 - 127

Data Rules:

If L IN LCN is entered, then H IN LCN must be entered, and vice versa. The value entered in the H IN LCN field must be greater than or equal to the entry in the L IN LCN field.

3.4 ICB

Description: Are incoming calls barred?

Required Field.

Default Value: N

Valid Entries: Y, N

Data Rules:

For 5E9(1) and earlier, if ICB is "Y", then L/H 2W LCN must be blank.

3.5 L 2W LCN

Description: Enter the starting channel number of two-way calls for this DSL. This value and the value for H 2W LCN limit the number of logical channels that will be handled by the DSL for two-way calls.

Valid Entries: 1 - 127

Data Rules:

If H 2W LCN is entered, then L 2W LCN must be entered, and vice versa. Also, H 2W LCN must be greater than or equal to L 2W LCN.

The entry in the L 2W LCN field must be greater than the entry in the H PVC LCN field

3.6 H 2W LCN

Description: Enter the upper channel number. This value and the value for L 2W LCN limit the number of logical channels that will be handled by the DSL for two-way calls.

Valid Entries: 1 - 127

Data Rules:

If H 2W LCN is entered, then L 2W LCN must be entered, and vice versa. The entry in the H 2W LCN field must be greater than or equal to the entry in the L 2W LCN field.

3.7 L OUT LCN

Description: Enter the starting channel number of outgoing calls on this DSL. The L OUT LCN and H OUT LCN fields limit the number of out-going logical channels that will be handled by the DSL.

Valid Entries: 1 - 127

Data Rules:

If H OUT LCN is entered, then L OUT LCN must be entered, and H OUT LCN must be greater than or equal to L OUT LCN.

The entry in the L OUT LCN field must be greater than the entry in the H PVC LCN field.

If H 2W LCN is entered, then L OUT LCN must be greater than H 2W LCN

3.8 H OUT LCN

Description: Enter the upper channel number for outgoing calls on this DSL. The L OUT LCN and H OUT LCN fields limit the number of outgoing logical channels that will be handled by the DSL.

Valid Entries: 1 - 127

Data Rules:

If L OUT LCN is entered, then H OUT LCN must be entered. The entry in the H OUT LCN field must be greater than the entry in the L OUT LCN field.

The entry in the L OUT LCN field must be greater than the entry in the H 2W LCN field.

3.9 OCB

Description: Are outgoing calls barred, i.e. not permitted? If "Y" is entered in the OCB field, only entries within the closed user group to which the VDT subscribes will be allowed.

Required Field.

Default: N

Valid Entries: Y, N

3.10 X25VER

Description: Enter the X.25 CCITT Standard Version supported for this DTE (Data Terminating Equipment).

Software Release: 5E6 and later

Required Field.

Default: 1984

Valid Entries: 1980, 1984

Data Rules:

If X25VER is 1980 and CUGOA or CUGIA is "Y", then CUGPX must be entered.

3.11 LPS PORT

Description: Is this port used by the adjunct processor of the LPS (Lesson Presentation System) feature? If so, this port cannot be used as an operator port on the switch. This field supports the Lesson Presentation System feature. For more information on this feature, see Division 2, Section 3L.

Software Release: 5E9(1) and later.

Default: N

Valid Entries: Y, N

Data Rules:

If LPS PORT is "Y", then:

CUGIA must be "Y"

CUGOA must be "Y"

H IN LCN must be 1

IA must be "Y"

ICB must be "N"

L IN LCN must be 1

L OUT LCN must be 2

SERVICE CLASS must be "TAOPER"

If LPSPORT is "N" and OSPSSRVCL is "TAOPER", then:

CUGOA must be "N"

CUGIA must be "N"

H IN LCN must not be entered

IA must be "N"

ICB must be "Y"

L OUT LCN must be 1

3.12 MLHG

Description: This field can only be entered on the Recent Change View 21.34. It specifies the D-channel packet multiline hunt group number. This field supports the Lesson Presentation System feature. For more information on this feature, see Division 2, Section 3L.

Software Release: 5E9(1) and later.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

This must equal an HML from view 3.5. View 3.5 must have a LISTED TN and LAST LISTED TN entered and an MLH FEATURE entered which has been defined on view 12.18 with a HUNT TYPE of "PSUCD".

3.13 TERM

Description: This field can only be entered on the Recent Change View 21.34. This field specifies the D-channel packet multiline hunt terminal number. This is used to uniquely identify a member in an MLHG that represents a packet end-point. This field supports the Lesson Presentation System feature. For more information on this feature, see Division 2, Section 3L.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 2015.

3.14 SEND TPC

Description: Enter the send throughput class. This field and the RCV TPC field define the upper limits of the needed throughput for the AMLB DSL. A value higher than the expected maximum should be chosen. For AMLB uses, this value should be 19200.

Required Field.

Default:

5E9(1) and later: 9600

Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600 or 19200.

3.15 RCV TPC

Description: Enter the send and receive throughput classes. These fields define the upper limits of the needed throughput for the AMLB DSL. A value higher than the expected maximum should be chosen. For AMLB uses, this value should be 19200.

Required Field.

Default:

5E9(1) and later: 9600

Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600 or 19200.

3.16 SEND PKT SIZE

Description: Enter the Send Packet Sizes (in bytes).

Required Field.

Default: 128

Valid Entries: 128 or 256 (bytes)

3.17 RCV PKT SIZE

Description: Enter the Receive Packet Sizes (in bytes).

Required Field.

Default: 128

Valid Entries: 128 or 256 (bytes)

3.18 SEND PKTWD

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a sending basis, at any time. If no entry is made in this field, it is set to 2.

Required Field.

Default: 2

Valid Entries:

5E9(1) and later: 1 - 7

Data Rules:

For 5E9(1) and later, if SEND PKTWD is not 2, FCPN must be "Y".

3.19 RCV PKTWD

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a receiving basis, at any time. If no entry is made in the PKT SIZE RCV field, it is set to 2.

Required Field.

Default: 2

Valid Entries:

5E9(1) and later: 1 - 7

Data Rules:

For 5E9(1) and later, if RCV PKTWD is not 2, FCPN must be "Y".

3.20 REV CHARGE

Description: Is reverse charged allowed for the call?

Required Field.

Default: N

Valid Entries: Y, N

3.21 FCPN

Description: Should flow control parameter negotiation indication between the calling and called parties be enabled? When a call is made, a number of parameters are requested by the calling party. These parameters are referred to as negotiated parameters. The negotiated parameters that are allowed will have to be determined based on the needs of the parameters that are supported by the external data base computer's X.25 "front end".

3.22 TPCN

Description: Is Throughput class negotiation for a virtual circuit indicated?

Required Field.

Default: N

Valid Entries: Y, N

3.23 FSA

Description: Does Fast Select acceptance permit the transfer of data in an incoming call packet. Enter "Y" to indicate fast select acceptance.

Required Field.

Default: N

Valid Entries: Y, N

3.24 IA

Description: Is an abbreviated packet telephone number allowed to be used in calls?

Required Field.

Default: N

Valid Entries: Y, N

3.25 IECP DNIC

Description: Enter the IECP (Inter-Exchange Carrier Preselect) DNIC (Data Network Identification Code) used when calls go beyond the 5ESS Switch to which the data base is connected.

Valid Entries: 1111 - 1114 and 2000 - 9000.

Data Rules:

Corresponding PSDNICRI forms are required where the entry in the DNIC field (on the PSDNICRI form) matches the IECP DNIC entry on an AMLBDSL form.

3.26 RATE

Description: Enter the X.25 B1 channel data rate. This field supports the CSIDP (Call Serving Information Delivery Platform). For more information on this special feature, see Division 2, Section 4C13. For the CSIDP feature, this field must be either "56KB" or "64KB" and must match the DIP switch settings of the corresponding T-BR1TE card in the ADTRAN channel bank. The recommended value is "64KB" if the XDB (External Database) is on an ISLU. For the RISLU, the value should be "56KB".

Software Release: 5E8 and later.

Default: 64IK

Valid Entries:

Valid RATE Entries	
Entry	Definition
56K	56 KB data calls
64K	64 KB data calls
64IK	Inverted 64 KB data calls

Data Rules:

If SERVICE CLASS is "XDB", RATE must be entered.

4. FORM ENTRIES - 5447-3 RECORD

CLOSED USER GROUP

The following fields (Section 4.1 - Section 4.4) define information for a CUG (Closed User Group). The VDT/CST may belong to one or more CUGs.

4.1 CUGPX

Description: Enter the Preferential Customer CUG Index.

Valid Entries: 0 - 99

Data Rules:

If no entry is made in the CUGHX field, then no entry is allowed in the CUGPX field. Each entry in the PREFER CUST IDX field must equal one of the entries in the IDX field.

4.2 CUGOA

Description: Are outgoing calls permitted to be made to CUGs other than those specified in the CUG.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If no entry is made in the CUGHX field, then this field must be "N".

For 5E6 and later, if CUGOA or CUGIA is "Y" and X25VER is "1980", then CUGPX must be specified.

4.3 CUGIA

Description: Are incoming calls permitted to be accepted from CUGs other than those specified in the CUG.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If no entry is made in the CUGHX field, then this field must be "N".

If CUGHX is blank, then CUGIA and CUGOA must be "N" and CUGPX must be blank.

For 5E6 and later, if CUGIA is "Y" and X25VER is 1980, then CUGPX must be entered.

4.4 CUGHX

Description: Enter the Highest Customer CUG Index.

Valid Entries: 0 - 99

Data Rules:

If CUGHX is blank, then CUGIA and CUGOA must be "N" and CUGPX must be blank.

If CUGHX is entered, and CUGOA and CUGIA are "N", then CUGPX must be less than or equal to CUGHX.

CUG LIST

The following fields (Section 4.5 - Section 4.7) define information for the Closed User Group List.

4.5 DNIC

Description: Enter the packet switching DNIC (Data Network Identification Code). If all of the members of a closed user group are within the same network, the DNIC is that of the home network. Otherwise, one of the other networks involved should be designated as the coordinating administration.

Valid Entries: 1111 - 1114 and 2000 - 9999

Data Rules:

If either DNIC, ICN or IDX are entered, then all three must be entered.

4.6 ICN

Description: Enter the International Closed user group code. This entry indicates the international CUGs that this DSL is allowed to communicate with. This value is unique for each CUG belonging to the same network.

Valid Entries: 1 - 32767

Data Rules:

If either DNIC, ICN or IDX are entered, then all three must be entered.

4.7 IDX

Description: Enter the customer CUG Index. This is a local CUG that this DSL is allowed to communicate with.

Valid Entries: 0 - 99

Data Rules:

If either DNIC, ICN or IDX are entered, then all three must be entered.

Duplicate IDX entries are not allowed.

The entry in the IDX field must be less than or equal to the entry in the CUGHX field. The highest entry in the IDX field must equal the entry in the CUGHX.

|

FORMS AND FIELDS WHERE LCEN, B RELPIDB AND B TIMESLOT MAY NOT BE DUPLICATED	
FORM	COMBINATION OF FIELDS*
DSL	LCEN, D RELPIDB AND D TIMESLOT
DSL	LCEN, DPIDB and TS
OSPSDSL	LCEN, D RELPIDB and TIMESLOT
DSLAP	LCEN, REL PIDB AND TS
AMLBDL	LCEN, DPIDB AND TS

* LCEN, DPIDB and TS entries may not be duplicated in this combination of fields.

Figure 1 FORMS AND FIELDS WHERE LCEN, DPIDB, AND TS MAY NOT BE DUPLICATED

TS	LGC														,+	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0				3	5	7	9	11				2	4	6	8	10
1	11				3	5	7	9	10				2	4	6	8
2	9	11				3	4	7	8	10				2	4	6
3	7	9	11				3	5	6	8	10				2	4
4	5	7	9	11				3	4	6	8	10				2
5	3	5	7	9	11				2	4	6	8	10			
6		3	5	7	9	11				2	4	6	8	10		
7			3	5	7	9	11				2	4	6	8	10	
8				3	5	7	9	11				2	4	6	8	10
9	11				3	5	7	9	10				2	4	6	8
10	9	11				3	4	7	8	10				2	4	6
11	7	9	11				3	5	6	8	10				2	4
12	5	7	9	11				3	4	6	8	10				2
13	3	5	7	9	11				2	4	6	8	10			
14		3	5	7	9	11				2	4	6	8	10		
15			3	5	7	9	11				2	4	6	8	10	
16				3	5	7	9	11				2	4	6	8	10
17	11				3	5	7	9	10				2	4	6	8
18	9	11				3	4	7	8	10				2	4	6
19	7	9	11				3	5	6	8	10				2	4
20	5	7	9	11				3	4	6	8	10				2
21	3	5	7	9	11				2	4	6	8	10			
22		3	5	7	9	11				2	4	6	8	10		
23			3	5	7	9	11				2	4	6	8	10	
24				3	5	7	9	11				2	4	6	8	10
25	11				3	5	7	9	10				2	4	6	8
26	9	11				3	4	7	8	10				2	4	6
27	7	9	11				3	5	6	8	10				2	4
28	5	7	9	11				3	4	6	8	10				2
29	3	5	7	9	11				2	4	6	8	10			
30		3	5	7	9	11				2	4	6	8	10		
31			3	5	7	9	11				2	4	6	8	10	

Figure 2 TS (TIME SLOT) ASSIGNMENT VS LGC ENTRY AND DPIDB ENTRY

SCREEN 1 OF 2

5ESS Switch

amlbdsl

OFFICE DATA ADMINISTRATION

5447-1/2/3

OSPS DSL PACKET SWITCHING ASSIGNMENT

*1. LCEN	_____	13. BILL TN	_____	LPS PORT N
#2. SERVICE CLASS	_____	14. RMK	_____	MLHG
3. TN	_____	15. H PVC LCN	_____	TERM
#4. RAX	_____	16. L IN LCN	_____	
#5. LCC	_____	17. H IN LCN	_____	
6. ISCN	_____	#18. ICB	N	
7. N2	_____	19. L 2W LCN	_____	
8. T1	_____	20. H 2W LCN	_____	
9. WNDZ	_____	21. L OUT LCN	_____	

10. DPIDB	—	22. H OUT LCN	—
11. TS	—	#23. OCB	N
#12. SUST	Y	24. X25VER	1984

SCREEN 2 OF 2

5ESS Switch

amlbds1

OFFICE DATA ADMINISTRATION

5447-1/2/3

OSPS DSL PACKET SWITCHING ASSIGNMENT

26. SEND TPC	9600	38. RATE	64IK
27. RCV TPC	9600	CLOSED USER GROUP	
28. SEND PKT SIZE	128	39. CUGPX	—
29. RCV PKT SIZE	128	40. CUGOA	N
30. SEND PKTWD	2	41. CUGIA	N
31. RCV PKTWD	2	42. CUGHX	—
32. REV CHARGE	N		
33. FCPN	N	43. CUG LIST	
34. TPCN	N	row	44. DNIC 45. ICN 46. IDX
35. FSA	N	1	— — —
36. IA	N	2	— — —
37. IECF DNIC	—	3	— — —

Figure 3 SAMPLE AMLBDSL FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 4AW: 5448 RECORD**OSPS LISTING SERVICES/CACD INTERFLOW DESTINATION RECORD - INFLDEST****1. GENERAL**

The 5448 Record is available with 5E5 and later Software Releases. The INFLDEST form (5448 Record) is used for selecting a new destination index for Listing Services and CACD (Commercial Automatic Call Distribution) calls that are to be interflowed. An outgoing destination index is assigned based on an incoming destination index, the trunk group number, and a destination office ID.

For each unique combination of the INC CDI and DEST ID fields specified on one or more INFLDEST forms, there must be a corresponding INFLDEST form defined with the wild card TGN value of "9999".

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.27.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL ESS UNIT**

Enter the Base and Control number and Office Name on each record.

2.2 * INC CDI

Description: Enter the Incoming Code Index.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

The entries in the INC CDI and OUTGO CDI fields must not be the same.

For every INC CDI entered on this form, there must be a CDI entered on one of the following forms:

- The CODE INDEX field or the CDI field on the CONFLICT RESOLUTION ENTRIES list, on the LDIT form (5300-3/5 Record);
- For 5E8 and later, the CODE INDEX field or the CDI field on the CONFLICT RESOLUTION ENTRIES list, on the RDIT form (5300-7/8 Record);
- The CODE INDEX field on the MLDIT form (5300-3/5 Record);
- The CODE INDEX field on the PDIT form (5300-2 Record);
- The CODE INDEX field on the INDIT form (5309 Record); or
- For 5E7 and later, the WITH ANI or WITHOUT ANI fields on the AISCLS form (5469 Record).

2.3 * TGN

Description: Enter the Incoming TGN (Trunk Group Number).

Required Field.

Valid Entries:

For 5E10 and earlier 1 - 2000, or 9999

For 5E11 and later: 1 - 4000, or 9999

Data Rules:

For every TGN entered on this form that is not equal to "9999", there must be a corresponding entry in the TGN field of a TKGRP form (5202 Record).

2.4 * DEST ID

Description: This field indicates the new OSPS listing services and C-ACD interflow destination office ID.

Required Field.

Valid Entries: 1 - 9999

Data Rules:

A maximum of 16 unique values are allowed.

2.5 # OUTGO CDI

Description: This required field indicates the Outgoing CDI. The valid range entries range from 1 through 4095.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

The entries in the OUTGO CDI and INC CDI fields must not be the same.

Each OUTGO CDI entry on an INFLDEST form must be defined in the CDI field of at least one RAR form (5301 Record).

The OUTGO CDI field on an INFLDEST form and the OUTGO CDI on another INFLDEST form cannot be the same when the following conditions are met:

- The TGN on one of the INFLDEST forms is between 1 and 2000 and the TGN on the other INFLDEST form is 9999.
- The combination of the INC CDI and DEST ID fields is the same on both INFLDEST forms.

2.6 # DEST NAME

Description: This required field indicates the destination office name. Entries must be unique.

Required Field.

Valid Entries: 4-character alphanumeric
office identifiers

Data Rules:

If DEST ID on this form equals one of the OSPS IDs on the INFLTADP form (5452 Record), then DEST NAME must be identical to the corresponding OFC on the INFLTADP form. (All OSPS IDs must be unique).

infldest	5ESS Switch	—
(5448)	OFFICE DATA ADMINISTRATION	
	OSPS LISTING SERVICES/C-ACD INTERFLOW DESTINATION	

*1. INC CDI	0011
*2. TGN	0157
*3. DEST ID	5040
#4. OUTGO CDI	0021
#5. DEST NAME	NAPL

Figure 1 SAMPLE INFLDEST FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AX: 5449 RECORD

OSPS LINE INFORMATION DATABASE (LIDB) QUERY FORM - LIDBLNQ

1. GENERAL

The 5449 Record is available with 5E5 and later Software Releases, and is used for designating a query destination on a per NPA-NXX or RAO-(0/1)XX basis.

1.1 Line Information Data Base Exchange/ Alternate Billing Service

The LIDB/EABS (Line Information Data Base Exchange Alternate Billing Service) capability provides a LEC (Local Exchange Carrier) OSPS (Operator Services Position System) the ability to obtain billing authorization information from the LIDB via the LEC's SS7 (Signaling System 7) network for interLATA traffic or from the BVA (Billing Validation Application) via AT&T's CCIS6 or DCIS6 network. These capabilities are needed to permit LECs to process Calling Card, Collect, and Bill-To-Third number calls, in an environment where the billing authorization data base is distributed between the LECs and AT&T. A LEC can now either query the AT&T BVA database or the LIDB database.

The 5449 Record defines where a query should be sent to each NXX/(0/1)XX of a given NPA or RAO (Revenue Accounting Office) subgroup. (An NPA or RAO subgroup is a group of calling or BNS (Billed Number Screening) numbers. Refer to Division 2, Section 3I for more detailed information regarding the definition and population of the LIDB feature. Also, for enhancements to this feature, see Division 2, Section 4A81, Division 2, Section 4C1 and Section 4C3.

1.2 EABS Alternate Routing Secured Feature

For 5E8 and later, with the introduction of the EABS Alternate Routing Secured feature, this record may be used to select between two databases capable of processing LIDB format queries for billing validations. When the LIDB field has a value of "N", the database that is queried is an AD (Alternate Destination) if the EABS Alternate Routing secured feature has been activated. If this feature is off, the Alternate Destination is the BVA. If this feature is on, the Alternate Destination is a database capable of processing LIDB queries. For more information on the EABS Alternate Routing Secured feature, see Division 2, Section 4A86.

1.3 5449 Record Fields

The columns in the 5449 Record reflect the following:

NPA/RAO column reflects the NPA/RAO field on this form.

HUND DIGIT column reflects the hundred digit of the START XXX field.

NXX / (0/1)XX columns reflects the entry in the LIDB field ("Y" or "N") for each NXX or (0/1)XX from 000 through 999.

1.4 Cross Check with OSPSOPT Form

A LIDBLNQ form may not be submitted unless at least one of the following fields on the OSPSOPT form (5424 Record) is set to "C".

L CC ATT INER
CC LEC INTER
CC ATT INTRA

CC LEC INTRA
BNS ATT INTER
BNS LEC INTER
BNS ATT INTRA
BNS LEC INTRA

1.5 Recent Change View

The corresponding Recent Change views are 27.32 and 27.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and Office Name on each record.

2.2 *NPA OR RAO

Description: This key field refers to the NPA or RAO of the CC (Calling Card) or BNS numbers.

Valid Entries: 200 - 999

2.3 *START XXX

Description: This second key field indicates the starting office code [NXX or (0/1)XX] for a range of values whose query destination will be entered. The START XXX and END XXX fields enable the definition of query destinations of ranges of NXXs/(0/1)XXs within an NPA/RAO.

The START XXX value and the END XXX value define the office code range of numbers for which the query destination of LIDB or BVA is specified in the RANGE LIDB. Or, if exceptions occur within this range, they are entered in the NXX(0/1)XX field lists, and the LIDB field is entered for each of the exceptions. The remaining numbers in the range receive the default value entered in the L CC DEFAULT and L BNS DEFAULT fields on the OSPSOPT form (Record 5424).

Valid Entries: x00, where x is an integer, for example 000, 200, 600 or 900.

2.4 END XXX

Description: The END XXX field is automatically populated after the START XXX value is entered. The value will be x99, where x is the integer entered as the first number in the START XXX field. For example, if 600 is entered for START XXX, then 699 will be automatically entered for END XXX. Individual exceptions to the range specified by START XXX and END XXX fields are entered in the NXX (0/1)XX LIST.

2.5 RANGE LIDB

Description: Is the LIDB database populated with billing information for the range of values indicated on this form? This field is used only if the entire range of values of START XXX to END XXX have the query destination set to the same database. For example, 600 through 699 range of values should be set to query the AD BVA database. If "Y" is entered, then LEC's LIDB is populated with billing data for the entire range of values. If "N" is entered, then the AD database is populated with billing data for the entire range of values. If the EABS Alternate Routing Special Feature is off, the Alternate Destination is the BVA. If it is on, the Alternate Destination is a database capable of processing LIDB queries.

Valid Entries: Y, N

Data Rules:

If an entry is made in RANGE LIDB, then no further entries should be made on this form.

NXX (0/1)XX LIST

The following fields (Section 2.6 - Section 2.7) define numbers in the range which are exceptions. If the query destinations for the numbers in the range, as specified by START XXX and END XXX, are not the same, those exceptions should be listed in this field and the database destination query entered in the LIDB field. The numbers that are not entered in the list below receive the default value entered in the L CC DEFAULT and L BNS DEFAULT fields on the OSPSOPT form. Therefore, if the L CC DEFAULT/L BNS DEFAULT is "Y" (the query database destination is the LIDB database), list only the three digit office codes that query the BVA database and enter "N" as the LIDB field for each of those office codes.

2.6 XXX

Description: Enter the number which should NOT receive the default value entered in the L CC DEFAULT and L BNS DEFAULT fields on the OSPSOPT form.

Valid Entries: The three digit office code value within the range defined by START XXX and END XXX.

2.7 LIDB

Description: Should the LEC LIDB be the destination database? If "Y" is entered, then the LEC's LIDB is the destination database that is populated with the billing data for this office code. If "N" is entered, then the AD database is the destination database that is populated with the billing data for this office code. If the EABS Alternating Routing secured feature is not activated, the Alternate Destination is the BVA. If it is activated, the Alternate Destination is a database capable of processing LIDB queries.

Valid Entries: Y, N

```
SCREEN 1 OF 4                                5ESS Switch
lidblnq                                     OFFICE DATA ADMINISTRATION
(5449)                                     OSPS LINE INFORMATION DATABASE (LIDB) QUERY
```

```
*1. NPA OR RAO 708                        3. END XXX      399
*2. START XXX 300                        4. RANGE LIDB _
```

5. NXX (0/1)XX LIST

XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB
1. 334	Y	6. ____	—	11. ____	—	16. ____	—	21. ____	—
2. 338	Y	7. ____	—	12. ____	—	17. ____	—	22. ____	—
3. 359	Y	8. ____	—	13. ____	—	18. ____	—	23. ____	—
4. 378	Y	9. ____	—	14. ____	—	19. ____	—	24. ____	—
5. ____	—	10. ____	—	15. ____	—	20. ____	—	25. ____	—

SCREEN 2 OF 4

5ESS Switch

lidblnq
(5449)

OFFICE DATA ADMINISTRATION
OSPS LINE INFORMATION DATABASE (LIDB) QUERY

5. NXX / (0/1)XX LIST

XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB
26. ____	—	31. ____	—	36. ____	—	41. ____	—	46. ____	—
27. ____	—	32. ____	—	37. ____	—	42. ____	—	47. ____	—
28. ____	—	33. ____	—	38. ____	—	43. ____	—	48. ____	—
29. ____	—	34. ____	—	39. ____	—	44. ____	—	49. ____	—
30. ____	—	35. ____	—	40. ____	—	45. ____	—	50. ____	—

SCREEN 3 OF 4

5ESS Switch

lidblnq
(5449)

OFFICE DATA ADMINISTRATION
OSPS LINE INFORMATION DATABASE (LIDB) QUERY

5. NXX / (0/1)XX LIST

XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB
51. ____	—	56. ____	—	61. ____	—	66. ____	—	71. ____	—
52. ____	—	57. ____	—	62. ____	—	67. ____	—	72. ____	—
53. ____	—	58. ____	—	63. ____	—	68. ____	—	73. ____	—
54. ____	—	59. ____	—	64. ____	—	69. ____	—	74. ____	—
55. ____	—	60. ____	—	65. ____	—	70. ____	—	75. ____	—

SCREEN 4 OF 4

5ESS Switch

lidblnq
(5449)

OFFICE DATA ADMINISTRATION
OSPS LINE INFORMATION DATABASE (LIDB) QUERY

5. NXX / (0/1)XX LIST

XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB	XXX	LIDB
76. ____	—	81. ____	—	86. ____	—	91. ____	—	96. ____	—
77. ____	—	82. ____	—	87. ____	—	92. ____	—	97. ____	—
78. ____	—	83. ____	—	88. ____	—	93. ____	—	98. ____	—
79. ____	—	84. ____	—	89. ____	—	94. ____	—	99. ____	—
80. ____	—	85. ____	—	90. ____	—	95. ____	—	100. ____	—

Figure 1 SAMPLE LIDBLNQ FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4AZ: 5451 RECORD OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS FORM - INFLTAP

1. GENERAL

The INFLTAP form (5451 Record) is an ODA (Office Data Administration) input form that is used for Interflow (incoming) Serving Team information for OSPS. This form is available with 5E5 and later Software Releases.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.51.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL

Enter the Base and Control number and Office Name on each record.

2.2 * KEY

Description: This field is used to activate the form; the only valid entry is 1.

Required Field.

Valid Entries: 1

OSPS LIST

The following information (fields Section 2.3 - Section 2.6) is required for each OSPS Switch that is sending interflow data to this switch.

This list consists of four fields. If an entry is made in one field, then entries are required in the remaining three associated fields.

The OSPS LIST was increased to allow a maximum of 100 entries to support the Interflow: Expanding the Number of Incoming Trunk Groups feature (SFID 394). For more information on this feature, see Division 2, Section 4A394.

2.3 OSPS ID

Description: This field indicates the unique ID number of the originating OSPS Switch. This identifier represents the switch from which the interflow data is coming.

Valid Entries: 1 - 9999

2.4 OFC

Description: This field indicates the unique name of the originating OSPS Switch.

Valid Entries: 1 - 4 alphanumeric characters

2.5 BCHTGN

Description: Enter the TGN (Trunk Group Number) for B-channels for incoming Interflow traffic.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The entry in the BCHTGN field cannot equal the entry in the DCHTGN field for this or any other OSPS ID. Each entry in this field must be unique.

For every TGN identified here, a corresponding entry should exist on the TKGRP form (5202 Record), with the corresponding TRK DIR field set to "INC" and the TRKCLS field set to "IFTERM."

2.6 DCHTGN

Description: Enter the TGN (Trunk Group Number) for D-channels for incoming interflow traffic.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

Entries must be unique. The entry in the DCHTGN field cannot equal the entry in the BCHTGN field for this or any other OSPS ID.

For every TGN identified here, a corresponding entry should exist on the TKGRP form, with the corresponding TRK DIR set to "SGNL" and the TRKCLS set to "IFTERM."

```

infltap                                5ESS Switch      —
(5451)                                OFFICE DATA ADMINISTRATION
                                OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS

```

*1. KEY 1

```

                                2. OSPS LIST
OSPS ID   OFC   BCHTGN   DCHTGN           OSPS ID   OFC   BCHTGN   DCHTGN
1. 4040   WCHG   0500     0501           9.  _____  _____  _____  _____
2. 2110   WHEA   0820     0821          10.  _____  _____  _____  _____
3. 4041   LABE   0862     0863          11.  _____  _____  _____  _____
4. 2111   DF12   0560     0561          12.  _____  _____  _____  _____
5.  _____  _____  _____  _____  13.  _____  _____  _____  _____
6.  _____  _____  _____  _____  14.  _____  _____  _____  _____
7.  _____  _____  _____  _____  15.  _____  _____  _____  _____
8.  _____  _____  _____  _____  16.  _____  _____  _____  _____

```

Figure 1 SAMPLE INFLTAP FORM 5E5 - 5E9(2) SOFTWARE RELEASES

SCREEN 1 OF 7
infltap

5ESS Switch
OFFICE DATA ADMINISTRATION

(5451) OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS

*1. KEY 1

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
1. _____	_____	_____	_____	9. _____	_____	_____	_____
2. _____	_____	_____	_____	10. _____	_____	_____	_____
3. _____	_____	_____	_____	11. _____	_____	_____	_____
4. _____	_____	_____	_____	12. _____	_____	_____	_____
5. _____	_____	_____	_____	13. _____	_____	_____	_____
6. _____	_____	_____	_____	14. _____	_____	_____	_____
7. _____	_____	_____	_____	15. _____	_____	_____	_____
8. _____	_____	_____	_____	16. _____	_____	_____	_____

SCREEN 2 OF 7

5ESS Switch

inftap

FFICE DATA ADMINISTRATION

(5451) OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
17. _____	_____	_____	_____	25. _____	_____	_____	_____
18. _____	_____	_____	_____	26. _____	_____	_____	_____
19. _____	_____	_____	_____	27. _____	_____	_____	_____
20. _____	_____	_____	_____	28. _____	_____	_____	_____
21. _____	_____	_____	_____	29. _____	_____	_____	_____
22. _____	_____	_____	_____	30. _____	_____	_____	_____
23. _____	_____	_____	_____	31. _____	_____	_____	_____
24. _____	_____	_____	_____	32. _____	_____	_____	_____

SCREEN 3 OF 7

5ESS Switch

inftap

FFICE DATA ADMINISTRATION

(5451) OSPS (INCOMING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
33. _____	_____	_____	_____	41. _____	_____	_____	_____
34. _____	_____	_____	_____	42. _____	_____	_____	_____
35. _____	_____	_____	_____	43. _____	_____	_____	_____
36. _____	_____	_____	_____	44. _____	_____	_____	_____
37. _____	_____	_____	_____	45. _____	_____	_____	_____
38. _____	_____	_____	_____	46. _____	_____	_____	_____
39. _____	_____	_____	_____	47. _____	_____	_____	_____
40. _____	_____	_____	_____	48. _____	_____	_____	_____

SCREEN 4 OF 7
inftap

5ESS Switch
FFICE DATA ADMINISTRATION

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
49._____	_____	_____	_____	57._____	_____	_____	_____
50._____	_____	_____	_____	58._____	_____	_____	_____
51._____	_____	_____	_____	59._____	_____	_____	_____
52._____	_____	_____	_____	60._____	_____	_____	_____
53._____	_____	_____	_____	61._____	_____	_____	_____
54._____	_____	_____	_____	62._____	_____	_____	_____
55._____	_____	_____	_____	63._____	_____	_____	_____
56._____	_____	_____	_____	64._____	_____	_____	_____

SCREEN 5 OF 7
inftap

5ESS Switch
FFICE DATA ADMINISTRATION

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
65._____	_____	_____	_____	73._____	_____	_____	_____
66._____	_____	_____	_____	74._____	_____	_____	_____
67._____	_____	_____	_____	75._____	_____	_____	_____
68._____	_____	_____	_____	76._____	_____	_____	_____
69._____	_____	_____	_____	77._____	_____	_____	_____
70._____	_____	_____	_____	78._____	_____	_____	_____
71._____	_____	_____	_____	79._____	_____	_____	_____
72._____	_____	_____	_____	80._____	_____	_____	_____

SCREEN 6 OF 7
inftap

5ESS Switch
FFICE DATA ADMINISTRATION

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN	OSPS ID	OFC	BCHTGN	DCHTGN
81._____	_____	_____	_____	89._____	_____	_____	_____
82._____	_____	_____	_____	90._____	_____	_____	_____
83._____	_____	_____	_____	91._____	_____	_____	_____
84._____	_____	_____	_____	92._____	_____	_____	_____

85.	_____	_____	_____	_____	93.	_____	_____	_____	_____
86.	_____	_____	_____	_____	94.	_____	_____	_____	_____
87.	_____	_____	_____	_____	95.	_____	_____	_____	_____
88.	_____	_____	_____	_____	96.	_____	_____	_____	_____

SCREEN 7 OF 7
infltap

5ESS Switch
FFICE DATA ADMINISTRATION

—

2. OSPS LIST

OSPS ID	OFC	BCHTGN	DCHTGN
97. _____	_____	_____	_____
98. _____	_____	_____	_____
99. _____	_____	_____	_____
100. _____	_____	_____	_____

Figure 2 SAMPLE INFLTAP FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4BA: 5452 RECORD OSPS (OUTGOING) INTERFLOW TOLL & ASSISTANCE IDENTIFIERS FORM - INFLTADP

1. GENERAL

The INFLTADP form (5452 Record) is an ODA (Office Data Administration) input form that is used for Destination (outgoing) Interflow Serving Team information for OSPS (Operator Services Position System). This form is available with 5E5 and later Software Releases. This form defines the interflow destinations and associates them with B- and D-channels.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.52.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL

Enter the Base and Control Number and Office Name on each record.

2.2 * KEY

Description: This field activates the form; the only valid entry is 1.

Required Field.

Valid Entries: 1

OSPS LIST

The following information (fields Section 2.3 - Section 2.7) is required for each OSPS Switch that will be receiving interflow traffic from this switch.

This is a list consisting of four fields. If an entry is made in one field, then entries are required in the remaining three associated fields.

2.3 OSPS ID

Description: This field is an identifier of the OSPS Switch that will receive Interflow calls. This field must be unique for each entry.

Valid Entries: 1 - 9999

2.4 OFC

Description: This field indicates the name of the receiving OSPS Switch. Entries in the OFC field must be unique.

Valid Entries: 1 - 4 alphanumeric characters

2.5 BCHTGN

Description: Enter the Trunk Group Number for B-channels for outgoing interflow traffic.

Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

Entries in the BCHTGN field must be unique and cannot be equal to the entry in the DCHTGN field for this or any other OSPS ID.

For every TGN identified here, a corresponding entry must exist on the TKGRP form (5202 Record) with the corresponding TRK DIR field set to "OUT" and the TRKCLS field set to "IFOPER."

2.6 DCHTGN

Description: Enter the Trunk Group Number for D-channels for outgoing interflow traffic. Entries in the DCHTGN field must be unique.

Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

Entries in the DCHTGN field must be unique and cannot be the same as the entry in the BCHTGN field for this or any other OSPS ID.

For every TGN entered here, a corresponding entry should exist on the TKGRP form (5202 Record) with the corresponding TRKCLS field set to "IFOPER" and the TRK DIR field set to "SGNL."

2.7 ISERVTM

Description: This field displays the interflow serving team number associated with the OSPS ID of the OSPS used for interflow call traffic on the RC View 27.52. This is a Recent Change/Verify field, it cannot be entered in ODA.

Software Release: 5E9(1) and later.

Valid Entries: 129 - 144

SCREEN 1 OF 2 5ESS Switch
infltadp OFFICE DATA ADMINISTRATION
(5452) OUTGOING OSPS INTERFLOW TOLL AND ASSISTANCE IDENTIFIERS

*1. KEY 1

2. OSPS LIST					
ROW	OSPS ID	OFC	BCHTGN	DCHTGN	ISERVTM
1	_____	_____	_____	_____	
2	_____	_____	_____	_____	
3	_____	_____	_____	_____	
4	_____	_____	_____	_____	
5	_____	_____	_____	_____	
6	_____	_____	_____	_____	

7 _____
8 _____

SCREEN 2 OF 2

5ESS SWITCH

—

infltadp

OFFICE DATA ADMINISTRATION

(5452)

OUTGOING OSPS INTERFLOW TOLL AND ASSISTANCE IDENTIFIERS

2. OSPS LIST

ROW	OSPS ID	OFC	BCHTGN	DCHTGN	ISERVMTM
9	_____	_____	_____	_____	
10	_____	_____	_____	_____	
11	_____	_____	_____	_____	
12	_____	_____	_____	_____	
13	_____	_____	_____	_____	
14	_____	_____	_____	_____	
15	_____	_____	_____	_____	
16	_____	_____	_____	_____	

Figure 1 SAMPLE INFLTADP FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4BB: 5453 RECORD OSPS INTERFLOW TRANSLATION IDENTIFIERS - INFLTRID

1. GENERAL

The INFLTRID form (5453 Record) is available with 5E5 and later Software Releases. The 5453 Record defines the valid translation identifiers for cooperating Interflow OSPS Switches.

When any cooperating OSPS has a generic retrofit or update requiring translations at this OSPS switch, an update with the new translation identifier is needed. These identifiers are used to insure upward and downward compatibility of the different software levels in an interflow complex.

After an interflow call is interflowed between two switches, the call is processed cooperatively by the two switches. In the process, messages and data are interflowed back and forth between the two switches via OSPS EDSLs (Primary Rate Interfaces). If the two switches are operated under different Software Releases (or BWM levels within a Software Release), a translation of the message and/or data may be necessary.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.50.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Number on each record.

2.2 * KEY

Description: This field is used to activate the form; the only valid entry is 1.

Required Field.

Valid Entries: 1

VALID TRANSLATION IDENTIFIERS

The Valid Translation Identifiers (fields Section 2.4 - Section 2.5) indicates the generic or the associated software, and is used by the cooperating switch to determine if and what type of message translation is needed. The 5453 Record contains the translation ID of this switch and a list of other translation IDs which may be recognized by this switch, and provides application compatibility between this and other switches. If the translation ID in an interflowed message does not match the IDs in the list, the message cannot be translated.

There must be at least one entry in this list.

2.3 THIS TRANS ID

Description: The field is used for Recent Change purposes only.

2.4 TRANS ID

Description: The TRANS ID field defines a translation identifier of the compatible Software Releases. The

first two digits represent the software release and the third digit indicates the level within the software release. For example, the first issue of 5E5 will be 051.

Valid Entries: 51 - 255

2.5 REMARK

Description: This field may be used to enter a remark, such as the Software Release name or point issue.

Valid Entries: 1 - 12 alphanumeric characters

```

inflt rid          5ESS Switch          _
(5453)             OFFICE DATA ADMINISTRATION
                   OSPS INTERFLOW TRANSLATION IDENTIFIERS
  
```

*1. KEY 1
THIS TRANS ID

3. VALID TRANSLATION IDENTIFIERS

TRANS ID	REMARK	TRANS ID	REMARK
1. 051	5E5 (1)	6. ____	_____
2. 061	_____	7. ____	_____
3. ____	_____	8. ____	_____
4. ____	_____	9. ____	_____
5. ____	_____	10. ____	_____

Figure 1 SAMPLE INFLT RID FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4BC: 5454 RECORD OSPS TELEPHONE CREDIT CARD ISSUER IDENTIFICATION - TCCID

1. GENERAL

The TCCID form is an ODA (Office Data Administration) input form that provides for identification of telephone calling cards other than the 14 digit LEC (Local Exchange Carrier) card. This identification will be used in the CAS (Customer Account Service) feature. With the use of CAS Release 2, other TEL (non-AT&T Telecommunication cards) in the CCITT standard format, will also be recognized. Additionally, with CAS 2, certain CCC (Commercial Credit Cards) - such as Mastercard, VISA, American Express, etc, will be accepted if they are in the ISO/ANSI standard format. This form is available with 5E5 and later Software Releases.

1.1 Recent Change View

The corresponding Recent Change View to this form is 27.55.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control GROUP Number and Office Name on each record.

2.2 *ISSUER ID DIGITS

Description: This key field is used for the Issuer ID digits of the TCR (Telephone Credit card). Enter the digits of the issuer ID.

Required Field.

Valid Entries: 00 - 99999999

Data Rules:

Entries which are substrings of other digit entries are not allowed. A substring is defined as a value of ISSUER ID DIGS on one TCCID form, which equals the leftmost digits of the ISSUER ID DIGS entered on another TCCID form. For example: if "5971234" had already been entered as a ISSUER ID DIGS value, then entries of "597" and "59712" would be substrings and would be invalid entries.

The number of digits in ISSUER ID DIGITS plus the sum of ACCT NBR LENGTH + CHECK NBR LENGTH must be less than 20.

For 5E7 and later, if the number of digits entered in the ISSUER ID DIGITS field added to the values of ACCT NBR, CHECK NBR, and PIN is equal to 14, then the corresponding TCCATTR form should not have SIGNALING TYPE of "CCS6" and PREPEND 891 set to "N". TCCATTR form corresponds to this form if the CARD ATTR ID on the TCCATTR form matches the CARD ATTR ID on this form.

For 5E9(2) and later, if the number of ISSUER ID DIGITS is greater than 4, then the corresponding TCCATTR form must have PREPEND 891 set to "N". The corresponding TCCATTR form is found by matching CARD ATTR ID with CARD ATTR ID on the TCCATTR form.

2.3 #CARD ATTR ID

Description: Enter the card attribute identification number. The attributes entered on this form are assigned to this ID.

Software Release: 5E7 and later
Required Field.
Valid Entries: 0 - 63

Data Rules:

Every CARD ATTR ID entered on the TCCID form must have a matching CARD ATTR ID on the TCCATTR form.

2.4 #TRANS TYPE

Description: Enter the number to indicate the translation type to be used when a query is sent from the 5ESS Switch to a 2STP (Signal Transfer Point). The 2STP uses this entry and the internal tables to select the proper database to which the query is routed. The TRANS TYPE should match a TRANS TYPE on a DSAPP form (5537 Record).

Software Release: 5E7 and later
Required Field.
Valid Entries: 0 - 255

2.5 CSR ATTR ID

Description: Enter the Carrier Specific Routing Attribute ID. The CSR ATTR ID is the key into the CSRATTR form which identifies the card vendor country code, the administration ID number which indicates the foreign carrier for that card, and indicates if another carrier for call overflow is allowed.

Software Release: 5E7 and later
Valid Entries: 1 - 200

Data Rules:

If CSR ATTR ID is entered, there must be a corresponding CSRATTR form where the CSR ATTR ID on the CSRATTR form matches the CSR ATTR ID on this form.

For 5E9(1) and later, if CSR ATTR ID is entered, but SIGNALING TYPE is not set to "ICCV" on the TCCATTR form, then one or more corresponding NONUSA forms must be entered. (The corresponding TCCID form is found by matching CARD ATTR ID on the TCCATTR form with CARD ATTR ID on the TCCID form. The corresponding NONUSA form is found by matching COUNTRY on the TCCID form to HOME COUNTRY on the NONUSA form.)

QUANTITY OF DIGITS

The following fields (Section 2.6 - Section 2.10) define the options for the quantity of digits. This label applies only to 5E5 - 5E8.

2.6 ACCT NBR

Description: The name of this field was changed to ACCT NBR LENGTH in 5E9(1). This field name applies to 5E5 - 5E8. See ACCT NBR LENGTH for usage information.

2.7 # ACCT NBR LENGTH

Description: This field represents the quantity of digits in the TCR account field. If CARD TYPE is "CCC", and if the account number has more than one acceptable length (i.e some Visa cards with 13-digit account numbers and some VISA cards with 10-digit account numbers), this field must be 0. If CARD TYPE is "TEL" or "CAS", this field must have an entry. (This field was called ACCT NBR for 5E5 - 5E8.)

Valid Entries: 0 - 14

Data Rules:

This value plus the number of digits entered in ISSUER ID DIGS plus the CHECK NBR value must not exceed a total of 19.

If ACCT NBR on the TCCID form is 0, CARD TYPE on the TCCATTR form must be "CCC".

2.8 #CHECK NBR

Description: The name of this field was changed to CHECK NBR LENGTH in 5E9(1). This field name applies to 5E5 - 5E8. See CHECK NBR LENGTH for usage information.

2.9 # CHECK NBR LENGTH

Description: This required field refers to the digits in the TCR check number field. If the Luhn Check Digit is separate from the account number, enter a 1, else enter 0. (This field was called CHECK NBR for 5E5 - 5E8.)

Required Field.

Valid Entries: 0, 1

Data Rules:

This value plus the number of digits entered in ISSUER ID DIGS plus the ACCT NBR value must not exceed a total of 19.

2.10 #PIN

Description: The name of this field was changed to PIN LENGTH in 5E9(1). This field name applies to 5E5 - 5E8. See PIN LENGTH for usage information.

2.11 # PIN LENGTH

Description: Enter the quantity of digits in the TCR PIN (Personal Identification Number). (This field was called PIN for 5E5 - 5E8.)

Required Field.

Valid Entries: 0 - 13

Data Rules:

If PIN LENGTH is 0, then EXP DATE TRMT must be "N".

2.12 DB LABEL

Description: DB LABEL is used as a heading label on the software alarm and measurements report to identify an individual or group of ICCV (International Credit Card Validation) card issuers. The entry "DFALT" is reserved for use as a "default" group of ICCV card issuers.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 5 alphanumeric characters

Data Rules:

If the SIGNALING TYPE of the corresponding TCCATTR form (found by matching the CARD ATTR ID on both forms) is "ICCV", then this field must match a DB LABEL value on the ICCVDB form (5478 Record).

2.13 COUNTRY

Description: Enter the identifier for the country of the ICCV card issuer.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 3 alphanumeric characters

Data Rules:

For 5E9(1) and later, if the SIGNALING TYPE on the corresponding TCCATTR form (found by matching the CARD ATTR ID values on both forms) is "ICCV", then the TCCID's COUNTRY field must be entered and the value entered must match either an ACCESS CODE on an IDDD form (5307 Record) or a HOME COUNTRY value on a NONUSA form (5477-1 Record).

If SIGNALING TYPE is not set to "ICCV" on the TCCATTR form and CSR ATTR ID is not entered on the corresponding TCCID form, then COUNTRY must not be entered and DB LABEL must be 0 or must not be entered on that TCCID form. (The corresponding TCCID form is found by matching CARD ATTR ID on the TCCATTR form with CARD ATTR ID on the TCCID form.)

2.14 LANGUAGE

Description: Enter the identifier for the language to be used for credit card announcements. If this field is not entered, English is the language that is used.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 3 characters

Data Rules:

If this field is entered, then a matching DISPLAY ID value must be entered on the LANGTBL form.

2.15 ALLOW HOME CALL

Description: Is call completion allowed for a "home" call? If this is an ICCV card, this field indicates whether home country calls are allowed by this card issuer.

Software Release: 5E9(1) and later.

Default: Y

Valid Entries: Y, N

Data Rules:

If "N" is entered, COUNTRY DIRECT NUM must be entered.

If "Y" is entered, COUNTRY DIRECT NUM cannot be entered.

2.16 COUNTRY DIRECT NUM

Description: Enter the card issuer's country direct number. The TCA must enter an 800 number each time ALLOW HOME CALL is set to "N".

Software Release: 5E9(1) and later.

Valid Entries: 10 digits

Data Rules:

If ALLOW HOME CALL is "N", then this field must be entered with the card issuers country direct 800 number.

If ALLOW HOME CALL is "Y", this field cannot be entered.

2.17 DISPOSABLE CARD

Description: Is this a disposable card? A disposable card is a prepaid card which can be used as a gift, a promotional card, or for foreigners traveling in the United States. For more information on Disposable Cards see the Purchase Limits Balance Quotation secured feature in Division 2, Section 4A24.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, the corresponding TCCATTR form must have a SIGNALING TYPE of "CCS7". (The TCCATTR form corresponds if the CARD ATTR ID on the TCCID form matches the CARD ATTR ID on the TCCATTR form.)

For 5E9(1) and later, if "Y" is entered, LANGUAGE must not be entered.

2.18 CARR GRP

Description: Enter a Carrier Group ID for which all carriers within the group will accept this card for billing purposes. If this field is not entered it indicates that all carriers accept this card. The CARR GRP field was added to support the Calling Card Screening by Carrier secured feature (SFID 374). For more information on this feature see Division 2, Section 4A374.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 200

Data Rules:

If CARR GRP is entered, then there must be a matching CARRGRP form (5492 Record) with the same CARR GRP values.

2.19 ISSUER ID TEXT

Description: Enter the issuer ID information displayed at the operator position for calling card calls. The ISSUER ID TEXT and EXP DATE TRMT fields were added to support the ACCS (Automated Calling Card Services) for CCC (Commercial Credit Cards) secured feature (SFID 388).

Software Release: 5E9(2) and later.
Valid Entries: 1 - 6 characters

2.20 EXP DATE TRMT

Description: Should CCC cards be given expiration date treatment instead of the normal PIN treatment?

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PIN LENGTH is 0, then EXP DATE TRMT must be "N".

2.21 QUIET HEAR TRMT

Description: Should Quiet Hear treatment be applied based on the entry for a non-LEC card's Issuer Identifier as defined in the OSPS Card Recognition table? The QUIET HEAR TRMT field was added to support the Quiet Hear secured feature (SFID 402). For more information on the Quiet Hear feature, see Division 2, Section 4A402.

Software Release: 5E9(2) and later.
Required Field.
Default: Y
Valid Entries: Y, N

2.22 VMS ELIGIBLE

Description: Is this card's issuer identifier eligible for Voice Message System (VMS) treatment? For more information, see Division 2, Section 4A418.

Software Release: 5E10(1) and later.
Required Field.
Default: Y
Valid Entries: Y, N

tccid	5ESS Switch	—
(5454)	OFFICE DATA ADMINISTRATION	
	OSPS TELEPHONE CREDIT CARD ISSUER IDENTIFICATION	
*1. ISSUER ID DIGITS	_____	13. DISPOSABLE CARD
#2. CARD ATTR ID	___	14. CARR GRP
#3. TRANS TYPE	___	15. ISSUER ID TEXT
4. CSR ATTR ID	___	16. EXP DATE TRMT
#5. ACCT NBR LENGTH	___	17. QUIET HEAR TRMT
#6. CHECK NBR LENGTH	—	18. VMS ELIGIBLE
#7. PIN LENGTH	___	19. DACC ALLOW
8. ICCV DB LABEL	_____	
9. COUNTRY	_____	

10. LANGUAGE _____
11. ALLOW HOME CALL Y
12. COUNTRY DIRECT NUM _____

Figure 1 SAMPLE TCCID FORM 5E10 SOFTWARE RELEASE

SEC. 4BD: 5455-A/B RECORD

OSPS CAS CONTRACT STATUS RECORD - CASCON

1. GENERAL

The 5455-A Record is available with 5E5 and later Software Releases. It is used for creating a CAS (Customer Account Services) contract table. The contract table is used to verify that a contract exists between AT&T and the LEC (Local Exchange Carrier) such that an AT&T calling card can be used as a billing method for LEC carried calls. For CAS Release 2, this table also defines the contractual status for CCC (Commercial Credit Cards) and other TEL (telecommunication) cards. The contractual status of a complete NPA associated with a billing number can be indicated or if necessary, the individual NXXs status can be defined.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.53.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NPA

Description: Enter the NPA (Numbering Plan Area code).

Required Field.

Valid Entries: 200 - 999

2.3 # NPA STATUS

Description: This is the indicator of the CAS NPA contract status.

Required Field.

Default: A

Valid Entries:

Valid NPA STATUS Entries	
Entry	Definition
A	Allow all NXXs (contract exists).
D	Deny all NXXs (no contract exists).
P	Partial Allow (only some NXXs have contract).

Data Rules:

If the value "P" (Partial Allow) is entered, at least one entry must be made in the LIST OF NXXs. If "A" or "D" is entered, then no entries can be made in the LIST OF NXXs.

2.4 LIST OF NXXs

The LIST OF NXXs indicates whether an NXX has a contract for LEC calls to be charged to an AT&T, CCC, or TEL calling card. Entries are made in the LIST OF NXXs only if the NPA STATUS has a value of "P" (Partial Allow).

Enter "N" (No) in the appropriate space for those NXXs not contracted. Leave blank if a contract exists. The NXXs are arranged in 5-position fields; a change to any 5-position field requires the reentry of all 5 positions.

Data Rules:

At least one entry of "N" must be made on this field if NPA STATUS is "P".

SCREEN 1 OF 3

cascon

(5455-A/B)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS CAS CONTRACT STATUS

*1. NPA 312

#2. NPA STATUS A

3. LIST OF NXXs (200-399)

	01234	56789		01234	56789		01234	56789		01234	56789
1.	200	_____	6.	250	_____	11.	300	_____	16.	350	_____
2.	210	_____	7.	260	_____	12.	310	_____	17.	360	_____
3.	220	_____	8.	270	_____	13.	320	_____	18.	370	_____
4.	230	_____	9.	280	_____	14.	330	_____	19.	380	_____
5.	240	_____	10.	290	_____	15.	340	_____	20.	390	_____

SCREEN 2 OF 3

cascon

(5455-A/B)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS CAS CONTRACT STATUS

3. LIST OF NXXs (400-799)

	01234	56789		01234	56789		01234	56789		01234	56789
21.	400	_____	31.	500	_____	41.	600	_____	51.	700	_____
22.	410	_____	32.	510	_____	42.	610	_____	52.	710	_____
23.	420	_____	33.	520	_____	43.	620	_____	53.	720	_____
24.	430	_____	34.	530	_____	44.	630	_____	54.	730	_____
25.	440	_____	35.	540	_____	45.	640	_____	55.	740	_____
26.	450	_____	36.	550	_____	46.	650	_____	56.	750	_____
27.	460	_____	37.	560	_____	47.	660	_____	57.	760	_____
28.	470	_____	38.	570	_____	48.	670	_____	58.	770	_____
29.	480	_____	39.	580	_____	49.	680	_____	59.	780	_____
30.	490	_____	40.	590	_____	50.	690	_____	60.	790	_____

SCREEN 3 OF 3

cascon

(5455-A/B)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS CAS CONTRACT STATUS

3. LIST OF NXXs (800-999)

	01234	56789		01234	56789		01234	56789		01234	56789
61.	800	_____	66.	850	_____	71.	900	_____	76.	950	_____

62. 810	_____	_____	67. 860	_____	_____	72. 910	_____	_____	77. 960	_____	_____
63. 820	_____	_____	68. 870	_____	_____	73. 920	_____	_____	78. 970	_____	_____
64. 830	_____	_____	69. 880	_____	_____	74. 930	_____	_____	79. 980	_____	_____
65. 840	_____	_____	70. 890	_____	_____	75. 940	_____	_____	80. 990	_____	_____

Figure 1 SAMPLE CASCON FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4BE: 5456-A/B RECORD

OSPS CAS INVERSE CONTRACT STATUS RECORD - CASICON

1. GENERAL

The 5456-A Record is available with 5E5 and later Software Releases. It provides for creating a CAS (Customer Account Services) inverse contract table. This table is used to indicate whether a contract exists between the switch owner and the LEC (Local Exchange Carrier) such that a LEC calling card can be used as a billing method for calls carried by the switch owner. Entries are based on the NPA-NXX or RAO of the LEC calling card number. The contractual status of a complete NPA or RAO (Revenue Accounting Office) number is indicated. In the case of NPA, the individual NXX status can be defined if desired.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.54.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * NUMBER

Description: Enter the NPA (Numbering Plan Area) code or the RAO (Revenue Accounting Office) code.

Required Field.

Valid Entries: 200 - 999

2.3 * TYPE

Description: This field indicates the type of number (NPA or RAO) which has been entered above.

Required Field.

Valid TYPE Entries	
Entry	Definition
N	Numbering Plan Area.
R	Revenue Accounting Office.

2.4 # STATUS

Description: This field is the indicator of the CAS inverse contract status. It indicates whether an NXX has a contract for calls carried by the switch owner to be billed to a LEC calling card.

Required Field.

Default: A

Valid Entries:

Valid STATUS Entries	
Entry	Definition
A	Allow all NXXs or XXXs (contract exists).
D	Deny all NXXs or XXXs (no contract exists).
P	Partial Allow (only some NXXs have contract).

Data Rules:

If "RAO" has been entered as TYPE, then only "A" or "D" are valid entries. Partial Allow ("P") is used only for "NPA" entries.

If "A" or "D" is entered, there must not be any entries in the NXX LIST. If the value "P" (Partial Allow) is entered, then entries must be made in the NXX LIST.

2.5 NXX LIST

Description: This field indicates whether an NXX has a contract for calls carried by the switch owner to be billed to a LEC calling card. Entries are made here only if STATUS has a value of "P" (Partial Allow) and TYPE is "NPA."

Enter "N" (No) in the corresponding space for those NXXs not contracted. Leave blank if a contract exists. The NXXs are arranged in 5-position fields; a change to any 5-position field requires the re-entry of all 5 positions.

Valid Entries: N

Data Rules:

At least one entry of "N" must be made in this field if STATUS is "P".

SCREEN 1 OF 3

casicon

(5456-A/B)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS CAS INVERSE CONTRACT STATUS

NPA/RAO

*1. NUMBER 704

*2. TYPE NPA

#3. STATUS A

4. NXX LIST (200-399)

01234 56789		01234 56789		01234 56789		01234 56789	
1. 200	_____	6. 250	_____	11. 300	_____	16. 350	_____
2. 210	_____	7. 260	_____	12. 310	_____	17. 360	_____
3. 220	_____	8. 270	_____	13. 320	_____	18. 370	_____
4. 230	_____	9. 280	_____	14. 330	_____	19. 380	_____
5. 240	_____	10. 290	_____	15. 340	_____	20. 390	_____

SCREEN 2 OF 3

casicon

(5456-A/B)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS CAS INVERSE CONTRACT STATUS

4. NXX LIST (400-799)

01234 56789		01234 56789		01234 56789		01234 56789	
21. 400	_____	31. 500	_____	41. 600	_____	51. 700	_____
22. 410	_____	32. 510	_____	42. 610	_____	52. 710	_____
23. 420	_____	33. 520	_____	43. 620	_____	53. 720	_____

24. 430 _____	34. 530 _____	44. 630 _____	54. 730 _____
25. 440 _____	35. 540 _____	45. 640 _____	55. 740 _____
26. 450 _____	36. 550 _____	46. 650 _____	56. 750 _____
27. 460 _____	37. 560 _____	47. 660 _____	57. 760 _____
28. 470 _____	38. 570 _____	48. 670 _____	58. 770 _____
29. 480 _____	39. 580 _____	49. 680 _____	59. 780 _____
30. 490 _____	40. 590 _____	50. 690 _____	60. 790 _____

SCREEN 3 OF 3

5ESS Switch

casicon

OFFICE DATA ADMINISTRATION

(5456-A/B)

OSPS CAS INVERSE CONTRACT STATUS

4. NXX LIST (800-999)

01234 56789	01234 56789	01234 56789	01234 56789
61. 800 _____	66. 850 _____	71. 900 _____	76. 950 _____
62. 810 _____	67. 860 _____	72. 910 _____	77. 960 _____
63. 820 _____	68. 870 _____	73. 920 _____	78. 970 _____
64. 830 _____	69. 880 _____	74. 930 _____	79. 980 _____
65. 840 _____	70. 890 _____	75. 940 _____	80. 990 _____

Figure 1 SAMPLE CASICON FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4BF: 5458 RECORD OSPS COMMERCIAL ACD PARAMETERS - CACDPARM

1. GENERAL

The 5458 Record is available with 5E6 and later Software Releases.

This form is used to define OSPS (Operator Services Position System) CACD (Commercial Automatic Call Distributor) and Call Vectoring global parameters residing in the SMs (Switching Modules). Also, the call vectoring limits that can be set by the TCA (Telephone Company Administration) are defined in the 5458 Record. Only one CACDPARM form is entered for an office.

1.1 Commercial ACD

For the 5E4(2) and 5E5 Software Releases, Commercial ACD is activated on the OSPSOPT form (5424 Record). For 5E6 and later, CACD is activated on the CACDPARM form. For 5E9(1) and later, ACD/BRCS global parameters have been added to this form.

Division 2, Section 3D, OSPS Commercial Automatic Call Distributor Services Feature Section gives information on how to provision OSPS CACD features and Call Vectoring.

See Division 2, Section 4A121 for information on how to provision the ACD/BRCS secured feature.

1.2 Call Vectoring

The CTECT form (5460 Record) defines the Call Vectoring Steps. The maximum limits for Call Vectoring steps and delays are defined on this form. The TCA (Telephone Company Administration) can limit the number of vector steps for a call. These limits prevent any infinite loops that may be defined in call vectoring by the CACD customer from consuming unlimited real-time resources. When a given limit is reached, vector processing stops, reorder tone is given to a caller if the call has not yet been queued; or if the call has been queued, it remains in queue. If no limit is specified, no limit is enforced.

Call vectoring steps are divided into a set of categories reflecting their use and real-time load. The vector step categories are:

- Queuing or transferring the call between queues
- Conditional GOTOs based on call queue or serving team state, age of the call at head of the queue or expected delay
- GOTO based on time-of-day or day-of-week
- Announcement or delay with music
- Conditional or unconditional GOTO to another vector

Any vector step that does not fall into one of these categories does not have a limit associated with it other than the limit on total vector steps. Each category has a resettable limit such that if, during vector processing, the limit for the allowable number of steps in that category is reached and vector processing is paused. The pause lasts an amount of time identified for all Call Vectoring pauses established by the TCA. If no pause limit is specified, the pause period shall be five seconds. Each forced pause resets the limits for all categories. In addition, the limits are reset each time a delay step is successfully executed or the call is successfully

routed to an announcement.

In addition to the resettable limits, each category has an absolute limit on the number of steps that each call can sequence. This limit is not reset by the successful execution of a delay step or successful route to an announcement. If a step is encountered during vector processing that exceeds the limit on that step's category, vector processing is stopped for the call. If no limit is specified for steps in a given category, no limit is enforced for steps in that category.

In addition to the above limits, there is a global limit on the length of time that a call can be vectored without being placed in queue. The intent of this limit is to prevent calls from receiving endless vector treatment.

1.3 Recent Change View

The corresponding Recent Change view for this form is 8.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and office name on each record.

2.2 * KEY

Description: This field is the Processor ID and is always 0.

Required Field.

Valid Entries: 0

FEATURE ACTIVATION

The following fields (Section 2.3 - Section 2.4) activate the Commercial ACD features.

2.3 COMMERCIAL ACD

Description: Should CACD be activated? Enter "Y" if CACD should be activated and "N" if it should not be activated.

For 5E4(2) and 5E5, this field is on the OSPSOPT form (5424 Records).

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, the OSPS DA field on the OSPSOPT form (5424 Record) must be "Y".

2.4 CALL VECTORING

Description: Should the Call Vectoring feature be activated? Enter "Y" if Call Vectoring should be activated and "N" if it should not be activated.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E11 and later, if "Y" is entered, COMMERCIAL ACD must be "Y".

ACD/BRCS

For 5E9(1) - 5E10, fields Section 2.5 - Section 2.7 define the office parameters for the ACD/BRCS feature. For 5E11 and later, these fields were moved to the ACDBPARM form, see Division 4, Section 32K.

2.5 SIMINTRA

Description: Enter the maximum number of simultaneous intraoffice forwarded calls allowed as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121. For 5E11 and later, this field was moved to the ACDBPARM form, see Division 4, Section 32K.

Software Release: 5E9(1) - 5E10

Required Field.

Default: 99

Valid Entries: 1 - 99

2.6 SIMINTER

Description: Enter the maximum number of simultaneous interoffice forwarded calls allowed as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121. For 5E11 and later, this field was moved to the ACDBPARM form, see Division 4, Section 32K.

Software Release: 5E9(1) - 5E10

Required Field.

Default: 99

Valid Entries: 1 - 99

2.7 CFMAX

Description: Enter the maximum number of call forwardings as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121. For 5E11 and later, this field was moved to the ACDBPARM form, see Division 4, Section 32K.

Software Release: 5E9(1) - 5E10

Required Field.

Default: 5

Valid Entries: 1 - 32

CALL VECTORING FIELDS

The following fields (Section 2.8 - Section 2.21) specify the maximum limits for Call Vectoring commands (steps) and delays.

ABSOLUTE MAXIMUM LIMITS (A)

The following fields (Section 2.8 - Section 2.14) preceded by an "A" specify the maximum limits for call

vectoring steps.

2.8 A VECTOR XFERS

Description: This field specifies the maximum number of intervector GOTOs that can be processed for a given call. An intervector GOTO is any conditional or unconditional GOTO to a step in another vector. Vector processing is stopped when this limit is reached. If the call has not been previously queued, the caller is provided with reorder. If the call has been previously queued, the caller continues to receive any active delay treatment and remains in the queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If you enter 0 in this field no limit is enforced.

Default: 20

Valid Entries: 0 - 255

2.9 A ACD STAT QRYs

Description: This field specifies the maximum number of "GOTOAGE", "GOTOQUE", "GOTOSTA", "GOTOAVL" and "GOTODLY" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call has not been placed in a queue, the caller is given reorder. If the call has been queued, the caller continues to receive any active delay treatment, such as music, ring or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

When the field is 0, no limit is enforced.

Default: 4

Valid Entries: 0 - 255

2.10 A TOD DOW STPS

Description: This field specifies the maximum number of "GOTOTOD" and "GOTODOW" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is given reorder. If the call is in a queue, the caller receives any active delay treatment and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If 0 is entered no limit is enforced.

Default: 10

Valid Entries: 0 - 255

2.11 A MUS ANNC STPS

Description: This field specifies the maximum number of "MUSIC", "ANNOUNC" or "PROMPT" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If 0 is entered, no limit is enforced.

Default: 10

Valid Entries: 0 - 255

2.12 A QUEUE STPS

Description: This field specifies the maximum number of QUEUE steps that can be processed for a given

call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If 0 is entered, no limit is enforced.

Default: 4

Valid Entries: 0 - 255

2.13 A VECTOR STPS

Description: This field specifies the total number of vector steps a call can go through while waiting for an available agent. The purpose of this field is to detect and terminate endless loops in a CACD customer's vector program. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If 0 is entered, no limit is enforced.

Default: 100

Valid Entries: 0 - 255

2.14 A NOT QUEUED SEC

Description: This field specifies the maximum number of seconds a call can be vectored without being placed in a queue. When this limit is reached, call vector processing is stopped and the caller is provided with reorder.

If 0 is entered, no limit is enforced.

Default: 120

Valid Entries: 0 - 255 (seconds)

2.15 A ANNC SEC

Description: This field specifies the maximum number of seconds an announcement can last, if the call was routed to that announcement and had not been placed in a queue. An announcement is stopped when this limit is reached.

If 0 is entered, no limit is enforced.

Default: 120

Valid Entries: 0 - 255 (seconds)

BETWEEN DELAYS MAXIMUM LIMITS (B)

The following fields (Section 2.16 - Section 2.20) preceded by an "B" specify the maximum limits for steps that can be processed without pausing.

2.16 B VECTOR XFERS

Description: This field specifies the maximum number of intervector GOTOs that can be processed without pausing. An intervector GOTO step is vector processing a conditional or unconditional GOTO another step in another vector. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step, defined on the CVECTOR form (5460 Record) is successfully processed. If the counter reaches

the specified limit, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early, if an agent becomes available during the pause. Any currently active delay treatment continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If 0 is entered, no limit is enforced.

Default: 2

Valid Entries: 0 - 255

2.17 B ACD STAT QRYs

Description: This field specifies the maximum number of "GOTOAGE", "GOTOQUE", "GOTOAVL", "GOTOSTA" and "GOTODLY" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or quiet, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If 0 is entered in this field, no limit is enforced.

Default: 2

Valid Entries: 0 - 255

2.18 B TOD DOW QRYs

Description: This field specifies the maximum number of "GOTOTOD" and "GOTODOW" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step defined on the CTECT form (5460 Record) is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or silence, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If 0 is entered, no limit is enforced.

Default: 6

Valid Entries: 0 - 255

2.19 B MUS ANNC STPS

Description: This field specifies the maximum number of "MUSIC", "ANNOUNC" or "PROMPT" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step, defined on the CTECT form (5460 Record) is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or silence, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If 0 is entered, no limit is enforced.

Default: 1

Valid Entries: 0 - 255

2.20 B QUEUE STPS

Description: This field specifies the maximum number of "QUEUE" steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step, defined on the CTECT form, is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If 0 is entered, no limit is enforced.

Default: 1

Valid Entries: 0 - 255

FORCE PAUSE DELAY

The Call Vectoring Global Pause Period is defined in the following field (Section 2.8).

2.21 PAUSE SEC

Description: This field specifies the length of time (in seconds) that a call can be paused if any of the resettable limits are reached. The value entered in this field must be greater than or equal to 5.

Default: 5

Valid Entries: 5 - 255 (seconds)

VECTOR PROMPT TIMING

The following fields (Section 2.22 - Section 2.23) define the timing for vector prompts.

2.22 FIRST DIGIT

Description: Enter the number of seconds the Call Vector Prompt feature will wait for the first digit in any prompt step.

Software Release: 5E8 and later

Valid Entries: 0 - 64 (seconds)

2.23 OTHER DIGITS

Description: Enter the seconds the Call Vector Prompt feature will wait for all other digits in a multidigit prompt step.

Software Release: 5E8 and later

Valid Entries: 0 - 64 (seconds)

SCREEN 1 OF 2

cacdparm

(5458-1/2)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS COMMERCIAL ACD PARAMETERS

*1. KEY 0

FEATURE ACTIVATION

2. COMMERCIAL ACD Y
3. CALL VECTORING Y

ACD/BRCS

4. SIMINTRA 99
5. SIMINTER 99
6. CFMAX 05

SCREEN 2 OF 2

5ESS Switch

—

cacdparm

OFFICE DATA ADMINISTRATION

(5458-1/2)

OSPS COMMERCIAL ACD PARAMETERS

CALL VECTORING

ABSOLUTE
MAXIMUM LIMITS (A)

4. A VECTOR XFERS 20
5. A ACD STAT QRYS 4
6. A TOD DOW QRYS 10
7. A MUS ANNC STPS 10
8. A QUEUE STPS 4
9. A VECTOR STPS 100
10. A NOT QUEUED SEC 120
11. A ANNC SEC 120

BETWEEN DELAYS
MAXIMUM LIMITS (B)

12. B VECTOR XFERS 2
13. B ACD STAT QRYS 2
14. B TOD DOW QRYS 6
15. B MUS ANNC STPS 1
16. B QUEUE STPS 1

FORCED
PAUSE DELAY

17. PAUSE SEC 5

VECTOR PROMPT TIMING

18. FIRST DIGIT 08
19. OTHER DIGITS 05

Figure 1 SAMPLE CACDPARM FORM 5E9(1) - 5E10 SOFTWARE RELEASES

SCREEN 1 OF 2

5ESS Switch

cacdparm

OFFICE DATA ADMINISTRATION

(5458-1/2)

OSPS COMMERCIAL ACD PARAMETERS

*1. KEY 0

FEATURE ACTIVATION

2. COMMERCIAL ACD N
3. CALL VECTORING N

SCREEN 2 OF 2
 cacdparm
 (5458-1/2)

5ESS Switch —
 OFFICE DATA ADMINISTRATION
 ACD OFFICE PARAMETERS

CALL VECTORING

ABSOLUTE MAXIMUM LIMITS (A)		BETWEEN DELAYS MAXIMUM LIMITS (B)		FORCED PAUSE DELAY
4. A VECTOR XFERS	20	12. B VECTOR XFERS	2	17. PAUSE SEC 5
5. A ACD STAT QRYs	4	13. B ACD STAT QRYs	2	
6. A TOD DOW QRYs	10	14. B TOD DOW QRYs	6	VECTOR PROMPT TIMING
7. A MUS ANNC STPS	10	15. B MUS ANNC STPS	1	18. FIRST DIGIT 08
8. A QUEUE STPS	4	16. B QUEUE STPS	1	19. OTHER DIGITS 05
9. A VECTOR STPS	100			
10. A NOT QUEUED SEC	120			
11. A ANNC SEC	120			

Figure 2 SAMPLE CACDPARAM FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4BG: 5459 RECORD**OSPS COMMERCIAL ACD CALL VECTORING DESTINATION TN - CVDSTTN****1. GENERAL**

The 5459 Record is available with 5E6 and later Software Releases.

This form defines call routing for the Call Vectoring command step ROUTE, which reroutes the caller to another telephone number. The Call Vectoring ROUTE step is defined on the CTECT form (5460 Record). ARG1, an argument in the "ROUTE" step must be populated with DEST NBR, the destination ID defined on this form. The DEST NBR provides the key to this form which gives either the Route Index (RI field) or the destination Telephone Number (TN field) for the rerouted call. The destination telephone number is billed for the forward leg of the call.

1.1 Recent Change View

The corresponding Recent Change View for CVDSTTN is 21.42. For more information on Recent Change Views that correspond to ODA forms, please see Division 0, Section 2.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Number and Office Name on each record.

2.2 * DEST NBR

Description: Enter the destination number ID.

Required Field.

Valid Entries: 1 - 256

Data Rules:

A DEST NBR entered in the ARG1 field of the "ROUTE" step on the CTECT form (5460 Record) requires an entry in this field equal to ARG1.

2.3 TN

Description: Enter a 7- or 10-digit telephone number.

Valid Entries: 7 or 10 digits

Data Rules:

Either a telephone number is entered in this field or a route index is entered in the RI field, but both cannot be entered on a form.

A TN entered on this form requires that the same value is defined on one of the following forms

- ACQS,
- DSLUSR
- LINE
- MLHLN
- MLHG

MLTITIN
MTNDR
PSMTN
SHTN

2.4 RI

Description: Enter a route index.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules:

Either this field or the TN field must have an entry, but not both. An entry in this field requires an equivalent entry in the ROUTE INDEX field on the RTIDX form (5303 Record). The field is restricted to Private Facility trunks, i.e., the trunks have a TKCLS of "PFITT" or "PFLASH" on the TKGRP form.

```
cvdsttn          5ESS Switch          _  
(5459)          OFFICE DATA ADMINISTRATION  
                OSPS COMMERCIAL ACD CALL VECTORING DESTINATION TN  
  
*1. DEST NBR 002  
2. TN      7085107554  
3. RI      _____
```

Figure 1 SAMPLE CVDSTTN FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BH: 5460 RECORD OSPS COMMERCIAL ACD CALL VECTORS FORM - CTECT

1. GENERAL

The 5460 record is available with 5E6 and later Software Releases. This form is used to define Call Vectoring steps that determine how an incoming call is to be treated while waiting for a CACD (Commercial Automatic Call Distributor) agent.

This record is used to identify the vector steps to be applied to a call that has been routed for call vectoring. Included among the steps that can be applied to a call are: placing the call in queue, playing an announcement or music, rerouting the caller to an alternate destination or branching to another step within the current vector or to a step in a different vector.

To apply Call Vectoring treatment to a call, the ACTIVATE field must be set to "Y". If the initial vector is not activated, all calls associated with that vector receive standard call processing treatment.

The REDIR VECTOR field diverts calls to another VECTOR ID to receive alternate Call Vectoring treatment. If the vector specified in the redirection parameter does not exist, the call is placed in its call queue and receives standard call processing treatment. Only one level of redirection is permitted. If the second vector also has a VECTOR ID populated in its REDIR VECTOR field, the second redirection is ignored and the call is provided with Call Vectoring treatment as defined by the second vector.

The initial vector, which redirects to another vector, must be activated. Any vector steps that are associated with a vector referenced during branching to a second vector are performed regardless of the activation state of the second vector.

On a single CTECT form, up to 15 steps or commands can be identified in each vector. However, longer step sequences can be created by chaining vectors together using GOTO commands. The table in Figure 1, Call Vectoring Commands and Associated Arguments, displays the vector commands and their corresponding arguments to allow for the proper handling of the vector command.

The office maximum limits for the vector steps are set on the CACDPARM form (5458 Record). Only one CACDPARM form is entered per office.

Examples of Call Vectoring are given in Figures Figure 2 and Figure 3 at the end of this section.

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.41.

2. BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and office name on each record.

2.1 * VECTOR ID

Description: Enter the call vector number.

Required Field.

Valid Entries:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

2.2 ACTIVATE

Description: Should this vector be activated? Enter "Y" to activate this vector; enter "N" to deactivate it. When this attribute is "N", all calls assigned to this vector receive standard treatment.

Required Field.

Default: N

Valid Entries: Y, N

2.3 REDIR VECTOR

Description: Enter the alternate Vector ID for redirection. Calls that would ordinarily receive call vectoring treatment on this form are redirected to the alternate vector number.

Valid Entries:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

Data Rules:

If the REDIR VECTOR is entered, then another CTECT form must exist which has a VECTOR ID equal to the REDIR VECTOR value on this CTECT form. This field entry cannot equal the VECTOR ID on this CTECT form.

CALL VECTOR STEPS

The following fields (Section 2.4 - Section 2.10) define the call vectoring steps for this VECTOR ID.

2.4 CMD CD

Description: Enter the call vector command code for steps 1 -15. This field defines the function to be performed by this vector step.

Valid CMD CD Entries	
Entry	Definition
ANNOUNC	Connect call to announcement.
ANSWER	Return answer supervision.
BUSY	Forced busy.
DISC	Forced disconnect.
GOTO	Unconditional GOTO.
GOTOAGE	Conditional GOTO based on the age of the call at the head of a queue.
GOTOAVL	Conditional GOTO based on available agents.
GOTODLY	Conditional GOTO based on expected delay.
GOTODOW	Conditional GOTO based on the day of the week.
GOTONUM	Conditional GOTO based on TOUCH-TONE number(s) entered by caller.
GOTOQUE	Conditional GOTO based on the number of calls in a queue.
GOTOSTA	Conditional GOTO based on staffed agents.
GOTOTOD	Conditional GOTO based on the time of day.
MUSIC	Delay caller with music.
NOOP	No operation.
PROMPT	Prompt caller for a number via TOUCH-TONE digit entry.
QUEUE	Queue or transfer call.
QUIET	Delay caller with silence.
REQRTE	Software Release: 5E10 only Request Route call vectoring command for the Third Party Call Control feature. For 5E11 and later, this value was moved to the CMD CD field on the ACDVCT form (5643 Record) to support

	the ACD/BRCS Interworking II feature.
RING	Delay caller with audible ring.
ROUTE	Route call to remote destination.
STOP	Stop operation.

ANNOUNC - Connect call to announcement

This command is used to route a caller to an announcement identified by the RTI (Route Index). An optional error step may be defined to provide alternate treatment to the caller when an announcement channel cannot be obtained. If no error step is specified, vector processing will continue on to the next step.

ARG1 - Valid entries are the route index to the announcement:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4000

For 5E13 and later: 1 - 16382

The ROUTE INDEX on an RTIDX form must equal ARG1. In addition, CI ROUTE TYPE on the RTIDX form must equal "GENANN". In addition A TKGRP form must be entered where TGN equals the TRUNK GROUP NUMBER on the above RTIDX form, TRK DIR is "ANN", and the CYCLES field on the TKGRP form cannot equal 0. Also, a TRUNK form (5204 Record) must be entered where the TGN field equals the TRUNK GROUP NUMBER on the above RTIDX form, and the first member on the TRUNK form must have MEMB equal 0.

ARG2 - must be blank

ERR - blank or 1 - 15 If ERR is 1 - 15

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

ANSWER - Return answer supervision

ARG1 - must be blank

ARG2 - must be blank

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

This command is used to return answer supervision if it has not yet been returned.

BUSY - Forced busy

ARG1 - must be blank

ARG2 - must be blank

ERR - must be blank

COND - must be blank

CARG1 - must be blank
CARG2 - must be blank

This command is used to disconnect a caller from any active delay treatment, remove the caller from queue and return busy tone to the caller prior to disconnecting the call. This command causes the call to be removed from vector processing.

DISC - Forced disconnect

This command is used to disconnect a caller from any active delay treatment, remove the caller from queue and optionally route the caller to an announcement prior to disconnecting the call. This command causes the call to be removed from vector processing. See ANNOUNC command for routing to an announcement.

ARG1 - Valid entries are a blank or the route index to the announcement:

- For 5E10 and earlier: 1 - 3617
- For 5E11 and 5E12: 1 - 4000
- For 5E13 and later: 0 - 16382
- ARG2 - must be blank
- ERR - must be blank
- COND - must be blank
- CARG1 - must be blank
- CARG2 - must be blank

DISC routes the call to the announcement indicated by the route index if given. When specified, the route index must be valid and correspond to a terminating port. The route index is also owned by the CACD customer. The route index in ARG1 must be entered in the ROUTE INDEX field on the RTIDX form (5303 Record) and the CI ROUTE TYPE field on that RTIDX form must equal "GENANN". In addition, A TKGRP form must be entered where TGN equals the TRUNK GROUP NUMBER on the above RTIDX form, the TRK DIR is "ANN", and the CYCLES field on the TKGRP form cannot equal 0. Also, a TRUNK form (5204 Record) must be entered where TGN field equals the TRUNK GROUP NUMBER on the above RTIDX form, and the first member on the TRUNK form must have MEMB equal 0.

GOTO - Unconditional GOTO

This command is used to unconditionally branch to a step in the current vector or to a step in another vector.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank,, then ARG1 must equal the VECTOR ID number on a CVECT form.

ARG2 - Valid entries are 1 - 15, vector step number. ARG2 must be entered.

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

GOTOAGE - Conditional GOTO based on the age of the call at the head of a queue

This command is a conditional GOTO step used to branch to a step in the current vector or to a step in another vector when the specified condition is met. The decision to branch is based on the age of the first call in the specified Call Queue (length of time the first call has been in that queue). An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the age of the first call in queue is greater than 8191 seconds.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number; the argument must be entered.

ERR - Valid entries are blank or 1 - 15, vector step number

COND - Valid entries are GT or LE

CARG1 - Valid entries are 1 - 128, number of the queue, which must equal the OSPS CALL TYPE field on the OSPSCT form (5404 Record). This number must be entered.

CARG2 - Valid entries are 1 - 8191, threshold in seconds for the age of the first call on the specified queue. This number must be entered.

GOTOAVL - Conditional GOTO based on available agents

This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current number of agents who are not busy with a call or made busy in the specified Serving Team. An optional error step can be executed if the AM/CMP is in overload or the query for the serving team status fails. If the query for the serving team status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the number of available agents is zero.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number. This argument must be entered.

ERR - Valid entries are blank or 1 - 15, vector step number

COND - Valid entries are "GT" or "LE". This argument must be entered.

CARG1 - Valid entries are 1 - 128, serving team ID, which must equal an entry in the SERVING TEAM field on the STINFO form (5402 Record). This argument must be entered.

CARG2 - Valid entries are 0 - 4000, threshold for number of serving team. This argument must be entered.

GOTODLY - Conditional GOTO based on expected delay

This command is a conditional GOTO step used to branch to a step in this VECTOR ID or to a step in another VECTOR ID when the specified condition is met. The decision to branch is based on the expected delay for attaching a caller to an agent for calls in the specified Call Queue. An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the expected delay for calls in the queue to be serviced is greater than 8191 seconds.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number. This argument must be entered.

ERR - Valid entries are blank or 1 - 15, vector step number

COND - Valid entries are "GT" or "LE"; this argument must be entered.

CARG1 - Valid entries are 1 - 128, number of the queue, which must equal the OSPS CALL TYPE field on the OSPSCT form (5404 Record). This number must be entered.

CARG2 - Valid entries are 1 - 8191, threshold in seconds for the expected delay for connecting a call to an agent. This argument must be entered.

GOTODOW - Conditional GOTO based on the day of the week

This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current Day-of-Week. One of two conditions can be identified: the current day is Less than or Equal to, "LE", Greater Than, "GT" or Equal to, "EQ", the specified day or the current day is Included in, "IN" or Excluded from, "EX", the specified day range. If the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank,, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15 vector step number; must be entered.

ERR - must be blank

COND - Valid entries are "GT", "LE", "IN", "EQ" or "EX"; must be entered.

CARG1 - Enter day of the week, 1 - 7, where 1 is Monday; must be entered.

CARG2 - must be blank if COND is "GT", "LE" or "EQ"; if COND is "IN" or "EX" then day of the week, 1 - 7, where 1 is Monday; must be entered.

GOTONUM - Conditional GOTO based on TOUCH-TONE number(s) entered by caller

This command is used in conjunction with the PROMPT command to provide branching on caller-entered digits. It is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on evaluation of the digits entered by the caller.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number. ARG2 must be entered.

ERR - blank or 1 - 15

COND - Valid entries are "EQ", "GT" or "LE"; must be entered

CARG1 - Valid entries are caller entered digit, 0 - 32. The digit to be examined for the condition. If no digit is specified, the first digit entered by the customer is examined. This argument is optional.

CARG2 - Enter digit value used to evaluate the condition. This value is compared with the digit indicated by CARG1. Valid entries are, 0 - 9, 11 based on the "#" key or 16 based on the empty digit.

If an entry is made in the CARG1 field, the entry specifies the caller-entered digit to be examined as part of the conditional evaluation. If no entry is made in this field, the first digit is examined. Vector Processing branches to the step specified by the optional error step of a GOTONUM command when the number of caller-entered digits is less than the value populated in the CARG1 field. When this occurs, the branch occurs immediately and evaluation of the condition is bypassed. If no error step is identified, the condition is evaluated even if the specified number of digits are not entered by the customer (the digits not entered by the caller are padded with 'empty' digits and used in the evaluation).

The entry in the CARG2 field identifies a digit value which is used in the evaluation of the condition. This value is compared against the specified caller-entered digit (or the first digit if no entry exists in the CARG1 field) to determine if the condition evaluates to TRUE or FALSE.

GOTOQUE - Conditional GOTO based on the number of calls in a queue.

This command is a conditional GOTO based on the number of calls in a queue. This command may branch to a step in the current vector or to a step in another vector if the number of calls that currently reside in the specified Call Queue is greater than "GT" less than "LE" or equal to "EQ", the specified amount in CARG2. An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this vector ID is executed. If an error step is not specified, the condition is evaluated assuming that number of calls in queue is greater than 5000.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank,, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number; this argument must be entered.

ERR - Valid entries are a blank or 1 - 15, vector step number.

COND - Valid entries are "GT", "LE" or "EQ"; this argument must be entered.

CARG1 - Valid entries are 1 - 128, number of the queue, which must equal the OSPS CALL TYPE field on the OSPSCT form (5404 Record). This number must be entered.

CARG2 - Valid entries are 0 - 5000, threshold for calls in a queue; this argument must be entered.

GOTOSTA - Conditional GOTO based on staffed agents

This command is a conditional GOTO step used to branch to a step in the current vector or to a step in another vector when the specified condition is met. The decision to branch is based on the current number of agents logged-in to the specified Serving Team. An optional error step can be executed if the AM/CMP is in overload or the query for the serving team status fails. If the query for the serving team status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the number of agents logged-in is zero.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank,, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15, vector step number; this argument must be entered.

ERR - Valid entries are blank or 1 - 15, vector step number

COND - Valid entries are "GT" or "LE"; this argument must be entered.

CARG1 - Valid entries are 1 - 128, serving team ID, which must equal an entry in the SERVING TEAM field on the STINFO form (5402 Record). This argument must be entered.

CARG2 - Valid entries are 0 - 4000, threshold for number of agents who are not busy with a call or made busy on the specified serving team members logged-in. This argument must be entered.

GOTOTOD - Conditional GOTO based on the time of day

This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current Time-of-Day. One of four conditions can be identified: the current time is Less than or Equal to, "LE" or Greater Than "GT", the specified time or the current time is Included in "IN" or Excluded from, "EX" the specified time range. If the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed.

ARG1 - Valid entries are blank or a VECTOR ID number:

5E9(2) and earlier: 1 - 256

5E10 and later: 1 - 1024

If ARG1 is not blank, then ARG1 must equal the VECTOR ID number on a CTECT form.

ARG2 - Valid entries are 1 - 15 vector step number. This argument must be entered.

ERR - must be blank

COND - Valid entries are "GT", "LE", "IN" or "EX". One of these conditions must be entered.

CARG1 - Valid entries are hours and minutes of the day. This argument must be entered. 0 - 23, first two digits are the hours of the day, 00 - 59, second two digits are the minutes of the hour

CARG2 - Valid entries are blank if COND is "GT" or "LE". If COND is "IN" or "EX" then valid entries are: 0000 - 2359: 00 - 23, first two digits are the hours of the day; 00 - 59, second two digits are the minutes of the hour.

MUSIC - Delay caller with music

This command provides delay treatment to a caller by routing the call to a music source identified by the Route Index. The route index must be valid and correspond to a terminating port. This route index is also owned by the CACD customer. An optional error step may be defined to provide alternate treatment to the caller if a music channel cannot be obtained. If the route attempt to the music source is unsuccessful and no error step is specified, the caller is provided with audible ring. The length of time that music is to be provided to the caller may be defined.

- If no time limit is specified and the call has been previously queued, vector processing is stopped and the caller continues to hear music until an agent is available or until the caller abandons.
- If no time limit is specified and the caller is not in a queue, the caller will get reorder.
- If no time limit is specified, and the caller is not in a queue and the A NOT QUEUED SEC set to 0 on the CACDPARM form, the caller will get reorder.

ARG1 - Valid entries are the route index:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4000

For 5E13 and later: 1 - 16382

ARG1 must be entered. The ROUTE INDEX on an RTIDX form must equal ARG1. In addition, CI ROUTE TYPE on the RTIDX form must equal "GENANN". In addition, A TKGRP form must be entered where TGN equals the TRUNK GROUP NUMBER on the above RTIDX form, and TRK DIR is "ANN". In addition, on the above TKGRP form, CYCLES must equal 0 and BARGE IN must equal "Y". Also, a TRUNK form (5204 Record) must be entered where TGN field equals the TRUNK GROUP NUMBER on the above RTIDX form and the first member on the TRUNK form must have MEMB equal 0.

ARG2 - Valid entries are blank or 15 - 1023, the duration of the music in seconds.

ERR - blank or 1 - 15

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

NOOP - No operation

ARG1 - any value

ARG2 - any value

ERR - any value

COND - any value

CARG1 - any value

CARG2 - any value

This is the initial state for vectoring commands. This command can be used to temporarily disable steps rather than deleting them. The given step(s) remains intact but they are passed over during vector processing rather than executed.

PROMPT - Prompt caller for a number via TOUCH-TONE dialing

The PROMPT command is a secured feature. See Division 2, Section 4A for information on how to activate a secured feature.

The PROMPT command routes the caller to an announcement which prompts the called for TOUCH-TONE digit entry.

ARG1 - Valid entries are the route index to the announcement:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4000

For 5E13 and later: 1 - 16382

This field must be entered. The ROUTE INDEX on an RTIDX form must equal ARG1. In addition, CI

ROUTE TYPE on the RTIDX form must equal "GENANN". In addition, A TKGRP form must be entered where TRK DIR is "ANN" and the TGN equals the TRUNK GROUP NUMBER on the above RTIDX form. CYCLES must be equal to 1 on the TKGRP form. Also, a TRUNK form (5204 Record) must be entered where TGN field equals the TRUNK GROUP NUMBER on the above RTIDX form, and first member on the TRUNK form must have MEMB equal 0.

ARG2 - Valid entries are 1 - 32, the number of digits expected after prompt announcement. This field must be entered.

ERR - blank or 1 - 15

COND - must be blank

CARG2 - must be blank

This feature provides CACD customers with the ability to route callers to an announcement prior to delivery to an agent. The announcement is used to prompt callers for Touch-Tone input. The digits are collected and then used to provide the following functions:

- To determine the appropriate call queue (and ultimately serving team) to handle the call. This allows a caller to be connected to an agent trained specifically to handle the caller's needs.
- To provide front-end digit collection (such as a credit card number, social security number or zip code). This allows faster call handling as data is available to the agent upon position seizure.

The announcement is provided to a caller through a 13A or similar unit. Digit collection is accomplished through the use of UTDs (Universal Tone Decoders) equipped in the OSM (Originating Switching Module). When a PROMPT command is encountered in a vector, the caller is routed to the announcement unit as specified by the route index given in ARG1. ARG2 specifies the maximum number of digits to collect. Digits entered after the maximum value has been reached are not collected in this PROMPT step. An optional error step may be specified to identify call treatment if an announcement unit cannot be accessed or a UTD is not available.

The UTD is connected to the call prior to routing to the announcement. This allows callers to begin digit entry prior to the completion of the announcement. The path to the announcement is dropped once the first digit is entered. On variable length multi-digit entries, the "#" key may be used to signal early input termination before the specified maximum number of digits has been entered. The "*" key may be used to delete all previously entered digits. This key may be depressed at any time until the caller has entered the maximum number of digits as specified in the PROMPT command. The caller can then begin reentry of the number.

Upon termination of the prompting announcement, the caller has 8 seconds to begin digit entry. Failure to begin digit entry within 8 seconds causes Touch-Tone entry to be terminated and Vector Processing to proceed to the next step. Once digit entry has begun, the caller has 5 seconds between each digit to continue digit entry. Touch-Tone entry is terminated and Vector processing proceeds to the next step if the caller pauses for more than 5 seconds between digits. Failure to obtain an 8 second timer prior to entry of the first digit is treated as an immediate timeout and entry is terminated. Failure to obtain a timer for subsequent digits is ignored and the PROMPT command waits indefinitely for the next digit. Early input termination may also occur:

- When an agent is attached to the call prior to entry of all digits (this may only occur when the call has been queued prior to the PROMPT step)

- When the prompting announcement exceeds the length of time that an announcement can last for a call that has not been previously placed in a queue (this may only occur when the call has not been queued prior to the PROMPT step).

On multi-digit entries, the caller-entered digits are sent to the MIS as part of the vector PROMPT message. The determination of whether an entry is multi-digit or not is based on the value populated in the ARG2 field. The MIS receives a vector PROMPT message for all PROMPT steps in which the value of the ARG2 field is greater than one even if the caller enters only one digit. Single digit entries are not sent to the MIS as they are typically associated with the selection of a call queue and would not be useful to the CACD customer. A partial multi-digit entry is sent to the MIS for any of the early input termination cases discussed above.

Once the caller-entered digits have been collected, the GOTONUM command maybe used. The GOTONUM command contains a conditional argument used to determine the proper handling of a call. If the condition evaluates to TRUE, Call Vectoring treatment branches to the specified step in this VECTOR ID or to a step in another vector. If the condition evaluates to FALSE, the next step in the current vector is processed.

See Figure 2 and Figure 3 for examples of PROMPT command.

For 5E9(2) and later, if CMD CD is "PROMPT", the number of times an announcement may be repeated per call is 1, therefore the CYCLES field on the TKGRP form must be 1.

QUEUE - Queue or transfer call

This command causes a call to be placed in queue if it is not in a queue or transferred to the identified queue if the call has been queued. An error step is executed if the queue attempt fails either because the AM/CMP is in overload or the call could not be queued (e.g. the queue is full).

ARG1 - Valid entries are 1 - 128, number of the queue, which must equal an OSPS CALL TYPE field on the OSPSCT form (5404 Record). This number must be entered.

ARG2 - Valid entries are blank or 1 - 276, the BST display index associated with the call, which must equal the BST DISPLAY INDEX on a corresponding OBSTS form (5408 Record).

ERR - Valid entries are vector step numbers; this parameter cannot be blank.

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

QUIET - Delay caller with silence.

This command provides delay treatment to a caller in the form of silence. The length of time that silence is provided to the caller must be specified.

ARG1 - must be blank

ARG2 - Valid entries are 5 - 1023, duration of quiet in seconds. ARG2 must be entered.

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

REQRTE - Software Release: 5E10 only

Request route call vectoring command for Third Party Call Control.

The REQRTE command is a secured feature (SFID 222) used to route calls to another destination based on the routing information sent by the customer's host computer to the switch. Routing choices allow the system administrator of the host computer to specify a 1 - 10 digit TN, an ACD/BRCS call type queue ID, an ACD/BRCS vector ID, or an ACD/BRCS agent ID. See Division 2, Section 4A222 for more information.

ARG1 - Valid entries are blank or a host computer ID of 1 - 1000

ARG2 - must be blank

ERR - Valid entries are 1 - 15 (required vector step number to execute for error conditions)

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

RING - Delay caller with audible ring

This command provides delay treatment to a caller in the form of audible ring. The length of time that audible ring is to be provided to the caller may be defined.

- If no time limit is specified and the call has been previously queued, vector processing is stopped and the caller continues to hear audible ring until an agent is available or until the caller abandons.
- If no time limit is specified and the caller is not in a queue, the caller will get reorder.
- If no time limit is specified, and the caller is not in a queue and the A NOT QUEUED SEC set to 0 on the CACDPARM form, the caller will get reorder.

ARG1 - must be blank

ARG2 - Valid entries are blank or 5 - 1023 duration of ring in seconds

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

ROUTE - Route call to remote destination

When this command is executed, the call is removed from queue and vector processing is terminated. ARG1 for the ROUTE step is the Destination Number Index and must be defined in the CVDSTTN form (5459 Record). The CVDSTTN form assigns either a 7- or 10-digit telephone number or a route index for routing the caller. The intended use of this command is to reroute calls to another destination when the queue is either closed or full and cannot handle the call.

ARG1 - Valid entries are 1 - 256, destination ID number. This entry must equal a DEST NBR on the CVDSTTN form (5459 Record) which assigns the forwarding telephone number (TN field) or route index (RTI field).

ARG2 - must be blank

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

STOP - Stop operation

ARG1 - must be blank

ARG2 - must be blank

ERR - must be blank

COND - must be blank

CARG1 - must be blank

CARG2 - must be blank

This command is used to halt further vector processing. If the call has not been queued, the caller is provided with reorder. If the call has been queued, any active delay treatment continues and the call remains in queue. The call remains in this state until the caller abandons or the caller is attached to an agent.

2.5 ARG1

Description: Enter the first argument for the vector step. See Figure 1 for types of ARG1 arguments associated with a specific Vector Command.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

If one of the GOTO steps is entered in the CMD CD field and the corresponding ARG1 is greater than 0, then a CTECT form must be entered where VECTOR ID equals that ARG1.

If "MUSIC", "DISC", "PROMPT" or "ANNOUNC" is entered in the CMD CD field, then an RTIDX form (5303 Record) must be entered with a ROUTE INDEX equal to the corresponding ARG1 and a CI ROUTE TYPE on the RTIDX form must equal "GENANN". In addition, a TKGRP form (5202 Record) must be entered where TGN equals the TRUNK GROUP NUMBER on the RTIDX form and TRK DIR on TKGRP form equals "ANN".

For an entry of "ANNOUNC" or "DISC", CYCLES on the above corresponding TKGRP form cannot equal 0. For an entry of "MUSIC", the CYCLES field must equal 0 and BARGE IN must equal "Y" on that corresponding TKGRP form. For an entry of "PROMPT", the CYCLES field on the TKGRP form must be 1.

If "MUSIC", "DISC", "PROMPT" or "ANNOUNC" is entered in this field, then a TRUNK form (5204 Record) must be entered where the TGN equals the TRUNK GROUP NUMBER entry on the RTIDX form and the first member on that TRUNK form must have MEMB equal 0.

2.6 ARG2

Description: Enter the second argument for the vector step. See Figure 1 for types of ARG2 arguments associated with a specific Vector Command. ARG2 of the GOTO steps cannot branch back to the same step.

Valid Entries: 1 - 1023

2.7 ERR

Description: Enter the error treatment vector step number. For example, "MUSIC" can fail to route to a music port if it is already connected to the maximum number of calls it can support. When such a failure occurs, vector processing can be diverted to another vector step by specifying that step in the ERR field.

Valid Entries: 1 - 15

2.8 COND

Description: Enter the conditional specification for a conditional GOTO statement. For example, if "LE" is entered, the branch step occurs if the condition being tested is less than or equal to the entry in CARG1 / CARG2.

Valid COND Entries	
Entry	Definition
LE	Less than or equal to a value
GT	Greater than a value
IN	Included in a range of values
EX	Excluded from a range of values
EQ	Equal to a value

2.9 CARG1

Description: Enter the first conditional GOTO argument of the vector step. See Figure 1 for types of CARG1 arguments associated with a specific Vector Command.

Valid Entries: 0 - 2359

Data Rules:

If "GOTOQUE", "GOTOAGE" or "GOTODLY" is entered in the CMD CD field, then an OSPSCT form must be entered where the OSPS CALL TYPE equals the corresponding CARG1.

2.10 CARG2

Description: Enter the second conditional GOTO argument of the vector step. See Figure 1 for types of CARG2 arguments associated with a specific Vector Command.

Valid Entries: 0 - 8191

CMD CD	ARG1	ARG2	ERR	COND	CARG1	CARG2
NOOP						
STOP						
ANSWER						
BUSY						
DISC	[RTI]					
QUEUE	Queue #	[DISPX]	Step #			
ROUTE	DEST NBR					
ANNOUNC	RTI		[Step #]			
MUSIC	RTI	[15-1023]	[Step #]			
QUIET		5-1023				
RING		[5-1023]				
PROMPT	RTI	1-32	[Step #]			
REQRTE	Host ID		[Step #]			
5E10 only						
GOTO	[Vector #]	Step #				
GOTOQUE	[Vector #]	Step #	[Step #]	GT/LE	Queue #	0-5000
GOTOAGE	[Vector #]	Step #	[Step #]	GT/LE	Queue #	1-8191
GOTODLY	[Vector #]	Step #	[Step #]	GT/LE	Queue #	1-8191
GOTOSTA	[Vector #]	Step #	[Step #]	GT/LE	Serv Team #	0-4000
GOTOAVL	[Vector #]	Step #	[Step #]	GT/LE	Serv Team #	0-4000
GOTOTOD	[Vector #]	Step #		GT/LE	HHMM	
GOTOTOD	[Vector #]	Step #		IN/EX	HHMM	HHMM
GOTODOW	[Vector #]	Step #		GT/LE/EQ	1-7	
GOTODOW	[Vector #]	Step #		IN/EX	1-7	1-7
GOTONUM	[Vector #]	Step #	[Step #]	GT/LE/EQ	[Digit Index]	0-16

[] - Arguments or error steps enclosed in [] are optional.
 DISPX - Display index
 HHMM - Hours and Minutes
 Host ID - ACD/BRCS customer's host computer identification number
 Queue - Queue number of call type ID
 RTI - Route Index
 Serv Team - Serving Team

Figure 1 CALL VECTORING COMMANDS AND ASSOCIATED ARGUMENTS

EXAMPLE 1: CALL VECTOR SCENARIO

Step	CMD CD	ARG1	ARG2	ERR Step	COND	CARG1	CARG2
1	PROMPT	304	2	6			
2	GOTONUM		4		LE		5
3	BUSY						
4	QUEUE	75		6			
5	MUSIC	2015					
6	STOP						

- When the above vector is processed, the caller is routed to the announcement associated with ROUTE INDEX 304.
- The announcement prompts the caller for input. A maximum of 2 digits are accepted, as specified by the value in the ARG2 field.
- After the caller-entered digits have been collected, the "GOTONUM" command is evaluated. Because CARG1 is blank, the first digit entered is compared against the digit 5, the value identified in the CARG2 field.
- If the first digit entered is less than or equal to 5, then the condition is evaluated as TRUE and Vector Processing branches to Step 4 in the current VECTOR ID, as specified by the value in the ARG2 field. Step 4 places the caller in call queue 75 and then provides the caller with the music source associated with ROUTE INDEX 2015 and vector processing stops because a time limit has not been specified in ARG2 of the MUSIC step (step 5). The caller is connected to the music until an agent becomes available for the call or the calling party abandons.

Figure 2 EXAMPLE 1: CALL VECTOR SCENARIO

EXAMPLE 2: CALL VECTOR SCENARIO

Step	CMD CD	ARG1	ARG2	ERR Step	COND	CARG1	CARG2
1	PROMPT	305	32				
2	GOTONUM		5		EQ		11
3	GOTONUM		5		EQ	32	2
4	BUSY						
5	QUEUE	75		7			
6	MUSIC	2015					
7	STOP						

- When the above vector is processed, the caller is routed to the announcement associated with ROUTE INDEX 305.
- The announcement prompts the caller for input. A maximum of 32 digits will be accepted, as specified by the value in the ARG2 field.
- After the caller-entered digits have been collected, the GOTONUM command identified in Step 2 is evaluated. The first digit entered, (CARG1 is blank) is compared against the "#" key, the value identified in the CARG2 field.
- If the first digit entered is equal to "#", then the condition is evaluated as TRUE and Vector Processing branches to Step 5 in the current VECTOR ID, as specified by the value in the ARG2 field. Step 5 indicates that the caller is to be placed in call queue 75 and then Step 6 provided with the music source associated with ROUTE INDEX 2015 and vector processing stops.
- When Step 3 is processed, the 32nd caller-entered digit, as specified by the value in the CARG1 field, is compared against the digit 2, the value identified in the CARG2 field. If the 32nd digit is equal to 2, then the condition is evaluated as TRUE and Vector Processing branches to Step 5 in the current VECTOR ID, as specified by the value in the ARG2 field. If the 32nd digit entered is not equal to 2, the condition is evaluated as FALSE and the next step, Step 4 is processed. Step 4 causes Vector Processing to stop and busy tone to be returned to the caller.

Figure 3 EXAMPLE 2: CALL VECTOR SCENARIO

SCREEN 1 OF 2

5ESS Switch

cvect

OFFICE DATA ADMINISTRATION

(5460)

OSPS COMMERCIAL ACD CALL VECTORS

*1. VECTOR ID _____ 2. ACTIVATE N

3. REDIR VECTOR _____

4. CALL VECTOR STEPS

	CMD CD	ARG1	ARG2	ERR	COND	CARG1	CARG2
1.	_____	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____

SCREEN 2 OF 2

5ESS Switch

cvect

OFFICE DATA ADMINISTRATION

(5460)

OSPS COMMERCIAL ACD CALL VECTORS

4. CALL VECTOR STEPS

	CMD CD	ARG1	ARG2	ERR	COND	CARG1	CARG2

8.	_____	_____	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____	_____	_____
11.	_____	_____	_____	_____	_____	_____	_____
12.	_____	_____	_____	_____	_____	_____	_____
13.	_____	_____	_____	_____	_____	_____	_____
14.	_____	_____	_____	_____	_____	_____	_____
15.	_____	_____	_____	_____	_____	_____	_____

Figure 4 SAMPLE CVECT FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4BI: 5461-1 RECORD**OSPS IMPROVED THIRD NUMBER ACCEPTANCE LINE EXCEPTION - EXCPT****1. GENERAL**

The 5461-1 Record is available with 5E6 and later Software Releases. This record is the ITNA (Improved Third Number Acceptance) Line exception table, and indicates the TIME SET ID for a single line number or for a range of line numbers based on the calling number. See Division 2, Section 3I for more translation information for ITNA.

1.1 TIME SET ID

A TIME SET ID field is first checked on the TREAT form. If the time of day does not fall between the start and stop time specified by that TIME SET ID field or "NEVER" is entered in the TIME SET ID field, then the exception table is referenced to determine if the calling number contains a different TIME SET ID. If a different TIME SET ID is found in the exception table, then it can be determined if the time of day falls between the start and stop times for this TIME SET ID.

The TIME SET ID on this form indicates whether auto outpulsing should always be performed for the calling number or if automatic outpulsing to the third number for acceptance of the charges depends on the time of day.

1.2 Directory Numbers

Directory numbers should never overlap on EXCPT forms. An EXCPT form may not include the same directory number(s) in a range that is also entered on another EXCPT form.

1.3 NPAMAP Form

For every EXCPT form entered, a corresponding NPAMAP form (5414 Record) must be entered where the NPA and NXX are equivalent on both forms.

1.4 Recent Change View

The corresponding Recent Change View for this form is 26.32.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * NPA

Description: Enter the numbering plan area code.

Required Field.

Valid Entries: 200 - 999

Data Rules:

The NPA and NXX combination on this form must equal the same combination on an NPAMAP form.

2.3 * NXX

Description: Enter the exchange office code.

Required Field.

Valid Entries: 200 - 999

2.4 * BEGIN LN

Description: Enter an individual line number or the first line number in a range of consecutive line numbers. The range of directory numbers (NPA-NXX-BEGIN LN through NPA-NXX-END LN) should never overlap between EXCPT forms. A minimum of 5 lines must be entered in a range.

Required Field.

Valid Entries: 0 - 9999

2.5 (*) END LN

Description: Enter the last number in a range of line numbers. This is an optional key field.

Valid Entries: 0 - 9999

Data Rules:

If an entry is made in this field, then an entry must be made in BEGIN LN and the entry in END LN must be greater than the BEGIN LN entry.

2.6 # TIME SET ID

Description: Enter the TIME SET ID. The "TSx" entries are defined by the TCA. This allows for the third party number not to be disturbed during late night hours for verification. An entry of "ALWAYS" specifies auto outpulsing to the third party number should always be performed for the calling number.

Required Field.

Valid Entries: TS1, TS2, TS3, TS4, TS5, TS6, TS7, TS8 or ALWAYS.

Data Rules:

If "TS1", "TS2", "TS3", "TS4", "TS5", "TS6", "TS7" or "TS8" is entered in the TIME SET ID field, a SETID form must be defined with that TIME SET ID.

excpt	5ESS Switch	—
(5461-1)	OFFICE DATA ADMINISTRATION	
	OSPS IMPROVED THIRD NUMBER ACCEPTANCE LINE EXCEPTION	
*1. NPA	708	
*2. NXX	510	
*3. BEGIN LN	6000	
(*) 4. END LN	_____	
#5. TIME SET ID	TS2	

Figure 1 SAMPLE EXCPT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BJ: 5461-2 RECORD**OSPS IMPROVED THIRD NUMBER ACCEPTANCE TIME SET FORM - SETID****1. GENERAL**

The 5461-2 Record is available with 5E6 and later Software Releases. This record defines the associated starting time and stopping time of the TIME SET ID for the ITNA (Improved Third Number Acceptance) feature. The combination of the START HOUR plus the START MINUTE cannot equal the STOP HOUR plus the STOP MINUTE.

1.1 TIME SET ID

The TIME SET IDs are assigned on the EXCPT form (5461-1 Record) and TREAT form (5461-4 Record). TIME SET ID has an associated start and stop time that corresponds to a time range which ITNA feature uses to determine whether it is acceptable to call the third party to obtain verbal acceptance for calling charges. For example, if it is late at night, it may not be acceptable to wake the third party for verbal acceptance.

If the time that the call is attempted takes place between the START HOUR and the STOP HOUR, automatic outpulsing occurs. Otherwise, a message is displayed to the operator indicating that verbal acceptance is required, but the time is inappropriate. See Division 2, Section 3I for translation information for ITNA.

1.2 Recent Change View

The corresponding Recent Change View for this form is 26.30.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * TIME SET ID

Description: Enter the TIME SET ID to be defined. These TIME SET IDs are assigned on the EXCPT form and the TREAT form.

Required Field.

Valid Entries: TS1, TS2, TS3, TS4, TS5, TS6, TS7, TS8.

2.3 # START HOUR

Description: Enter the start hour for the TIME SET ID.

Required Field.

Valid Entries: 00 - 23

2.4 # START MINUTE

Description: Enter the start minute for the TIME SET ID.

Required Field.

Valid Entries: 00 - 59

2.5 # STOP HOUR

Description: Enter the stop hour for the TIME SET ID.

Required Field.

Valid Entries: 00 - 23

2.6 # STOP MINUTE

Description: Enter the stop minutes for the TIME SET ID.

Required Field.

Valid Entries: 00 - 59

```
setid                      5ESS Switch          —
(5461-2)                   OFFICE DATA ADMINISTRATION
                           OSPS IMPROVED THIRD NUMBER ACCEPTANCE TIME SET ID

*1. TIME SET ID   TS2
#2. START HOUR    22
#3. START MINUTE  00
#4. STOP HOUR     06
#5. STOP MINUTE   30
```

Figure 1 SAMPLE SETID FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BK: 5461-3 RECORD

OSPS IMPROVED THIRD NUMBER ACCEPTANCE SPECIAL AREA CODE FORM - SPECL

1. GENERAL

The 5461-3 Record is available with 5E6 and later Software Releases. This record identifies the back third number NPAs which are being designated as special areas and should receive ITNA treatment. If an entry is found for the billing number NPA requested by the back calling party, ITNA treatment will be provided to the call. Otherwise, standard operator practices should be followed. For example, a TCA handles traffic for locations near the Canadian border and uses the Billing Validation Application for Billed Number Screening which returns an indeterminate reply. That TCA may allow the benefits of the ITNA automation by including those NPAs in this form.

See Division 2, Section 3I for translation information for ITNA.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.31.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * KEY

Description: Do not enter this field. This should be not be entered, because only one form is required.

2.3 NPA

Description: Enter the Numbering Plan Area Code(s) for the special area(s).

Required Field.

Valid Entries: 200 - 999

```

specl                                5ESS Switch                _
(5461-3)                            OFFICE DATA ADMINISTRATION
                                OSPS IMPROVED THIRD NUMBER ACCEPTANCE SPECIAL AREA CODE

```

*1. KEY _

2. LIST OF NPAS

1. 416	5. ____	9. ____	13. ____	17. ____	21. ____	25. ____	29. ____
2. 613	6. ____	10. ____	14. ____	18. ____	22. ____	26. ____	30. ____
3. ____	7. ____	11. ____	15. ____	19. ____	23. ____	27. ____	31. ____
4. ____	8. ____	12. ____	16. ____	20. ____	24. ____	28. ____	32. ____

Figure 1 SAMPLE SPECL FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BL: 5461-4 RECORD**OSPS IMPROVED THIRD NUMBER ACCEPTANCE CALL TREATMENT FORM - TREAT****1. GENERAL**

The 5461-4 Record is available with 5E6 and later Software Releases. This record assigns the special and normal SET TIME IDs when the ITNA (Improved Third Number Acceptance) feature is applied to the call. The TIME SET IDs are defined in the SETID form (5461-2 Record) and give the corresponding time range when the third party number is automatically outpulsed for verbal acceptance of the charges. For example, the number is not automatically outpulsed in late evening hours.

See Division 2, Section 3I for translation information for ITNA.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.33.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Group Number and Office Name on each record.

2.2 * ORIG STAT TYPE

Description: Enter the Originating Station Types.

The data fields entered on the TREAT form must be consistent for the same ORIG STAT TYPE.

EXAMPLE: There are three ORIG STAT TYPEs of "PREPCOIN". One form entry has a CARRIER and a TGN entered. The other two only have TGNs entered. This is an error since all the "PREPCOIN" entries must have the same fields entered consistently (they do not have to match). However, it is permissible to have a TGN entered on one and a TGN range entered on another.

Valid ORIG STAT TYPE Entries	
Entry	Definition
0 or OTHER	All others
1 or POSTPCOIN	Postpaid coin
2 or PREPCOIN	Prepaid coin
3 or TRUEHOTL	True hotel ACQS (Automatic Charge Quotation Service) calls
4 or ACQSOTHER	Other types of ACQS calls
5 or UNKNOWN	Type unknown
6 or NCNPUB	Non coin public
7 or NACQSHOTL	Hotel, non-ACQS

Data Rules:

If the TCA does not care what the originating station type is and would like to treat all station types the same, the "UNKNOWN" entry should be used.

2.3 (*) CARRIER

Description: Enter the CARRIER ID. LEC indicates the Local Exchange Carrier.

Valid Entries:

For 5E6 - 5E8: 0 - 999 or LEC

For 5E9(1) and later: 0 - 9999 or LEC

Data Rules:

If CARRIER is entered, BEGIN TGN must be entered.

An entry in this field, other than "LEC", requires an ICF form (5305 Record) to be entered with the CARRIER ID equal to this entry. If no carrier is specified, all carriers are treated the same.

For 5E8 and later, if CARRIER is not "LEC", and BEGIN TGN and END TGN are entered, CARRIER must equal a CARRIER ID on an ICF form, with the ICF form's FEAT GRP equal to "D".

For 5E6 and 5E7, if a CARRIER is entered on any TREAT form, then a CARRIER must be entered on all TREAT forms with that same ORIG STAT TYPE. In addition, there must be at least one TREAT form with the same ORIG STAT TYPE for each ICF form where CARRIER on the TREAT form matches CARRIER ID on the ICF form.

For 5E8 and later, separate all TREAT forms with CARRIER entered into groups which have the same ORIG STAT TYPE. For every ICF form entered in which FEAT GRP is "D", then there must be at least one TREAT form in each group (of the same ORIG STAT TYPE) where the CARRIER on the TREAT form matches the CARRIER ID on the ICF form.

2.4 (*) BEGIN TGN

Description: Enter an individual Trunk Group Number or the first number in a range of Trunk Group Numbers.
Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

If no beginning Trunk Group Number is specified, all incoming operator trunks receive the same treatment.

A minimum of 5 Trunk Group Numbers must be entered in a range. Trunk Group Numbers in a range on one TREAT form should never overlap on the Trunk Group Numbers in a range on another TREAT form.

2.5 (*) END TGN

Description: Enter the last number in a range of Trunk Group Numbers.

Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

If END TGN is entered, BEGIN TGN must also be entered. The END TGN entry must be greater than the BEGIN TGN entry.

2.6 # TIME SET ID

Description: Enter the TIME SET ID.

"ALWAYS" indicates the third party number will always be automatically outpulsed for verbal acceptance of the calling charges.

"NEVER" indicates that acceptance by the third party is not required. However, the EXCPT form (5461-1 Record) will be checked to see if exceptions exist to this case.

Required Field.

Valid Entries: TSx (x=1-8), ALWAYS, or NEVER

Data Rules:

The "TSx" entries are defined on the SETID form, therefore, if "TS1", "TS2", "TS3", "TS4", "TS5", "TS6", "TS7" or "TS8" are entered in this field, there must be a SETID form defining that entry.

When the TREAT form is entered with a TIME SET ID equal to an entry other than "NEVER" or "ALWAYS", a SETID form must be entered with TIME SET ID equal to TIME SET ID on the TREAT form.

treat	5ESS Switch	—
(5461-4)	OFFICE DATA ADMINISTRATION	
	OSPS IMPROVED THIRD NUMBER ACCEPTANCE CALL TREATMENT	
* 1. ORIG STAT TYPE	OTHER	
(*) 2. CARRIER	288	
(*) 3. BEGIN TGN	0123	
(*) 4. END TGN	_____	
# 5. TIME SET ID	TS2	

Figure 1 SAMPLE TREAT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BM: 5462-1 RECORD

OSPS EXTERNAL INFORMATION SYSTEM (EIS) DATA - EISDATA

1. GENERAL

The 5462-1 Record is available with 5E6 and later Software Releases. This record defines the operational parameters for a particular OSPS EIS (External Information System).

Division 2, Section 3C gives the translations for provisioning an EIS and External ARU (Audio Response Unit).

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.51.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * EIS NBR

Description: Enter the External Information System Identification Number that is assigned to the EIS. The EIS NBR is assigned to a particular EIS by the 5ESS Switch owner.

Valid Entries: 1 - 16

Data Rules:

The EIS NBR must match the DATA LINK GRP number on the corresponding OSPSDSL form (5411 Record) for all Call Processing Data Links associated with the EIS.

2.3 # EIS NAME

Description: The External Information System's Name is used to identify the EIS on other input forms. The 1 to 15 character name must be unique.

Required Field.

Valid Entries: 1 - 15 characters

Data Rules:

The entry in this field must match the following:

- EIS NAME is entered on an OPEISDB form (5462-2 Record)
- EIS NAME on the SERVDEST form (5467 Record)
- NAME field on the EISSM form (5462-3 Record)

2.4 # VENDOR

Description: Enter the name of the EIS vendor supplying the EIS.

Required Field.

Valid VENDOR Entries	
Entry	Definition
C or CCI	Software Release: 5E6 and later Computer Consoles Incorporated
CGI	Software Release: 5E7 and later. Computer Generation Incorporated
I or IBM	Software Release: 5E6 and later International Business Machines
NRP	Software Release: 5E10 and later Network Resource Platform. This value supports the AATLSOS AAP AATLSOS - AAP (Alternate Access to Language Specific Operator Services - Automatic Access Prompting) Using CPDL (Call Processing Data Link) Interface feature. For more information on this feature, see Division 2.
TMC	Software Release: 5E9(2) and later. Tele-Matic. This value supports the ICS (Inmate Calling Services) secured feature (SFID 385 or 288). For more information on this feature, see Division 2, Section 4A385.
VDR	Software Release: 5E7 and later. Volt Delta Resource

Data Rules:

CCI:

If "CCI" is entered, "SET1" is automatically entered in MSG SET.

CGI:

If "CGI" is entered:

- "SET3" is automatically entered in MSG SET.
- When PRE OPER EIS is entered on the SERVDATA form, and the corresponding EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) has "CGI" entered as the VENDOR, then OSPS SVC CODE on the SERVDATA form must be "SPCL700". If VENDOR is not "CGI" on the EISDATA form, OSPS SVC CODE must not be "SPCL700" on the SERVDATA form. (For more information on Specialized Handling for 700 Services secured features, see Division 2, Section 4A69 and Section 4A89.)

IBM:

If "IBM" is entered:

- "SET2" is automatically entered in the MSG SET field.
- The IBMRNGS form must be submitted.
- The SERVICE CLASS on the OSPSDSL form is "EIS"
- EIS NBR on the EISDATA form matches DATA LINK GRP on the OSPSDSL form), and the DATA LINK NBR on the OSPSDSL form must be less than 255.
- PRE OPER EIS on the SERVDATA form matches EIS NAME on this form and OSPS SVC CODE on the SERVDATA form must be either "IBMLS" or "IBMINCPT".

NRP:

If VENDOR is "NRP", then MSG SET is set to "SET6".

TMC:

If "TMC" is entered, "SET5" is automatically entered in MSG SET.

If PRE OPER EIS is entered on the SERVDATA form, and the corresponding EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) has "TMC" entered as the VENDOR, then OSPS SVC CODE on the SERVDATA form must be "INMATE".

When PRE OPER EIS is entered on the SERVDATA form, and the corresponding OSPS SVC CODE on the SERVDATA form is "INMATE", the associated EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) must have "TMC" entered as the VENDOR.

VDR:

If "VDR" is entered, then "SET4" is automatically entered in MSG SET.

2.5 MSG SET

Description: The MSG SET field identifies the message sets supported by the EIS software interface. This field cannot be entered. It is set automatically when the VENDOR field is entered.

Valid MSG SET Entries	
Entry	Definition
SET1	Software Release: 5E6 and later. CCI message set.
SET2	Software Release: 5E6 and later. IBM message set.
SET3	Software Release: 5E7 and later. CGI message set.
SET4	Software Release: 5E7 and later. VDR message set.
SET5	Software Release: 5E9(2) and later. TMC message set. This value supports the Inmate CallingServices feature (SFID 385). For more information on this feature, see Division 2, Section 4A385.
SET6	Software Release: 5E10 and later This value supports the AATLSOS AAP AATLSOS - AAP (Alternate Access to Language SpecificOperator Services - Automatec Access Prompting) Using CPDL (Call Processing Data Link) Interface feature. For more information on this feature, see Division 2,

2.6 SWITCH ID

Description: The Switch Identification number is a number assigned by the EIS to this 5ESS Switch.

Required Field.

Default: 0

Valid Entries: 0 - 255

2.7 MSG DELAY

Description: Message Delay is the number of 50 millisecond intervals that OSPS waits for an expected message response from the specified EIS. The default of 100 milliseconds should result in a delay of 5 seconds.

Required Field.

Default: 100

Valid Entries: 1 - 1023

2.8 MAX CALLS

Description: The Maximum Calls per link indicates the maximum number of calls to be assigned to the CPDL. This value is based on the expected number of messages required for calls that can be assigned to the CPDLs on a given EIS and the holding time of those calls. It is assumed that all CPDLs to a vendor have the same call handling capacity. If more calls occur than the MAX CALL entry for all CPDLs associated with the EIS on a single SM, these calls will be routed to an operator and must be handled manually.

Required Field.

Default: 60

Valid Entries: 1 - 255

2.9 MAX MSGS

Description: This is the maximum number of application messages per second that can be received and sent over a CPDL operating during normal conditions.

Required Field.

Default: 10

Valid Entries: 1 - 255

2.10 NEW EIS NAME

Description: This is a Recent Change field used to assign a new name to an existing EIS.

```

                                5ESS Switch      —
eisdata                        OFFICE DATA ADMINISTRATION
(5462_1)                       OSPS EXTERNAL INFORMATION SYSTEM (EIS) DATA

* 1. EIS NBR      01
# 2. EIS NAME     NSCEIS
# 3. VENDOR       CCI
  4. MSG SET      SET1
  5. SWITCH ID    002
  6. MSG DELAY    0100
  7. MAX CALLS    60
  8. MAX MSGS     10

      FOR UPDATE ONLY

      _____
      NEW EIS NAME

```

Figure 1 SAMPLE EISDATA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BN: 5462-2 RECORD OSPS OPERATOR TO EIS AND DATA BASE MAPPING - OPEISDB

1. GENERAL

The 5462-2 Record is available with 5E6 and later Software Releases.

The 5462-2 Record assigns the EIS (External Information System) name and database key from the operator terminal to a particular serving team and service ID. This allows the proper database display and EIS interface to be provided to an operator when a call is routed to the operator's position. This is based on the operator's serving team and the service ID of the call.

The following forms may be required for OPEISDB form entries.

- STINFO form (5402 Record) is required to define the serving team number.
- SERVDATA form (5466 Record) is required to define a SVC ID (Service Identification) number.
- EISDATA form (5462-1 Record) is required if the EIS NAME is entered on this form.
- OPEXTDB form (5435 Record) is required if the TERM DB KEY is entered on this form.

Division 2, Section 3C discusses the translations required for Listing Services.

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.55.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * SERVING TEAM

Description: Serving Team number is the identification number of the the group of operators to provide a specific service.

Required Field.

Valid Entries: 1 - 128.

Data Rules:

This Serving Team number must be defined on an STINFO form (5402 Record).

2.3 * SVC ID

Description: The SVC ID (Service Identification) number defines a particular type of service.

Required Field.

Valid Entries: 1 - 1023

Data Rules:

SVC ID must be defined on a SERVDATA form (5466 Record). Each EIS NAME and SVC ID on an OPEISDB form (5462-2 Record) must have exactly one OSPS CALL TYPE on an OSPSCT form (5404 Record), which is used as the Listing Services Recall Call Type. If LIST SVC RECALL is "Y" on an OSPSCT form, OSPS CALL TYPE is used as the Listing Services Recall Call Type for the EIS NAME on the OPEISDB form pointed to by the SERVING TEAM and SVC ID on this OSPSCT form.

2.4 EIS NAME

Description: The External Information System name is given by the 5ESS Switch to identify a particular EIS.
Valid Entries: 1 - 15 characters

Data Rules:

The EIS NAME is defined on an EISDATA form (5462-1 Record).

2.5 TERM DB KEY

Description: The TERM DB KEY (Database Key) number on the operator's VDT terminal (for 5E6 and later Software Releases) is assigned to a particular serving team and EIS identification number. The BST-LS may not utilize this field, even though it is populated for a given serving team.

Valid TERM DB KEY Entries	
Entry	Definition
MAINDB	Main data base key
DB1	Soft key 1 of the operator's terminal
DB2	Soft key 2 of the operator's terminal
DB3	Soft key 3 of the operator's terminal
DB4	Soft key 4 of the operator's terminal
DB5	Soft key 5 of the operator's terminal
DB6	Soft key 6 of the operator's terminal
DB7	Soft key 7 of the operator's terminal
DB8	Soft key 8 of the operator's terminal
DB9	Soft key 9 of the operator's terminal
DB10	Soft key 10 of the operator's terminal
DB11	Soft key 11 of the operator's terminal
DB12	Soft key 12 of the operator's terminal
DB13	Soft key 13 of the operator's terminal
DB14	Soft key 14 of the operator's terminal

Data Rules:

If a TERM DB KEY is entered, the key must be defined on one or more OPEXTDB forms (5435 Record), and the SERVING TEAM and TERM DB KEY fields on both forms must match. Also, DB NAME must be the same on all OPEXTDB forms associated with the same OPEISDB form (5462-2 Record). If a TERM DB KEY is not entered, NO data base key will be activated.

```

                                5ESS Switch
opeisdb                        OFFICE DATA ADMINISTRATION
(5462-2)                       OSPS OPERATOR TO EIS AND DATABASE MAPPING

```

```

* 1. SERVING TEAM  012
* 2. SVC ID        0101

```

3. EIS NAME ARU1
4. TERM DB KEY DB10

Figure 1 SAMPLE OPEISDB FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BO: 5462-3 RECORD OSPS SM SPECIFIC DATA FOR EIS - EISSM

1. GENERAL

The 5462-3 Record is available with 5E6 and later Software Releases.

The 5462-3 Record defines the EIS (External Information System) data specific to a particular SM. This form indicates the EIS has been assigned CPDLs (Call Processing Data Links) on this SM and specifies the minimum number of CPDLs needed to support the SM during the busy hour. It also indicates if this SM supports 5ESS Switch and EIS message interaction prior to an operator being attached to the call, i.e., pre-operator services directed by the EIS. Note that the number of CPDLs for each SM attached to an EIS can be different than the minimum number required to handle busy hour traffic. The MIN LINKS field is used by maintenance to permit a conditional removal of a CPDL from service if more CPDLs are in service than the MIN LINKS number.

The following forms are required with this form:

- EQIM form (5700-1/2 Record), where the SM number on EQIM matches the SM number on the EISSM form. The CONFIGURATION entry on the EQIM form must be "LOADED".
- OSPSDSL form (5411 Record) with a SERVICE CLASS entry of "EIS". The SM on the EISSM form must match the SM portion of the LCEN on the OSPSDSL form.
- EISDATA form (5462-1 Record) must have an entry in the EIS NAME field that matches the NAME field in the EISSM form.
- SERVDATA form (5466 Record): if the PRE OPER EIS field has an entry, then a corresponding EISSM form must exist with PRE OPER equal "Y", and NAME on the EISSM form must match the PRE OPER EIS field on the SERVDATA form.

Division 2, Section 3C contains information on the translations for an External ARU (Audio Response Unit).

1.1 Recent Change View

The corresponding Recent Change view for this form is 21.52. For more information on Recent Change views that correspond to ODA forms, please see Division 0, Section 2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * SM

Description: Enter the SM number that has CPDLs assigned to the EIS for this SM.

Required Field.

Valid Entries: 1 - 192

Data Rules:

An EQIM form (5700-1/2 Record) must be submitted for this SM and the CONFIGURATION field on the EQIM form must be "LOADED". If the SERVICE CLASS is "EIS" on the OSPSDSL form (5411 Record) and on a corresponding EISDATA form (5462-1 Record) the EIS NBR field on the EISDATA form matches the DATA LINK GRP on the OSPSDSL form, then the SM on the EISSM form must match the SM portion of the LCEN on the OSPSDSL form.

EIS DATA

Enter the data for the CPDLs in the next three fields (Section 2.3 - Section 2.5). At least one entry is required in each of the fields under EIS DATA.

2.3 NAME

Description: Enter the same EIS NAME specified on the corresponding EISDATA form (5462-1 Record).
Valid Entries: 1 - 15 characters

Data Rules:

If SERVICE CLASS is "EIS" on an OSPSDSL form (5411 Record), and on the corresponding EISDATA form the EIS NBR field matches the DATA LINK GRP on the OSPSDSL form, then the NAME on EISSM form must match the EIS NAME on the EISDATA form.

2.4 MIN LINKS

Description: Enter the minimum number of links assigned for each EIS. This is the minimum number of links required during the busy hour. The minimum number of links cannot be greater than the number of links assigned on the OSPSDSL form (5411 Record) for this SM and EIS.

A major alarm is sounded if the number of CPDLs in service falls below the number specified in this field. The determination of the minimum number of links required is based on the number of EIS calls that are handled by a particular EIS SM, the average work time for such calls and the average number of EIS messages associated with each of those calls. Initially this number must be an approximation until actual usage statistics are monitored to determine if greater or fewer CPDLs are required.

Valid Entries: 0 - 16

2.5 PRE OPER

Description: Are the CPDLs on this SM to be used to communicate with the EIS prior to an operator being attached to the call? The pre-operator services are controlled by the EIS, therefore, this feature must be supported by the associated EIS vendor. Enter "N" if this SM does not communicate with the EIS prior to an operator seizure.

Valid Entries: Y, N

```

                                5ESS Switch
eissm                          OFFICE DATA ADMINISTRATION
(5462-3)                        OSPS SM SPECIFIC DATA FOR EIS

```

* 1. SM 005

```

                2. EIS DATA
NAME           MIN LINKS       PRE OPER

```

1. NSCEIS	04	N
2. _____	—	—
3. _____	—	—
4. _____	—	—
5. _____	—	—
6. _____	—	—
7. _____	—	—
8. _____	—	—

Figure 1 SAMPLE EISSM FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BP: 5463 RECORD OSPS COUNTRY CODE TO COUNTRY NAME MAPPING FORM - CCNAME

1. GENERAL

The 5463 Record is available with 5E6 and later Software Releases. The form is used to map Country Number to a 15-character country name. This information is used for DIOR (Direct International Origination) calls. It also specifies whether automated calling card initial and sequence calls are allowed from this country. If the DIOR Sequence Call Enhancements feature is active, then it can specify automated initial and sequence calls by carrier within a country number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.81. The view number was changed from 27.7 to 27.81 enabling all new views to be grouped together which were added to support the various DIOR features.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * COUNTRY NUMBER

Description: Enter the DIOR (Direct International Originations) country number.

Required Field.

Valid Entries: 200 - 999

2.3 COUNTRY NAME

Description: Enter the Country Name associated with the Country Number.

Valid Entries: 1 to 15 characters

2.4 AUTO HNDLG ALLOW

Description: Are DIOR initial and sequence calls eligible for automated handling?

Default: N

Valid Entries: Y, N

2.5 IDDD CAC

Description: Enter the IDDD (International Direct Distance Dialing) CAC (Country Access Code) that corresponds to the country number specified in the COUNTRY NUMBER field, with the exception of 809. If the IDDD CAC is 809, enter the NXX (see the IS 809 NXX field below.) The fields IDDD CAC and IS 809 NXX were added for the DIOR (Direct International Originations) Toll Free 800 feature. For more information on this feature, see Division 2, Section 3K on DIOR features.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 808, 810 - 999

Data Rules:

IDDD CAC cannot be 0.

If IDDD CAC is entered, IS 809 NXX must be entered, and conversely if this field is not entered, IS 809 NXX must not be entered.

2.6 IS 809 NXX

Description: Is the code entered in the IDDD CAC field the NXX for a Caribbean country code?

Software Release: 5E9(1) and later.

Required Field.

Default: N (5E9(2) and later)

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then IDDD CAC must be entered.

2.7 AP QUEUE

Description: Should the Automated Position queue be used when an automated call needs to be sent to a position from this country? The AP QUEUE field supports the DIOR Automated Initial Calls Release 3 feature. For more information on this feature, see Division 2, Section 3K on DIOR features.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.8 NRA CC

Description: Enter a country code other than the IDDD CAC (International Direct Distance Dialing Country Access Code) for DIOR NRA (Network Remote Access) calls originating from the country specified in the COUNTRY NUMBER field. This country code is used to determine call completion permissions. This field should not be entered (i.e., blank) if the IDDD CAC is used for NRA calls. The NRA CC field was added to support the DIOR (International Originations) Network Remote Access feature. For more information on this feature, see Division 2, Section 3K on provisioning DIOR features.

Software Release: 5E9(2) and later.

Valid Entries: 1 - 999

CARRIER HANDLING PERMISSIONS (CARRHNDLG)

The following fields (Section 2.9 - Section 2.12) define the carrier handling permissions for each possible carrier for a country number. This is a positional list where each element corresponds to a particular possible carrier. If a carrier does not exist for a country, these list element entries must be left blank.

The list of carrier permissions supports the DIOR Sequence Call Enhancements special feature. For more information on this feature, see Division 2, Section 3K.

Data Rules:

For each carrier, AUTO INIT, AUTO SEQ, DIOR OTTO, and APQ must all be entered or all be blank.

2.9 AUTO INIT

Description: Are automated initial calls allowed from this carrier? This field indicates if DIOR initial calls are eligible for automated handling by this carrier.

Software Release: 5E9(1)

Valid Entries: Y, N

Data Rules:

For each carrier, AUTO INIT, AUTO SEQ, DIOR OTTO, and APQ must all be entered or all be blank.

2.10 AUTO SEQ

Description: Are automated sequence calls allowed from this carrier? This field indicates if DIOR sequence calls are eligible for automated handling by this carrier.

Software Release: 5E9(1)

Valid Entries: Y, N

Data Rules:

For each carrier, AUTO INIT, AUTO SEQ, DIOR OTTO and APQ must all be entered or all be blank.

2.11 DIOR OTTO

Description: Is the DIOR OTTO (Offer Transfer To Operator) feature available to this carrier?

Software Release: 5E9(1)

Valid Entries: Y, N

Data Rules:

For each carrier, AUTO INIT, AUTO SEQ, DIOR OTTO, and APQ must all be entered or all be blank.

2.12 APQ

Description: Should the Automated Position queue be used when an automated call from this carrier needs to be sent to a position? The APQ field supports the DIOR Automated Initial Calls Release 3 feature. For more information on this feature see Division 2, Section 3K on DIOR features.

Software Release: 5E9(2) and later.

Valid Entries: Y, N

Data Rules:

For each carrier, AUTO INIT, AUTO SEQ, DIOR OTTO, and APQ must all be entered or all be blank.

AFRICA	
COUNTRY NAME	COUNTRY NUMBER
Egypt	200
Morocco	212
Algeria	213
Tunisia	216
Libya	218

Gambia	220
Senegal	221
Mauritania	222
Mali	223
Guinea	224
Ivory Coast	225
Bourkina Fasso	226
Niger Rep	227
Togolese Rep	228
Benin	229
Mauritius	230
Liberia	231
Sierra Leone	232
Ghana	233
Nigeria	234
Chad	235
Cnt African Rep	236
Cameroon	237
Cape Verde	238
Sao Tome	239
Equator. Guinea	240
Gabonese Rep	241
Congo	242
Zaire	243
Angola	244
Guinea-Bissau	245
Diego Garcia	246
Ascension Is.	247
Seychelles	248
Sudan	249
Rwandese Rep	250
Ethiopia	251
Somali Dem Rep	252
Djibouti	253
Kenya	254
Tanzania	255
Uganda	256
Burundi	257
Mozambique	258
Zanzibar	259
Zambia	260
Madagascar	261
Reunion	262
Zimbabwe	263
Namibia	264
Malawi	265
Lesotho	266
Botswana	267
Swaziland	268
Comoros	269
South Africa	270

Figure 1 COUNTRY NUMBERS

EUROPE	
COUNTRY NAME	COUNTRY NUMBER
Faroe Islands	298
Greenland	299
Greece	300
Netherlands	310
Belgium	320
France	330
Andorra	331
Monaco	332
Spain	340
Gibraltar	350
Portugal	351
Luxembourg	352

Ireland	353
Iceland	354
Albania	355
Malta	356
Cyprus	357
Finland	358
Bulgaria	359
Hungary	360
German Dem Rep	370
Yugoslavia	380
Italy	390
San Marino	391
Vatican City	392
Romania	400
Switzerland	410
Liechtenstein	411
Czechoslovakia	420
Austria	430
United Kingdom	440
Denmark	450
Sweden	460
Norway	470
Poland	480
Germany (FRG)	490

Figure 2 COUNTRY NUMBERS

CENTRAL AMERICA/SOUTH AMERICA	
COUNTRY NAME	COUNTRY NUMBER
Falkland Is.	500
Belize	501
Guatemala	502
El Salvador	503
Honduras	504
Nicaragua	505
Costa Rica	506
Panama	507
St. Pierre	508
Haiti	509
Peru	510
Mexico	520
Mexico	521
Mexico	522
Mexico	523
Mexico	524
Mexico	525
Mexico	526
Mexico	527
Mexico	528
Mexico	529
Mexico(see also Carribean)	
Cuba	530
Guantanamo Bay	539
Argentina	540
Brazil	550
Chile	560
Colombia	570
Venezuela	580
Guadeloupe	590
Bolivia	591
Guyana	592
Ecuador	593
Guiana	594
Paraguay	595
Martinique	596
Suriname	597
Uruguay	598
Netherlands Ant	599

Aruba	297

Figure 3 COUNTRY NUMBERS

SOUTHEAST ASIA/AUSTRALIA/SOUTH PACIFIC	
COUNTRY NAME	COUNTRY NUMBER
Malaysia	600
Australia	610
Indonesia	620
Philippines	630
New Zealand	640
Singapore	650
Thailand	660
Mariana Islands	670
Guam	671
Australian Terr	672
Brunei	673
Nauru	674
Papula	675
Tonga	676
Solomon Islands	677
Vanuatu	678
Fiji	679
Palau	680
Wallis/Futuna	681
Cook Islands	682
Niue Island	683
American Samoa	684
Western Samoa	685
Kiribati Rep	686
New Caledonia	687
Tuvalu	688
French Polynes.	689
Tokelan	690
Micronesia	691
Marshall Is.	692

Figure 4 COUNTRY NUMBERS

USSR/CARRIBEAN/ASIA	
COUNTRY NAME	COUNTRY NUMBER
USSR	700
Anguilla	710
Antigua	711
Bahamas	712
Barbados	713
Bermuda	714
Br. Virgin Is.	716
Cayman Is.	717
Dominica	718
Dominican Rep	719
Grenada	720
Jamaica	721
Montserrat	722
St. Kitts	726
St. Lucia	727
St. Vincent	728
Trinidad/Tobago	729
Turks/Caicos	730
Mexico	759
St. Eustatius	793
Saba	794
St. Maarten	795
Costa Rica	796
Bonaire	797
Curacao	799
Japan	810
Korea	820

Viet Nam	840
Dem Rep Korea	850
Hong-Kong	852
Macao	853
Dem Kampuchea	855
Lao Dem Rep	856
China (PRC)	860
Bangladesh	880
Taiwan	886
Turkey	900
India	910
Pakistan	920
Afghanistan	930
Sri Lanka	940
Burma	950
Maldives	960
Lebanon	961
Jordan	962
Syrian Arab Rep	963
Iraq	964
Kuwait	965
Saudi Arabia	966
Yemen Arab Rep	967
Oman	968
Yemen	969
United Arab Em.	971
Israel	972
Bahrain	973
Qatar	974
Mongolian Rep	976
Nepal	977
Iran	980

Figure 5 COUNTRY NUMBERS

```
*1.  COUNTRY NUMBER      _____      4.  IDDD CAC      _____
#2.  CONNTRY NAME        _____      5.  IS 809 NXX     _
3.  AUTO HNDLG ALLOW N
```

6. CARRIER HANDLING PERMISSIONS (CARRHNDLG)									
AUTO AUTO DIOR					AUTO AUTO DIOR				
ROW	CARRIER	INIT	SEQ	OTTO	ROW	CARRIER	INIT	SEQ	OTTO
1	0	—	—	—	6	5	—	—	—
2	1	—	—	—	7	6	—	—	—
3	2	—	—	—	8	7	—	—	—
4	3	—	—	—	9	8	—	—	—
5	4	—	—	—	10	9	—	—	—

Figure 6 SAMPLE CCNAME FORM 5E9(1) SOFTWARE RELEASE

ccname	5ESS Switch	OFFICE DATA ADMINISTRATION

(5463) OSPS COUNTRY NUMBER TO COUNTRY NAME MAPPING

*1. COUNTRY NUMBER _____ 4. IDDD CAC _____ 7. NRA CC _____
 #2. CONNTRY NAME _____ 5. IS 809 NXX N
 3. AUTO HNDLG ALLOW N 6. AP QUEUE N

8. CARRIER HANDLING PERMISSIONS (CARRHNDLG)

AUTO AUTO DIOR						AUTO AUTO DIOR					
ROW	CARRIER	INIT	SEQ	OTTO	APQ						
ROW	CARRIER	INIT	SEQ	OTTO	APQ						
1	0	—	—	—	—	6	5	—	—	—	—
2	1	—	—	—	—	7	6	—	—	—	—
3	2	—	—	—	—	8	7	—	—	—	—
4	3	—	—	—	—	9	8	—	—	—	—
5	4	—	—	—	—	10	9	—	—	—	—

Figure 7 SAMPLE CCNAME FORM 5E9(2) SOFTWARE RELEASE

SEC. 4BQ: 5464 RECORD OSPS INTERNATIONAL TERMINATING RESTRICTIONS - TPRINTL

1. GENERAL

The 5464 Record is available with 5E6 and later Software Releases. For 5E6 - 5E9(1), this form was the TPRCC form for OSPS Terminating Country Permission. For 5E9(2) and later, this form is the OSPS International Terminating Restrictions form, TPRINTL. This form defines the countries that DIOR (Direct International Originations) can terminate to. For those DIOR calls allowed to terminate to certain foreign countries, the DIOR service provider (the carrier for the call) and each allowable terminating Country Code must be specified in this form.

The OSPS International Terminating Restrictions provides TERM CC and ADDITIONAL DIGITS information to screen/restrict calls to specific international forward numbers or groups of numbers. It also specifies the treatment to be given to DIOR, AATOS, AATLSOS, and wireless call types to the entered international forward numbers or groups of numbers.

The terminating end of a DIOR call is not permitted to route to a foreign country unless that carrier and Country Code have been entered in this form.

For a listing of country names and associated Country Codes refer to the CCNAME form (5463 Record).

1.1 Terminating Point Restrictions for International Numbers

For 5E9(2) and later, ITPR (Terminating Point Restrictions for International Numbers) is a feature that must be purchased by the office before the TPRINTL forms can be used. Therefore, the ACT field for SFID 387 on the SFSYS form (5713-1 Record) must be "Y", before any entries are made on this form.

1.2 Recent Change View

The corresponding Recent Change View for this form is 27.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CARRIER ID

Description: Enter the ID number of the carrier that will provide DIOR service to the country specified in the COUNTRY CODE field.

Valid Entries: 0 - 9999

Data Rules:

For 5E9(1) and earlier, Each entry in this field requires a duplicate entry in the CARRIER ID field on an ICF form (5305 Record), and for 5E8 - 5E9(1) and later, the ICF form's FEAT GRP must equal "D".

For 5E9(1) only, if the value in this field matches the value of the CARRIER ID on the ICF with "D" entered in the FEAT GRP field, then the CARRIER TYPE on the ICF form must be either "INC" or "CONSOL".

For 5E9(2) and later, the only value entered is 0288.

2.3 * COUNTRY CODE

Description: The name of this field was changed to TERM CC in 5E9(2). This field name applies to 5E9(1) and earlier. See TERM CC for usage information.

2.4 * TERM CC

Description: Terminating Country Code of the international forward number which is used to screen the call for restrictions. This field was called COUNTRY CODE for 5E9(1) and earlier.

Required Field.

Valid Entries: 1 - 999

Data Rules:

For 5E10 and later, TERM CC cannot be 0.

2.5 (*) ADDITIONAL DIGITS

Description: The ADDITIONAL DIGITS field more precisely identifies any screening to be done beyond the TERM CC. Leave blank to specify the TERM CC only, or enter enough digits such that the number of digits in the TERM CC field added to the number of digits in this field add up to a total of 4 to 6 digits, or enter an entire international forward number except for the country code.

If any digits are entered in this field, the total number of digits calculated by adding the length of the TERM CC field and this field must be at least 4.

If a total of 4 to 6 digits are entered between the two fields, all calls of the types below to any international forward number that consists of the same first 4- to 6-digits receive the treatment indicated for that call type.

If no digits are entered in this field, treatment specified below for any given call type is given on all calls to the country code entered in the TERM CC field.

If 7 or more digits are entered, they are assumed to be an entire international forward number, and matching is only attempted on the entire digit string for screening purposes.

Software Release: 5E9(2) and later.

Valid Entries: 0 - 14 digits

2.6 EXPLANATION

Description: The EXPLANATION field is a no-change field that displays a reminder of how the data entered in the ADDITIONAL DIGITS field will be used. This field cannot be entered.

If a total of 7 or more digits is entered in a combination of the TERM CC and ADDITIONAL DIGITS fields the phrase "Full Number Match Only" is displayed; otherwise, the phrase "Any Partial Number Match" is displayed.

Software Release: 5E9(2) and later.

2.7 DIOR TRMT

Description: OSPS International Terminating Restriction Treatment given to DIOR calls.

Software Release: 5E9(2) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid DIOR TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.8 AATOS TRMT

Description: OSPS International Terminating Restriction Treatment given to AATOS calls.

Software Release: 5E9(2) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid AATOS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.9 AATLSOS TRMT

Description: OSPS International Terminating Restriction Treatment given to AATLSOS calls.

Software Release: 5E9(2) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid AATLSOS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.10 WIRELESS TRMT

Description: OSPS International Terminating Restriction Treatment given to WIRELESS calls.

Software Release: 5E9(2) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid WIRELESS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.

RESTR	Restricted. Send to operator (operator override allowed).

2.11 QUIET HEAR TRMT

Description: Should Quiet Hear treatment be applied on an international forward number as defined in the OSPS International Terminating Restrictions table?

The QUIET HEAR TRMT field was added to support the Quiet Hear feature. For more information on this feature, see Division 2, Section 4A402.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

```

tprcc                                5ESS Switch      _
(5464)                             OFFICE DATA ADMINISTRATION
                                   OSPS TERMINATING COUNTRY PERMISSIONS

```

*1. CARRIER 001

*2. COUNTRY CODE 353

Figure 1 SAMPLE TPRCC FORM 5E6 - 5E9(1) SOFTWARE RELEASES

```

tprintl                                5ESS Switch      _
(5464)                             OFFICE DATA ADMINISTRATION
                                   OSPS INTERNATIONAL TERMINATING RESTRICTIONS

```

```

      CARRIER ID      0288
*2. TERM CC          _
(*) 3. ADDITIONAL DIGITS _
      EXPLANATION      _
5. DIOR TRMT        ALLOW
6. AATOS TRMT       ALLOW
7. AATLSOS TRMT     ALLOW
8. WIRELESS TRMT    ALLOW
9. QUIET HEAR TRMT  N

```

Figure 2 SAMPLE TPRINTL FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 4BR: 5465 RECORD OSPS TERMINATING NPA NXX RESTRICTIONS FORM - TPRNPA

1. GENERAL

The 5465 Record is available with 5E6 and later Software Releases. This form defines the terminating point restrictions data for a DIOR (Direct International Origination) call with a domestic forward number.

An entry in this record indicates that a DIOR call is not allowed to terminate to the identified NPA or NPA NXX.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CARRIER

Description: Enter the carrier ID number of the carrier providing DIOR service for the call.

Valid Entries: 0 - 9999

Data Rules:

For every CARRIER entry on this form, a corresponding ICF form must have "D" entered in the FEAT GRP field. Forms correspond if the entry in this field is equal to the entry in the CARRIER ID field on the ICF form.

2.3 * NPA

Description: Enter the Numbering Plan Area code.

Valid Entries: 200 - 999

2.4 (*)NXX

Description: Enter the Office Code.

Valid Entries: 0 - 999

Data Rules:

If LINE is entered, NXX must be entered.

2.5 (*) LINE

Enter the forward line number (the local DN minus the office code). If this field is blank, the entire NPA or entire NPA and NXX is specified. The LINE, DIOR TRMT, AATOS TRMT, AATLSOS TRMT, and WIRELESS TRMT fields support the TPR (Terminating Point Restrictions) Expansion feature. For more information on this feature, see Division 2, Section 4A371.

Data Rules:

If LINE is entered, then NXX must be entered.

2.6 DIOR TRMT

Description: Enter the type of Terminating Point Restriction Expansion treatment to be given to DIOR calls. The LINE, DIOR TRMT, AATOS TRMT, AATLSOS TRMT, and WIRELESS TRMT fields support the TPR (Terminating Point Restrictions) Expansion feature. For more information on this feature, see Division 2, Section 4A371

Software Release: 5E9(1) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid DIOR TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.7 AATOS TRMT

Description: Enter the type of Terminating Point Restriction Expansion treatment to be given to AATOS calls.

Software Release: 5E9(1) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid AATOS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.8 AATLSOS TRMT

Description: Enter the type of Terminating Point Restriction Expansion treatment to be given to AATLSOS calls.

Software Release: 5E9(1) and later.

Required Field.

Default: ALLOW

Valid Entries:

Valid AATLSOS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.9 WIRELESS TRMT

Description: Enter the type of Terminating Point Restriction Expansion treatment given to wireless calls.

Software Release: 5E9(1) and later.

Required Field.
 Default: ALLOW
 Valid Entries:

Valid WIRELESS TRMT Entries	
Entry	Definition
ALLOW	Call Allowed.
ANN	Blocked. Send to Announcement
OPER	Blocked. Send to Operator.
RESTR	Restricted. Send to operator (operator override allowed).

2.10 QUIET HEAR TRMT

Description: Should Quiet Hear treatment be applied on a domestic forward number as defined in the OSPS Terminating NPA NXX Restrictions Table?

This field supports the QUIET HEAR feature. For more information on this feature, see Division 2, Section 4A402.

Software Release: 5E9(2) and later.

Required Field.
 Default: Y
 Valid Entries: Y, N

```

tprnpa                      5ESS Switch          _
(5465)                      OFFICE DATA ADMINISTRATION
                             OSPS TERMINATING NPA-NXX RESTRICTIONS

    *1. CARRIER 288
    *2. NPA      201
    (*) 3. NXX   999
  
```

Figure 1 SAMPLE TPRNPA FORM 5E6 - 5E8 SOFTWARE RELEASES

```

tprnpa                      5ESS Switch          _
(5465)                      OFFICE DATA ADMINISTRATION
                             OSPS TERMINATING NPA-NXX RESTRICTIONS

    *1. CARRIER      _____
    *2. NPA           _____
    (*) 3. NXX        _____
    (*) 4. LINE       _____
    5. DIOR TRMT     ALLOW
    6. AATOS TRMT    ALLOW
    7. AATLOS TRMT   ALLOW
    8. WIRELESS TRMT ALLOW
  
```

Figure 2 SAMPLE TPRNPA FORM 5E9(1) SOFTWARE RELEASE

```

tprnpa                                5ESS Switch
(5465)                                OFFICE DATA ADMINISTRATION
                                       OSPS TERMINATING NPA-NXX RESTRICTIONS

*1. CARRIER                          _____
*2. NPA                               _____
(*) 3. NXX                            _____
(*) 4. LINE                           _____
5. DIOR TRMT                          ALLOW
6. AATOS TRMT                         ALLOW
7. AATLOS TRMT                        ALLOW
8. WIRELESS TRMT                      ALLOW

9. QUIET HEAR TRMT Y

```

Figure 3 SAMPLE TPRNPA FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 4BS: 5466 RECORD

OSPS SERVICE DATA FOR LISTING SERVICES CALLS - SERVDATA

1. GENERAL

The 5466 Record is available with 5E6 and later Software Releases. This record defines, for the 5ESS Switch owner, the EIS service parameters. A Service ID is assigned to each call queue to determine the treatment each call is to receive. The SVC ID is assigned to serving teams on the OSPSCT form (5404 Record). Division 2, Section 3C discusses the translations required for an EIS and an External ARU (Audio Response Unit).

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.54.

2. FORM AND RECORD ENTRIES - 5466 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * SVC ID

Description: The Service Identification number is assigned by the switch owner to identify the specific service parameters.

Valid Entries: 1 - 1023

Data Rules:

For 5E9(1) and later, if an entry is made on this form, then the LSTG SVC field on the OSPSOPT form must have an entry.

2.3 INITIAL ACTION

Description: This field is for call processing use at call origination to determine the initial treatment to be given to the call.

Required Field.

Default: TOOPR

Valid Entries:

Valid INITIAL ACTION Entries	
Entry	Definition
ASKEIS or A	Request action from EIS.
REORDER or R	Route to reorder.
TODEST or TOD	Route directly to service destination.
TOOPER or TOO	Route directly to operator.

Data Rules:

If "ASKEIS" is entered:

- PRE OPER EIS must be entered

- OSPS SVC CODE cannot be "IBMLS"
- SVC DEST must not be entered
- for 5E9(2) only, INT ANNC TYPE must not be entered unless OSPS SVC CODE is "SRVC7", then it must be entered.
- for 5E10 and later,
 - and OSPS SVC CODE is "INMATE", then INT ANNC TYPE must be 150.
 - and OSPS SVC CODE is "AAP"
 - and OSPS SVC CODE is "SRVC8" INT ANNC TYPE must be 317.
- for 5E11 and later,
 - and OSPS SVC CODE is "AAP", then INT ANNC TYPE must be 317.

When PRE OPER EIS is entered on the SERVDATA form, and when the associated INITIAL ACTION field is "ASKEIS", a corresponding EISSM form (5462-3 Record) must exist where PRE OPER is "Y" and NAME on the EISSM form matches PRE OPER EIS on the SERVDATA form.

If "REORDER" or "TOOPER" are entered, INT ANNC TYPE, PRE OPER EIS, and SVC DEST must not be entered.

If "TOOPER" is entered, OSPS SVC CODE cannot be:

- "AAP"
- "IBMINCPT"
- "INMATE"
- "SPCL700"
- "SRVC7" (5E9(2) - 5E10)

If "TODEST" is entered, SVC DEST must be entered.

2.4 PRE OPER EIS

Description: The pre-operator EIS name is used when the call is to establish an interface with an EIS to obtain initial routing instructions, i.e., before being routed to an operator position. This can be used to provide an EIS directed announcement based on call related data, such as, the time of day, the day of the week, etc. Enter the name that is defined on the EISDATA form (5462-1 Record).

Valid Entries: 1 - 15 characters

Data Rules:

PRE OPER EIS and SVC DEST fields are the keys to the SERVDEST form (5467 Record).

If PRE OPER EIS is entered, then a corresponding EISSM form (5462-3 Record) must exist where PRE OPER is "Y" and NAME on the EISSM form matches PRE OPER EIS on the SERVDATA form.

A second OPEISDB form (5462-2 Record) and a second OSPSCT form (5404 Record) are required for the

first OSPSCT form if LIST SVC RECALL on the first OSPSCT form is "Y" and PRE OPER EIS entry on the corresponding SERVDATA form is different than the EIS NAME on the first OPEISDB form.

- A corresponding SERVDATA form is found by matching the SVC ID field on the SERVDATA form with the SVC ID field on the first OSPSCT form.
- The first OPEISDB form is found by matching the SERVING TEAM and SVC ID fields on the OPEISDB form with the SERVING TEAM and SVC ID fields on the first OSPSCT form, respectively.
- The second OPEISDB form is found by matching the SVC ID and EIS NAME fields on the second OPEISDB form with the SVC ID and PRE OPER EIS fields on the SERVDATA form.

If PRE OPER EIS is entered and the corresponding EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) has

- "VDR" entered as the VENDOR,
then OSPS SVC CODE on the SERVDATA form must be "VDRLS" or "INCPT".
- "TMC" entered as the VENDOR,
then OSPS SVC CODE on the SERVDATA form must be "SRVC7".

2.5 SVC DEST

Description: Enter the Service Destination Number, which defines the type of destination, such as, an External ARU, an operator or an Internal ARU. The Service Destination ID is a flexible way of assigning the destination ID provided by the vendor.

The PRE OPER EIS and SVC DEST entries are the keys into the SERVDEST form (5467 Record), which provides the initial routing destination for the initial action of an EIS. The SVC DEST field is an identifier used to obtain the route type and route code when the INITIAL ACTION is "TODEST".

Valid Entries: 1 - 65535

Data Rules:

If SVC DEST is entered on the SERVDATA form (5466 Record), then a corresponding SERVDEST form (5467 Record) must exist where SVC DEST and EIS NAME on the SERVDEST form match SVC DEST and PRE OPER EIS on the SERVDATA form, respectively.

If SVC DEST and INT ANNC TYPE are both entered on a SERVDATA form, then RTE TYPE on the corresponding SERVDEST form must be "FIIA" or "RIIA". A corresponding SERVDEST form is where the SVC DEST and EIS NAME fields on the SERVDEST form match the SVC DEST and PRE OPER EIS fields on the SERVDATA form, respectively.

If SVC DEST is entered, but INT ANNC TYPE is NOT entered on the SERVDATA form, then RTE TYPE on the corresponding SERVDEST form must NOT be "FIIA" or "RIIA". A corresponding SERVDEST form is where the SVC DEST and EIS NAME fields on the SERVDEST form match the SVC DEST and PRE OPER EIS fields on the SERVDATA form, respectively.

2.6 INT ANNC TYPE

Description: Enter the Internal Announcement Type, which specifies the internal pre-announcement to be supplied by the 5ESS Switch DSU2-RAF. The internal RAF unit may play a specified pre-announcement if this source is selected as the initial SVC DEST. The entries are defined by the HEADER ID on the ANNHD form (5531 Record). The larger range of values for 5E9(2) and later supports SAS (Service Announcement System).

Valid Entries:

For 5E6 - 5E9(1): 1 - 255

For 5E9(2) and later: 1 - 131,071

Data Rules:

5E9(1) and earlier, INT ANNC TYPE must not be entered if INITIAL ACTION is "ASKEIS".

5E9(2) and later:

If INT ANNC TYPE is entered:

- then "SRVC7" must be entered in OSPA SVC CODE. If "SRVC7" is not entered, INT ANNC TYPE may not be entered.
- and INITIAL ACTION is "ASKEIS", then OSPA SVC CODE must "SRVC7". If OSPA SVC CODE is not "SRVC7", and INITIAL ACTION is "ASKEIS", then INT ANNC TYPE cannot be entered.
- and "SRVC7" is entered in OSPA SVC CODE, then an ANNAPL form must exist where APPLICATION is "OSPSTA"
- and "SRVC7" is not entered in OSPA SVC CODE, then a corresponding ANNHD form is required and the APPLICATION field on ANNHD form must be "OSPSDA".
- and "SRVC7" is entered in OSPA SVC CODE, then a corresponding ANNHD form is required where APPLICATION is "OSPSTA" and HEADER ID matches INT ANNC TYPE on the SERVDATA form.
- and OSPA SVC CODE is not "SRVC7" an ANNAPL form must exist where APPLICATION is "OSPSDA". If OSPA SVC CODE is "SRVC7", INT ANNC TYPE must be 150.

2.7 OSPA SVC CODE

Description: Enter the OSPA Service Code, which is the code of an OSPA supported service.

Required Field.

Default: LS

Valid Entries:

Valid OSPA SVC CODE Entries	
Entry	Definition
AAP	Software Release: 5E11 and later. (For 5E9(2) - 5E10 see "SRVC8".) AATLSOS AAP using CPDL Interface Services using NRP (Network Resource Platform) as the EIS vendor. This value supports the AATLSOS AAP CPDL (Alternate Access to Language Specific Operator Services Automated Access Prompting Call Processing Data Link) Interface feature. For more information on this feature, see Division 2, Section 4A412.
IBMINCPT or IBMI	Software Release: 5E6(2) and later.

	IBM Intercept Services
IBMLS or IBML	Software Release: 5E6(2) and later.
	IBM Listing Services
INCPT or IN	Software Release: 5E6(2) and later.
	CCI and general Intercept Services
INMATE	Software Release: 5E11 and later. Inmate Calling Services using TMC (Tele-Matic Corporation) as the EIS vendor. This value supports the Inmate Calling Service feature. For more information on this feature, see Division 2, Section 4A385. For 5E9(2) - 5E10 later, see "SRVC7".
LS or L	Software Release: 5E6 and later.
	CCI and general Listing Services
SPCL700 or SP	Software Release: 5E7 and later. Specialized Handling for 700 calls. For more information on Specialized Handling for 700 Services secured features, see Division 2, Section 4A69 and Section 4A89. For information on Specialized Handling for 700 Calls Test Calls, see Division 2, Section 4C17.
SRVC7	Software Release: 5E9(2) - 5E10. Inmate Calling Services using TMC (Tele-Matic Corporation) as the EIS vendor. This value supports the Inmate Calling Service feature. For more information on this feature, see Division 2, Section 4A385. For 5E11 and later, see "INMATE".
SRVC8	Software Release: 5E9(2) - 5E10. For 5E11 and later, see "AAP". AATLSOS AAP using CPDL Interface Services using NRP (Network Resource Platform) as the EIS vendor This value supports the AATLSOS AAP CPDL (Alternate Access to Language Specific Operator Services Automated Access Prompting Call Processing Data Link) Interface feature. For more information on this feature, see Division 2, Section 4A412.
VDRLS or V	Software Release: 5E9(1) and later.
	VDR (Volt Delta Resource) Listing Services

Data Rules:

"INCPT" or "IBMINCPT" must be entered, when CALL ORIGIN on a corresponding ACDCTP form is "AIS". The corresponding form is found when SVC ID of this form matches SVC ID of OSPSCT form and OSPS CALL TYPE of OSPSCT form matches CALL TYPE of ACDCTP form. Conversely, if CALL ORIGIN on the ACDCTP form is not "AIS", OSPS SVC CODE field cannot be "INCPT", "IBMINCPT" or "SPCL700".

If "IBMLS" or "IBMINCPT" is entered, a corresponding EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) must have "IBM" entered as the VENDOR.

AAP

If "AAP" is entered and INITIAL ACTION is "ASKEIS", then INT ANNC TYPE must be 317.

INMATE

If "INMATE" is entered,

- BILLING NUMBER must be entered.
- and INITIAL ACTION is "ASKEIS", then INT ANNC TYPE must be 150.

SPCL700

- "SPCL700" is used by the Specialized Handling of 700 Calls secured feature, therefore, SFID 69 on the SFSYS form (5713-1 Record) must be set to "S" or "Y".
- If "SPCL700" is entered, CALL COMPL must be "Y"
- "SPCL700" cannot be entered if SVC ID on this form matches a SVC ID entry on the OPEISDB form.
- If "CGI" is entered as the VENDOR on the corresponding EISDATA form, then OSPS SVC CODE must be "SPCL700". If "CGI" is not entered as the VENDOR on the corresponding EISDATA form, then OSPS SVC CODE cannot be "SPCL700". Corresponding forms are found by matching the value in the PRE OPER EIS field on this form with the EIS NAME field on the EISDATA form.

SRVC7

If "SRVC7" is entered:

BILLING NUMBER must be entered
INITIAL ACTION cannot be "TOOPER"
INT ANNC TYPE must be 150

If "SRVC7" is entered and PRE OPER EIS is entered, then the associated EISDATA form (found by matching PRE OPER EIS on the SERVDATA form with EIS NAME on the EISDATA form) must have "TMC" entered as the VENDOR.

If "SRVC7" is not entered, BILLING NUMBER must not be entered.

SRVC8

See "AAP".

2.8 EIS APPL CODE

Description: Enter the EIS Application Code, which is supplied by the EIS vendor and informs the vendor's application which service is required by this call.

Valid Entries: 1 - 1023

2.9 NBR RECALLS

Description: Enter the Number of Recalls, which is the default value used by OSPS as the number of recalls permitted for this service. The EIS vendor system may override this parameter. This field is used when a value is not provided by an EIS vendor or when a service is provided without EIS support.

Required Field.

Default: 0

Valid Entries: 1 - 255

2.10 RECALL DELAY

Description: The RECALL DELAY is the interval in 50 millisecond intervals the call is to be delayed after a particular service, such as the end of an announcement, before an operator is requested for the call. For example, "100" gives a 5-second delay between the end of the automated portion of the service and the beginning operator recall. An entry in this field is needed only when a value is not provided by an EIS or when a service is provided without EIS support. This is an optional field.

Default: 0

Valid Entries: 0 - 1023

2.11 CALL COMPL

Description: Is Call Completion allowed?

Software Release: 5E6(2) and later

Default: N

Valid Entries: Y, N

Data Rules:

If CALL COMPL is "N", DIGIT TIMING, CALL PROG RI, and TURN BACK RI cannot be entered.

2.12 DIGIT TIMING

Description: This field is not currently being used, because internal ARUs do not support Call Completion prompting at this time.

2.13 TURN BACK RI

Description: Enter the route index for the announcement to be played, when the call cannot be completed.

Software Release: 5E6(2) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

This field can only be entered if CALL COMPL is "Y".

A corresponding RTIDX form is required, where the ROUTE INDEX value on the RTIDX form must match the TURN BACK RI value on the SERVDATA form. In addition, this matching RTIDX form must have ROUTE TYPE set to "HUNT" and CI ROUTE TYPE set to "GENANN". A corresponding TKGRP form is also required. The TGN on the TKGRP form must match the TRUNK GROUP NUMBER on the corresponding RTIDX form. Additionally, on the TKGRP Form, the TRK DIR must be "ANN".

2.14 CALL PROG RI

Description: Enter the route index for the call in progress announcement.

Software Release: 5E6(2) and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If this field is entered, then CALL COMP must be "Y".

A corresponding RTIDX form is required, where the ROUTE INDEX value on the RTIDX form must match the CALL PROG RI value. In addition, this matching RTIDX form must have ROUTE TYPE set to "HUNT" and CI ROUTE TYPE set to "GENANN". A corresponding TKGRP form is also required. The TGN on the TKGRP form must match the TRUNK GROUP NUMBER on the corresponding RTIDX form. Additionally, on the TKGRP Form, the TRK DIR must be "ANN".

2.15 BILLING NUMBER

Description: Enter the 10-digit number (NPANXXXXXX) that will be billed for a pre-paid ICS call. This field supports the OSPS Inmate Calling Service secured feature (SFID 385). For more information on this feature, see Division 2, Section 4A385.

Software Release: 5E9(2) and later.

Valid Entries: 10-digit number

Data Rules:

BILLING NUMBER must be entered if OSPS SVC CODE is "SRVC7". It must not be entered if OSPS SVC CODE is not "SRVC7".

		5ESS Switch		—	
servdata		OFFICE DATA ADMINISTRATION			
(5466)		OSPS SERVICE DATA FOR LISTING SERVICES CALLS			
* 1. SVC ID _____					
2. INITIAL ACTION		TOOPER	13. CALL PROG RI		_____
3. PRE OPER EIS		_____	14. BILLING NUMBER		_____
4. SVC DEST		_____			
5. INT ANNC TYPE		_____			
6. OSPS SVC CODE		LS			
7. EIS APPL CODE		_____			
8. NBR RECALLS		0			
9. RECALL DELAY		_____			
10. CALL COMPL		N			
11. DIGIT TIMING		_____			
12. TURN BACK RI		_____			

Figure 1 SAMPLE SERVDATA FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 4BT: 5467 RECORD OSPS DESTINATION DATA FOR LISTING SERVICES CALLS - SERVDEST

1. GENERAL

The 5467 Record is available with 5E6 and later Software Releases.

The 5467 Record is used to translate an EIS (External Information Service) vendor's service destination to a 5ESS Switch routing type and associated routing code, such as a route index. Note that if the EIS NAME is null, this Record can still be accessed for routing information for services that do not initially have an EIS assigned to the call.

The route type can specify route to an internal announcement, route to an external announcement or route to an operator.

1.1 Listing Services Translations

Division 2, Section 3C discusses the translations required for Listing Services, and the form flow figures for the cross checks for RTE TYPEs of "RIXA", "RIIA" and "FIIA".

1.2 Recent Change View

The corresponding Recent Change View for this form is 21.53.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and the Office Name on each record.

2.2 * SVC DEST

Description: Enter the EIS (External Information System) service destination identification number. This number is supplied by the vendor.

Valid Entries: 1 - 65535

Data Rules:

When SVC DEST is entered on the SERVDATA form (5466 Record), a corresponding SERVDEST form (5467 Record) must exist where SVC DEST and EIS NAME on the SERVDEST form match SERV DEST and PRE OPER EIS on the SERVDATA form respectively.

2.3 (*) EIS NAME

Description: External Information System Name. This field allows the same destination IDs to be used by EISs from different vendors. This is an optional key field. Leave blank or enter a name that is 1-15 characters and is defined on the EISDATA form (5462-1 Record).

Valid Entries: 1 - 15 characters

Data Rules:

A corresponding EISDATA form must exist where EIS NAME matches EIS NAME on the SERVDEST form (5467 Record).

2.4 # RTE TYPE

Description: The Route Type is used to indicate the 5ESS Switch route type.

Required Field.

Valid RTE TYPE Entries	
Entry	Definition
CC	Software Release: 5E7 and later. Complete call
FIIA	Route to an internal announcement that has a fixed route index
OPER	Route to an operator
R13A	Software Release: 5E7 and later. Route to 13A recorded announcement unit
REORDER	Software Release: 5E7 and later. Route to reorder
RICCXA	Software Release: 5E7 and later. Route to external announcement with CC checks that has a route index.
RIIA	Route to an internal announcement that has a route index
RIXA	Route to an external announcement that has a route index
TERM	Software Release: 5E7 and later. Terminate the call

Data Rules:

Figures 1, 2 and 3 show the form flow for cross reference forms for RTE TYPEs.

RTE CODE must not be entered for the following RTE TYPEs:

- "CC",
- "FIIA",
- "OPER",
- "REORDER", or
- "TERM"

RTE CODE must be entered for the following RTE TYPEs:

- "RICCXA",
- "RIIA",
- "RIXA", or
- "R13A".

FIIA - For every SERVDEST form with "FIIA" entered for RTE TYPE, there must exist a FIXRT form (5301 Record) with "OSPSEIS" entered for FIXED ROUTE TYPE. In addition, the RTIDX (5303 Record) and TKGRP (5202-1/2 Record) forms are also required when a fixed route is defined.

RIIA, RIXA, RICCXA, R13A - If "RIIA", "RIXA", "RICCA" or "R13A" is entered for RTE TYPE, then an RTIDX form is required where ROUTE INDEX on the RTIDX form matches RTE CODE on the SERVDEST form (5467 Record) and ROUTE TYPE on the RTIDX form is "HUNT".

In addition, for 5E7 and later, if the RTE TYPE is "RIIA" or "R13A", CI ROUTE TYPE on the corresponding RTIDX form must be "GENANN".

RIIA - A second RTIDX form may be required for each SERVDEST form with a RTE TYPE of "RIIA" or "RIXA" to handle overflow conditions. The ROUTE INDEX on the second RTIDX form must match the NEXT ROUTE

on the first RTIDX form. The ROUTE INDEX on the first RTIDX form must match the RTE CODE on the SERVDEST form. Also, the ROUTE TYPE on the second RTIDX form must be "HUNT" or "REORDER".

If "RIIA" is entered:

- SVC GRP must be "DA" on the corresponding TKGRP form.
- TRKCLS must be "RAFANNC" on TKGRP form.

A TKGRP form is associated with a SERVDEST form through a RTIDX form as follows: the ROUTE INDEX on the RTIDX form matches RTE CODE on the SERVDEST form and TGN on the TKGRP form matches TGN on the RTIDX form.

- and the RTE TYPE on the second RTIDX is "HUNT", then a corresponding TKGRP form is required where TGN on the TKGRP form matches TRUNK GROUP NUMBER on the second RTIDX form and TRK DIR on the TRKGRP form is "RAF".

RIXA - If the RTE TYPE on the SERVDEST form is "RIXA" and RTE TYPE on the second RTIDX is "HUNT", then a corresponding TKGRP form is required where TGN on the TRKGRP form matches TRUNK GROUP NUMBER on the second RTIDX form and TRKCLS on the TRKGRP form is "EISTRK".

If SVC DEST and EIS NAME on the SERVDEST form match SVC DEST and PRE OPER EIS on the SERVDATA form respectively, and SVC DEST and INT ANNC TYPE are both entered on a SERVDATA form, then the RTE TYPE on the corresponding SERVDEST form must be "FIIA" or "RIIA". Conversely, if SVC DEST is entered and INT ANNC TYPE is NOT entered on a SERVDATA form, the RTE TYPE on the corresponding SERVDEST form must NOT be "FIIA" or "RIIA".

2.5 RTE CODE

Description: The Routing Code is used to designate the route index.

Valid Entries:

- For 5E10 and earlier: 1 - 3617
- For 5E11 and 5E12: 1 - 4095
- For 5E13 and later: Blank, or 1 - 16382

Data Rules:

RTE CODE must not be entered if RTE TYPE is "OPER" or "FIIA". An entry is required if the RTE TYPE is "RIIA" or "RIXA".

```
servdest                                5ESS Switch      _
                                     OFFICE DATA ADMINISTRATION
(5467)                                OSPS DESTINATION DATA FOR LISTING SERVICE CALLS

*1. SVC DEST _____
(*) 2. EIS NAME _____
#3. RTE TYPE _____
   4. RTE CODE _____
```

Figure 1 SAMPLE SERVDEST FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BV: 5469 RECORD OSPS INTERCEPT DESTINATION INDICES - AISCLS

1. GENERAL

The 5469 Record is available with 5E6(2) and later Software Releases. This form defines the intercept class, which determines the destination index (to be used for call type determination) on the basis of the intercept class and the called number information. Each class has two destination indexes, one is used if ANI (Automatic Number Identification) is available, the other is used if ANI is not available. All intercept calls receive treatment based on the data entered on this form and the data entered on the ACDCTP form. If this form does not contain data for the call, or if the destination index is blank, then the intercept data on the ACDCTP form is used.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.57.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INCPT CLASS

Description: Enter the intercept class. In the following entries, only the first few letters which make the entry unique need to be entered. The abbreviated entries are within brackets in the following list.

Valid INCPT CLASS Entries	
Entry	Definition
[ANIB]LNK	
[ANIF]AIL	ANI Equipment Failure to Identify Line Number
[ANIR]EG	ANI Regular
[ANIT]RBL	ANI Special (Trouble) Number
[C]ONC	Concentrator Spinoff
[ONIR]EG	ONI (Operator Number Identification) Regular
[ONIB]LNK	ONI Blank or Unassigned Number
[ONIT]RBL	ONI Special (Trouble) Number

Data Rules:

An entry in this field requires an entry either in the WITH ANI field or in the WITHOUT ANI field.

If "ANIFAIL", "CONC", "ONIREG", "ONIBLNK", or "ONITRBL" are entered, the WITH ANI field must be left blank, but the WITHOUT ANI field must have an entry.

DESTINATION INDEX

The following fields (Section 2.3 - Section 2.4) assign the destination index for expanded call type determination.

2.3 WITH ANI

Description: Enter the destination index for expanded call type determination that is used if ANI is available.
Valid Entries: 1 - 4095

Data Rules:

If the destination index is blank, then the call will receive treatment according to the call origination data on the ACDCTP form (5412 Record) when SECOND LEVEL is "DEST", or on call origination data and incoming trunk group when SECOND LEVEL is "TGRP". This cannot be blank if WITHOUT ANI is blank.

If the DESTINATION INDEX WITH ANI field is entered, an ACDPOL form (5412 - B/C/E/F Record) must exist where TGRP/DEST is "DEST" and TGN/CDI field matches the DESTINATION INDEX WITH ANI on the AISCLS form.

The WITH ANI entry may be an INC CDI (Code Index) on the INFLDEST form (5448 Record).

2.4 WITHOUT ANI

Description: Enter the destination index for expanded call type determination that is used if ANI is not available. If the destination index is blank, then the call will receive treatment according to the expanded call type determination data populated for intercept.

Valid Entries: 1 - 4095

Data Rules:

If the destination index is blank, then the call will receive treatment according to the call origination data on the ACDCTP form (5412 Record) when SECOND LEVEL is "DEST", or on call origination data and incoming trunk group when SECOND LEVEL is "TGRP".

If the DESTINATION INDEX WITHOUT ANI field is entered, an ACDPOL form (5412 - B/C/E/F Record) must exist where TGRP/DEST is "DEST" and TGN/CDI field matches the DESTINATION INDEX WITHOUT ANI on the AISCLS form.

The WITHOUT ANI entry may be an INC CDI (Code Index) on the INFLDEST form.

```

                                5ESS Switch      —
aiscls      OFFICE DATA ADMINISTRATION
(5469)      OSPS INTERCEPT DESTINATION INDICES

*1. INCPT CLASS  CONC

      DESTINATION INDEX
      _____
      2. WITH ANI      _____
      3. WITHOUT ANI  1234

```

Figure 1 SAMPLE AISCLS FORM 5E6(2) AND LATER SOFTWARE RELEASES

```

                                5ESS Switch      —
aiscls      OFFICE DATA ADMINISTRATION
(5469)      OSPS INTERCEPT DESTINATION INDICES

*1. INCPT CLASS  CONC

```

DESTINATION INDEX

2. WITH ANI	_____
3. WITHOUT ANI	1234

Figure 2

SEC. 4BW: 5471-1/2 RECORD OSPS PORT RANGES FOR IBM DA SYSTEM - IBMRNGS

1. GENERAL

This form is available with 5E6(2) and later Software Releases and is used to define the parameters for the IBM interface. Only one form is entered for each 5ESS Switch. It allows the OSPS owner to obtain an IBM position ID for each of the ARU (Audio Response Unit) trunk group members (ports) associated with the IBM DAS (Directory Assistance System). The MIN POSITION, MAX POSITION, and TGN LIST fields allow the OSPS owner to obtain an IBM Position ID for each of the OSPS operator positions associated with the IBM DAS working in conjunction with an OSPS.

1.1 Position ID Range

The MIN POSITION and MAX POSITION assign the range of sequential positions, from the minimum position to the maximum number of positions, that may interface with the IBM DAS. For example, when OSPS position numbers in the range of 500 to 1499 are planned to interface with an IBM DAS, MIN POSITION is set to 500 and MAX POSITION is set to 1000. Not all the positions within this range are required to interface with the IBM DAS. Only OSPS operator position IDs where "VDT" is entered in the POS TYPE field on the OSPSOP form (5401 Record) are converted to IBM Position ID. However, all current and future positions which provide services via the IBM DAS must fall within these bounds. If the MIN POSITION entry or MAX POSITION entry is changed later, all IBM Position IDs associated with ARU ports will need to be reassigned in the IBM DAS; therefore, growth for operator position should be considered when assigning these values.

1.2 IBM Position ID

The IBM Position ID equals the POS NUM entry on the OSPSOP form. If the OSPS owner wishes to start the sequence at OSPS position number 1, the POS NUM can be set to zero to make the OSPS position number and IBM Position ID equal; this only wastes the first IBM Position ID (ID = 0), as OSPS has no position number zero. Alternately, this parameter can be set to one, which makes the IBM Position ID one less than the corresponding OSPS position number.

1.3 ARU Trunks

The sum of the MAX POSITION entry, plus the trunk groups may not exceed 9000. (See TOTAL PORTS field for how this is calculated.) This is an IBM system limit. The 9000 range must be potentially shared with other switching systems that use a given IBM DAS.

- **WARNING:** When the sum of all ranges exceeds 4500, indicating that over half the available array in the IBM DAS has been allocated for this office alone, a reassessment may be required if other offices share an IBM DAS.

1.4 5471-2 Output Record

The 5471-2 Record is an output record which shows the operator position and trunk group member associated with an IBM position ID.

1.5 Recent Change View

The corresponding Recent Change View for this form is 21.58.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * KEY

Description: This is the key into this form. It will always be 1.

Default: 1

Valid Entries: 1

Data Rules:

The IBMRNGS form must be submitted when SERVICE CLASS on the OSPSDSL form is "EIS" and VENDOR on the EISDATA form is "IBM" (EIS NBR on the EISDATA form matches DATA LINK GRP on the OSPSDSL form).

2.3 # MIN POSITION

Description: Enter the lowest operator position number. MIN POSITION assigns the the lowest (minimum) operator position number served by the IBM DAS.

Required Field.

Valid Entries: 0 - 4095

Data Rules:

The MIN POSITION entry plus MAX POSITION entry must be less than 4097.

2.4 # MAX POSITION

Description: Enter the maximum number of operator positions that can serve an IBM DAS. The MAX POSITION is the highest number of operator position numbers set aside to serve the IBM DAS. MIN POSITION plus MAX POSITION assigns the range of sequential positions that may interface with the IBM DAS.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

MAX POSITION cannot be less than MIN POSITION.

Leave the MAX POSITION entry blank if no data is to be entered for this field; 0 is not allowed. If MAX POSITION is blank (no value entered by the customer), then MIN POSITION must be 0.

TGN LIST

The following fields (Section 2.5 - Section 2.9) define options for the ARU trunk groups that interface with an IBM DAS.

These fields assign the range for ARU trunk groups and indicate the maximum member range (MAX MEMB) for each of up to eight ARU trunk groups which may interface with a Directory Assistance System(s).

Each of the 8 rows for the ARU trunk groups apply to both internal OSPS DSU2-RAF trunk groups as well as external ARU trunk groups which connect to IBM DAS ARU's. The remainder from the division of the trunk group number divided by eight is referred to as the "IBM trunk group index." Each ARU trunk group associated with a particular IBM DAS must have a unique IBM trunk group index. The MAX MEMB specifies the range of the largest trunk group with a TGN (Trunk Group Number) that is a multiple of eight (IBM Trunk Group Index of zero) and interfaces with an IBM DAS. The DAS1(2,3,4) TGN field applies to any IBM DAS-associated trunk group with an IBM trunk group index of 1, etc.

Assume an office requires two DAS Systems, DAS1 and DAS2; a trunk group to DAS1 (TGN 256) needs 200 members and a trunk group to DAS2 (TGN 504) requires 350 members. The MAX MEMB is set to 350. The ranges specified must include room for growth. If any range is later modified, it will affect all the Position IDs of ARU members in groups with a larger IBM trunk group index, and will require reassignment in the IBM DAS.

If MAX POSITION is not 0, then the sum of RANGES in the TGN LIST must be greater than 0, i.e. one of the fields must have an entry.

If MAX POSITION is blank, then MAX MEM row 1 must be blank. The sum of all the ranges for positions and trunk groups may not exceed 9000. This is an IBM system limit. Note that the 9000 range must be potentially shared with other switching systems that use a given IBM DAS. Therefore, ODA gives a warning when the sum of all ranges exceeds 4500, indicating that over half the available array in the IBM DAS has been allocated for this office alone, and reassessment may be required if other offices share an IBM DAS.

The TOTAL (number of) PORTS equals the sum of the operator positions (MAX POSITION entry minus the MIN POSITION entry) plus 1, plus the sum of the entries for MAX POSITION plus the sum of the number of MAX POSITION entries must be less than 9001. For example, if MIN POSITION is 100, MAX POSITION is 200 and MAX MEMB has entries 300 and 400, then TOTAL PORTS = (200 - 100) + 1 + (300 + 400) + 2 (number of entries for MAX MEMB), which equals 803. It SHOULD be less than 4501, otherwise an ODA warning is given.

2.5 MAX MEMB

Description: Enter the maximum member range for ARU trunk groups interfaced with an IBM DAS. At least one MAX MEMB must be entered.

Valid Entries: 1 - 4095

Data Rules:

If MAX MEM is entered, at least one DAS TGN must also be entered.

2.6 DAS1 TGN

Description: Enter the TGN (trunk group number) connected to IBM DAS system 1.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The first row entry for IBM DAS1 must be divisible by 8, (i.e., must have a remainder of 0). The second row entry must have a remainder of 1 when divided by 8. The third row entry must have a remainder of 2 when divided by 8, the forth row a remainder of 3, the fifth row a remainder of 4, the sixth row a remainder of 5, the

seventh row a remainder of 6, and the eighth row must have a remainder of 7 when divided by 8.

Each DAS1 (DAS2, DAS3, DAS4) TGN, entered on the IBMRNGS form, must have a matching TGN on a TKGRP form. The TRKCLS on the corresponding TKGRP form must be either "EISTRK" or "RAFANNC". If TRKCLS is set to "RAFANNC" the SVC GRP on the TKGRP form must be set to "DA". If TRKCLS is set to "EISTRK", no other DAS TGN values entered on the same row on the IBMRNGS form can have the same TGN. For example, DAS2, DAS3, or DAS4 cannot have the same TGN value as DAS1.

2.7 DAS2 TGN

Description: Enter the TGN (trunk group number) connected to IBM DAS system 2.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The first row entry for IBM DAS2 must be divisible by 8, (i.e., must have a remainder of 0). The second row entry must have a remainder of 1 when divided by 8. The third row entry must have a remainder of 2 when divided by 8, the fourth row a remainder of 3, the fifth row a remainder of 4, the sixth row a remainder of 5, the seventh row a remainder of 6, and the eighth row must have a remainder of 7 when divided by 8.

Each DAS1 (DAS2, DAS3, DAS4) TGN, entered on the IBMRNGS form, must have a matching TGN on a TKGRP form. The TRKCLS on the corresponding TKGRP form must be either "EISTRK" or "RAFANNC". If TRKCLS is set to "RAFANNC" the SVC GRP on the TKGRP form must be set to "DA". If TRKCLS is set to "EISTRK", no other DAS TGN values entered on the same row on the IBMRNGS form can have the same TGN. For example, DAS2, DAS3, or DAS4 cannot have the same TGN value as DAS1.

2.8 DAS3 TGN

Description: Enter the TGN (trunk group number) connected to IBM DAS system 3.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The first row entry for IBM DAS3 must be divisible by 8, (i.e., must have a remainder of 0). The second row entry must have a remainder of 1 when divided by 8. The third row entry must have a remainder of 2 when divided by 8, the fourth row a remainder of 3, the fifth row a remainder of 4, the sixth row a remainder of 5, the seventh row a remainder of 6, and the eighth row must have a remainder of 7 when divided by 8.

Each DAS1 (DAS2, DAS3, DAS4) TGN, entered on the IBMRNGS form, must have a matching TGN on a TKGRP form. The TRKCLS on the corresponding TKGRP form must be either "EISTRK" or "RAFANNC". If TRKCLS is set to "RAFANNC" the SVC GRP on the TKGRP form must be set to "DA". If TRKCLS is set to "EISTRK", no other DAS TGN values entered on the same row on the IBMRNGS form can have the same TGN. For example, DAS2, DAS3, or DAS4 cannot have the same TGN value as DAS1.

2.9 DAS4 TGN

Description: Enter the TGN (trunk group number) connected to IBM DAS system 4.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

The first row entry for IBM DAS4 must be divisible by 8, (i.e., must have a remainder of 0). The second row entry must have a remainder of 1 when divided by 8. The third row entry must have a remainder of 2 when divided by 8, the fourth row a remainder of 3, the fifth row a remainder of 4, the sixth row a remainder of 5, the seventh row a remainder of 6, and the eighth row must have a remainder of 7 when divided by 8.

Each DAS1 (DAS2, DAS3, DAS4) TGN, entered on the IBMRNGS form, must have a matching TGN on a TKGRP form. The TRKCLS on the corresponding TKGRP form must be either "EISTRK" or "RAFANNC". If TRKCLS is set to "RAFANNC" the SVC GRP on the TKGRP form must be set to "DA". If TRKCLS is set to "EISTRK", no other DAS TGN values entered on the same row on the IBMRNGS form can have the same TGN. For example, DAS2, DAS3, or DAS4 cannot have the same TGN value as DAS1.

2.10 TOTAL PORTS

Description: This field cannot be entered. The total number of ports is calculated and entered when the form is validated. The TOTAL (number of) PORTS equals the sum of the operator positions (MAX POSITION entry minus the MIN POSITION entry) plus 1, plus the sum of the entries for MAX POSITION, plus the sum of the number of MAX POSITION entries must be less than 9001.

```

SCREEN 1 OF 1                                5ESS Switch      —
ibmrngs                                     OFFICE DATA ADMINISTRATION
(5471-1/2)                                OSPS PORT RANGES FOR IBM DA SYSTEM

```

```

*1. KEY 1          #2. MIN POSITION 1          #3. MAX POSITION 500

```

```

                                4. TGN LIST
row  MAX MEMB  DAS1 TGN  DAS2 TGN  DAS3 TGN  DAS4 TGN
1    0235      0024      0032      0040      0048
2    0240      0009      0017      0025      0033
3    _____
4    _____
5    _____
6    _____
7    _____
8    _____
                                TOTAL PORTS 975

```

Figure 1 SAMPLE IBMRNGS FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4BX: 5472 RECORD VOICE MESSAGING SERVICE INTERFACE - ESPINFO

1. GENERAL

This record is available with 5E7 and later Software Releases. This form defines information about the ESP (Enhanced Service Provider) for VMS (Voice Messaging Service). The ESP is external to the 5ESS Switch. For more information on VMS features, see Division 2, Section 3I.

1.1 CCS7 Signaling Call Processing Data Needs

For 5E8 and later, CCS7 signaling can be used to transfer data to a particular ESC (Enhanced Services Complex). If the VMS Signaling Parameter specifies CCS7 signaling, then, as applicable, the OSPS encodes the Calling Number, Billing Number, Called Number, CCC Authorization Code, and Subaccount Billing Number into the parameters of an IAM message. The CCS7 SIGNALING field specifies whether or not CCS7 signaling is being used. The CC DIGIT TYPE attribute is used to indicate that the Billing Number sent in a Generic Digits Parameter is a card number.

The PIN DIGIT TYPE, CAC DIGIT TYPE, SAB DIGIT TYPE, and the THIRD NBR TYPE fields allow the TCA to initialize or modify the Type of Digits value of the Generic Digits Parameter used to send the PIN information, CCC Authorization Code, SAB Number information, and the Third Number Billing information to any specific ESC.

The default values for these fields are the expected values to be used by the AT&T ESC.

1.2 Recent Change View

The corresponding Recent Change View for this form is 27.65.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *ACCESS CODE

Description: Enter the ESP Access Code. Enter a 1, 2, or 3 digit number.

Valid Entries: 0 - 9, 00 - 99, 000 - 999

2.3 #ACCESS TN

Description: Enter the ESP access ten-digit telephone number (NPANXXXXXX). For 5E7 - 5E8, the NPA format is 200 - 919, where the middle digit can be only 0 - 1. For 5E9(1) and later, NPA is 200 - 999.

Required Field.

Valid Entries: 10 digits

2.4 SEND CARD NBR

Description: Should the Calling Card Number be sent to ESP?

Required Field.
Default: N
Valid Entries: Y, N

2.5 SEND SAB NBR

Description: Should the Subaccount Billing Number be sent to ESP?

Required Field.
Default: N
Valid Entries: Y, N

2.6 BACK THIRD XFER

Description: Should the Bill be transferred to a Back Third Number?

Required Field.
Default: N
Valid Entries: Y, N

2.7 CCS7 SIGNALING

Description: Is CCS7 signaling used for the transfer of information to the ESPs?

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

2.8 CC DIGIT TYPE

Description: Enter the type of digits for credit card billing number. This field is the decimal form of the binary value to be placed into an IAM (Initial Address Message). It represents the billing number credit card type of digits used in the IAM. The value must be a number recognized by the receiving switch network.

Software Release: 5E8 and later
Required Field.
Default: 27
Valid Entries: 0 - 31

Data Rules:

CC DIGIT TYPE, PIN DIGIT TYPE, CAC DIGIT TYPE and SAB DIGIT TYPE must be unique.

2.9 PIN DIGIT TYPE

Description: Enter the billing number PIN type of digits used in an IAM (Initial Address Message). This field is used to indicate that the message being sent contains a credit card PIN (personal identification number). This value must be a number recognized by the receiving switches in the network.

Software Release: 5E8 and later
Required Field.
Default: 21

Valid Entries: 0 - 31

Data Rules:

CC DIGIT TYPE, PIN DIGIT TYPE, CAC DIGIT TYPE and SAB DIGIT TYPE must be unique.

2.10 CAC DIGIT TYPE

Description: Enter the CCC (Commercial Credit Card) Authorization Code type of digits used in the Initial Address Message. This field is used to indicate that the message being sent contains a credit card authorization code. This value must be a number recognized by the receiving switches in the network.

Software Release: 5E8 and later

Default: 29

Valid Entries: 0 - 31

Data Rules:

CC DIGIT TYPE, PIN DIGIT TYPE, CAC DIGIT TYPE and SAB DIGIT TYPE must be unique.

2.11 SAB DIGIT TYPE

Description: Enter the SAB (Subaccount Billing) number type of digits used in an IAM. This field is used to indicate that the message being sent contains a subaccount billing number. This value must be a number recognized by the receiving switches in the network.

Software Release: 5E8 and later

Default: 28

Valid Entries: 0 - 31

Data Rules:

CC DIGIT TYPE, PIN DIGIT TYPE, CAC DIGIT TYPE and SAB DIGIT TYPE must be unique.

2.12 THIRD NBR TYPE

Description: Enter the third number type used in an IAM. This field is used to indicate that the message being sent contains a third number billing number. This value must be a number recognized by the receiving switches in the network.

Software Release: 5E8 and later

Default: 128

Valid Entries: 0 - 255

2.13 VMS DOM BLG

Description: Is the VMS (Voice Messaging Service) Access Dialing feature used for billing purposes when forwarded numbers are domestic? For more information, see Div. 2, Sec. 4A418.

Software Release: 5E10 and later

Default: N

Valid Entries: Y, N

2.14 VMS INTL BLG

Description: Is the Voice Messaging Service (VMS) Access Dialing feature used for billing purposes when forwarded numbers are international? For more information, see Div. 2, Sec. 4A418.

Software Release: 5E10 and later

Default: N

Valid Entries: Y, N

```

espinfo                                5ESS Switch      —
(5472)                                OFFICE DATA ADMINISTRATION
                                      VOICE MESSAGING SERVICE INTERFACE
*1. ACCESS CODE      _____    13. VMS INTL BLG N
#2. ACCESS TN        _____
3. SEND CARD NBR     N
4. SEND SAB NBR      N
5. BACK THIRD XFER   N
6. CCS7 SIGNALING    N
7. CC DIGIT TYPE     27
8. PIN DIGIT TYPE    21
9. CAC DIGIT TYPE    29
10. SAB DIGIT TYPE   28
11. THIRD NBR TYPE   128
12. VMS DOM BLG      N

```

Figure 1 SAMPLE ESPINFO FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4BY: 5473 RECORD OSPS TELEPHONE CREDIT CARD (TCR) ATTRIBUTES - TCCATTR

1. GENERAL

The 5473 record is available with 5E7 and later Software Releases. This form defines the attributes for a card type. It is used to group a set of card attributes together so that particular group of attributes can be associated with a particular card or cards that are identified via the Card Identification Tables.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.56.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CARD ATTR ID

Description: Enter the card attribute identification number. The attributes entered on this form are assigned to this ID.

Valid Entries: 0 - 63

Data Rules:

Every CARD ATTR ID entered on the TCCID form must have a matching CARD ATTR ID on the TCCATTR form.

CARD ATTRIBUTES

This heading is found only on the 5E7 form. The following fields (Section 2.3 - Section 2.8) define the card attributes for this card attribute ID.

2.3 # CARD TYPE

Description: Enter the TCR calling card type. For 5E5 and 5E6 this field was on the TCCID form, (5454 Record).

Required Field.

Valid CARD TYPE Entries	
Entry	Definition
CAS	AT&T Customer Account Services card only
CCC	Commercial Credit Card
TEL	Non-AT&T Telecommunications card

Data Rules:

The following table gives the CARD TYPE enumerations that must be entered for the SIGNALING TYPE.

SIGNALING TYPE	CARD TYPE
MAN	TEL or CCC
CCS7	CAS

ICCV	TEL

CARD TYPE on TCCATTR form must be "CCC" when ACCT NBR on the TCCID form is 0. (CARD ATTR ID on TCCATTR form matches the CARD ATTR ID on the TCCID form.)

2.4 # SIGNALING TYPE

Description: Enter the query signaling type used to validate a calling card.

Required Field.

Valid SIGNALING TYPE Entries	
Entry	Definition
CCS7 or 7	CAS Common Channel Signaling 7
ERV	External Routing Verification
ICCV or I	International Credit Card Validation
MAN or M	Manual
AT1 or A	ANSI type 1 signaling
LIDB or L	Software Release: 5E8 and earlier. LIDB signaling

Data Rules:

When SIGNALING TYPE is "CCS7", "ICCV", or "AT1" ,

- QUERY TIMEOUT must be entered.
- The PIN field on the associated TCCID form must be 4. (The CARD ATTR ID on the associated TCCID form matches the CARD ATTR ID on this form.)

When SIGNALING TYPE is "ICCV":

- CARD TYPE must be "TEL".
- QUERY TIMEOUT must be entered.
- For 5E9(1) and later, if the CARD ATTR ID value on this form matches the CARD ATTR ID value on the TCCID form, then:
 - the COUNTRY field on the TCCID form must be entered and the value entered must match either an ACCESS CODE on an IDDD form (5307 Record) or a HOME COUNTRY value on a NONUSA form (5477-1 Record).
 - the value in the DB LABEL field on the TCCID form must match the DB LABEL value on the ICCVDB form (5478 Record).

When SIGNALING TYPE is "CCS7", QUERY TIMEOUT must be entered.

When SIGNALING TYPE is "MAN":

- CARD TYPE must be "TEL" or "CCC".
- QUERY TIMEOUT must not be entered.

▲ **WARNING:** For 5E14 and later, when SIGNALING TYPE is "MAN":

- TIME AND CHARGES will automatically be set to blank.
- PREPEND 891 will automatically be set to blank.
- INDETERMINATE will automatically be set to blank.

For 5E14 and later, when SIGNALING TYPE is "ERV", the VER ROUTING NBR field on the FTPARM form cannot be blank.

For 5E15 and later, when SIGNALING TYPE is "ERV", the VER ROUTING NBR field on the FTPARM form (6424 Record) or the TCCATTR form (5473 Record) cannot be blank.

2.5 TIME AND CHARGES

Description: Are time and charge requests allowed for this call?

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

When SIGNALING TYPE is "MAN", TIME AND CHARGES must be "N".

2.6 INDETERMINATE

Description: Is the call allowed when the query response is not definite?

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

INDETERMINATE must be "N" if SIGNALING TYPE is "MAN".

2.7 PREPEND 891

Description: Should 891 be prepended to this card number?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

PREPEND 891 must be "N"

- if SIGNALING TYPE is "MAN".
- if the sum of the number of digits entered in the ISSUER ID DIGITS field on the TCCID form, added to the

values of ACCT NBR, CHECK NBR, and PIN equal 14.

2.8 QUERY TIMEOUT

Description: Enter the length of time in tenths of a second allowed to wait for a query reply.

Valid Entries: 10 - 160 (tenths of a second)

Data Rules:

QUERY TIMEOUT must be entered if SIGNALING TYPE is "AT1", "ICCV", or "CCS7". If QUERY TIMEOUT is not entered for these SIGNALING TYPEs, it defaults to 20.

QUERY TIMEOUT must not be entered if SIGNALING TYPE is "MAN".

2.9 ALLOW 900 CALLS

Description: Are OSPS 900 services allowed for this CARD ATTR ID?

Software Release: 5E8 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.10 VER ROUTING NBR

Description: This field specifies a 10-digit external routing number to be used by the OSPS (Operator Services Position System) when a caller has selected a commercial credit card as the method of call billing.

Software Release: 5E15 and later

Valid Entries: 10-digit number (8XXXXXXXXX where X = 0 - 9)

The first digit for this field must be 8.

tccattr	5ESS Switch	—
(5473)	OFFICE DATA ADMINISTRATION	
	OSPS TELEPHONE CREDIT CARD (TCR) ATTRIBUTES	

*1. CARD ATTR ID	02
#2. CARD TYPE	CAS
#3. SIGNALING TYPE	CCS7
4. TIME AND CHARGES	Y
5. INDETERMINATE	Y
6. PREPEND 891	N
7. QUERY TIMEOUT	020
8. ALLOW 900 CALLS	Y

Figure 1 SAMPLE TCCATTR FORM 5E8 - 5E14 SOFTWARE RELEASES

tccattr	5ESS Switch	—

OFFICE DATA ADMINISTRATION
(5473) OSPS TELEPHONE CREDIT CARD (TCR) ATTRIBUTES

*1. CARD ATTR ID ____
#2. CARD TYPE ____
#3. SIGNALING TYPE ____
4. TIME AND CHARGES _
5. INDETERMINATE _
6. PREPEND 891 _
7. QUERY TIMEOUT ____
8. ALLOW 900 CALLS Y
9. VER ROUTING NBR _____

Figure 2 SAMPLE TCCATTR FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4BZ: 5474 RECORD OSPS SERVICE DESIGNATION FOR 1+800 AATOS/SDN NRA OR AATLSOS CALLS - SRVDESIG

1. GENERAL

The 5474 Record is available with 5E7 and later Software Releases. The AATOS (Alternate Access To Operator Services) and SDN/NRA (Software Defined Network/Network Remote Access) and AATLSOS (Alternate Access to Language Specific Operators) features handle 1+8XX dialed calls which arrive at an OSPS via a dedicated trunk with an SSC-WXY number signaled in the forward number field. This form is used to determine the expected Service type for 1 + 8XX calls arriving on AATOS and SDN/NRA MF trunks.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.70

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 (*) SSC WXY

Description: Enter the SSC-WXY number as signaled in the forward number field of a 1+8XX dialed AATOS or SDN/NRA call. SSC-WXY can be any combination of digits 0 through 9.

Valid Entries: 0 - 999999

Data Rules:

For 5E8 and later, if SSC WXY is entered, ACCESS NUMBER 800 cannot be entered.

2.3 (*) Z

Description: Enter the Z digit signaled in the forward number of the call. The Z digit is either the 10th digit of the 1+8XX Access with FGD Signaling telephone number, or it is associated with the SSCWXY number.

Software Release: 5E8 and later.

Valid Entries: 0 - 9

Data Rules:

If ACCESS NUMBER 800 is entered, Z cannot be entered.

5E9(2) and later:

"Z" must be entered if:

SERVICE TYPE is "IBNS"

SERVICE TYPE is "SVC01" - "SVC41"

2.4 (*) ACCESS NUMBER 800

Description: Enter the 1+8XX Access Call number using Feature Group D Signaling. These the digits are

signaled by the OSO (Originating Screening Office) in the forward number field of a 1+8XX Access call using the Feature Group D signaling. These digits are used to differentiate calls routed to the OSPS directly from a LEC end office or access tandem office from AATOS calls and SDN calls to private networks. This field supports the Toll-Free Access Using FGD Signaling secured feature (SFID 377). For more information on this feature, see Division 2 Section 4A377.

Software Release: 5E9(1) and later.

Valid Entries: 0000000 - 9999999

Data Rules:

If ACCESS NUMBER 800 is entered,

- SSC WXY cannot be entered
- Z cannot be entered

2.5 (*) INWATS NPA

Description: Enter the NPA of the INWATS (INward Wide Area Telecommunications Service) access call using Feature Group D Signaling. This field supports the Toll-Free Services NPA secured feature (SFID 405), which, with the exhaustion of 800 numbers, allows other NPAs to be assigned as INWATS. For more information on this feature, see Division 2, Section 4A405. Also, for direct-dialed calls, the LEC Toll-free Treatment for NPA 888 Phase 1 feature must be active. This is a secured feature with SFID 158. For more information on this feature, see Division 2, Section 4A158.

Software Release: 5E10 and later.

Valid Entries: 100 - 999

Data Rules:

If SSC WXY is entered, ACCESS NUMBER 800 and INWATS NPA cannot be entered.

If ACCESS NUMBER 800 is entered, then INWATS NPA must be entered.

If INWATS NPA is entered, a corresponding INWNPA form (6404 Record) must be entered with a matching INWATS NPA value.

2.6 # SERVICE TYPE

Description: Is this call an AATOS call or an SDN/NRA call?

Valid SERVICE TYPE Entries	
Entry	Definition
AATOS or A	An Alternate Access to Operator Services call For more information on the AATOS feature, see Division 2, Section 3I.
IBNS	Software Release: 5E9(2) only. See "IBNS".
IBNS	Software Release: 5E10 and later. International Billed Number Screening Release 2. "IBNS" supports the International Billed Number Screening Release 2 secured feature (SFID 386). For more information on this feature see Division 2, Section 4A386.
SDAP	Software Release: 5E9(2) and later. 1+8XX SDAP (Speed Dialing Auto-Provisioning) calls. For more information on Card Based SDAP feature, see Division 2, Section 4A365.
SDNNRA or S	A Software Defined Network/Network Remote Access call For more information on the

SVC01 - 41	SDN NRA feature, see Division 2, Section 4A85.

Data Rules:

If "AATOS", "SDAP" or "SDNNRA" is entered, DESTINATION INDEX cannot be entered.

For 5E9(2) and later, if SERVICE TYPE is not

"AATOS"

"SDAP" (5E10 and later.)

"SDNNRA", or

"IBNS",

then LABEL must be entered.

IBNS:

If "IBNS" is entered, then

ACCESS NUMBER 800 must not be entered.

ACQS must be "N"R

DESTINATION INDEX must be entered.

FTS must be "N".

LABEL must not be entered.

PAID must be "N".

Z must be entered.

▲ **WARNING:** TCS ONPA is automatically set to 0 if SERVICE TYPE is "IBNS".

SDNNRA:

If "SDNNRA" is entered:

ACQS must be "N"

PAID must be "N"

SVC01 - SCV41:

If "SVC01" - "SCV41" is entered, then Z must be entered.

2.7 DESTINATION INDEX

Description: Enter the destination index used to route the call to a language-specific operator serving team.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 4095

2.8 FTS

Description: Is this a FTS NRA (Federal Telecommunications System Network Remote Access) call?

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then:

- ACQS must be "N"
- PAID must be "N"
- SERVICE TYPE must be "SDNNRA"

2.9 LABEL

Description: Enter the label displayed at the operator position to indicate the service requested by the caller.

Software Release: 5E9(1) and later.

Valid Entries: 1 - 7 characters

Data Rules:

LABEL must be entered for all SERVICE TYPEs that are not

"AATOS"

IBNS (5E9(2) and later.)

SDAP(5E10 and later.)

"SDNNRA"

If SERVICE TYPE is "IBNS", then LABEL must not be entered.

2.10 ACQS

Description: Is the hotel room number's Class of Charge billing allowed for this AATLSOS call.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.11 PAID

Description: Is PAID and DDD (Direct Distance Dialing) Class of Charge billing allowed for this AATLSOS call?

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

2.12 MEASUREMENT INDEX

Description: Enter the measurement index for Toll-Free Access calls which have an associated label displayed along with measurements on the 30-minute traffic report. This field supports the Toll-Free Access Using FGD Signaling (Phase 2) secured feature (SFID 377). For more information on this feature, see Division 2 Section 4A377.

Software Release: 5E9(2) and later.

Valid Entries: 1 - 100

Data Rules:

If MEASUREMENT INDEX is entered, then a matching MEASDSIG form with a corresponding MEASUREMENT INDEX value must be entered.

2.13 TCS ONPA

Description: Enter the originating NPA to be used during TCS (Terminating Code Screening) checks. If this field is not entered, then the signaled originating NPA is used as the originating NPA during TCS checks. If 0 is entered then no TCS checks apply. The TCS ONPA is specified on a per service basis. This field supports the AATOS (Alternate Access To Operator Services) Fraud Control feature. For more information on this feature, see Division 2, Section 4A401.

Software Release: 5E9(2) and later.

Default: 800

Valid Entries: 0 - 999

Data Rules:

▲ **WARNING:** TCS ONPA is automatically set to 0 if SERVICE TYPE is "IBNS".

2.14 QUIET HEAR TRMT

Description: Is Quiet Hear treatment allowed? The application of the Quiet Hear feature is based on either the Toll-free Access Call Routing Number or Toll-free Access Number as defined in the OSPS Service Designation table. The QUIET HEAR TRMT and AUDIO LOGO BRAND fields support the Quiet Hear secured feature (SFID 402). For more information on this feature, see Division 2, Section 4A402.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "N" is entered, then AUDIO LOGO BRAND must be "N".

2.15 AUDIO LOGO BRAND

Description: Is Quiet Hear Audio Logo branding allowed? The application of Quiet Hear Audio Logo Branding is based on either the Toll-free Access Call Routing Number or Toll-free Access Number as defined in the OSPS Service Designation table. The QUIET HEAR TRMT and AUDIO LOGO BRAND fields support the Quiet Hear secured feature (SFID 402). For more information on this feature, see Division 2, Section 4A402.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then QUIET HEAR TRMT must be "Y".

2.16 AUTO TRMT

Description: Should a 1-800-CALLATT call be provided with OSPS/APS (Automated Position System) handling? The AUTO TRMT field has been added to support the AATLSOS (Alternate Access To Language Specific Operator Services) - AAP (Automated Access Prompting) feature. For more information on this feature, see Division 2, Section 4A619.

Software Release: 5E9(2) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If AUTO TRMT equals "Y", then SERVICE TYPE must be "SVC01" - "SVC41".

2.17 ASAP TREATMENT

Description: Should ASAP (Automated Service Access Prompting) treatment apply to calls on this trunk group? The ASAP TREATMENT field was added to support the ASAP for LSOS (Language Specific Operator Services) Rating Changes secured feature (SFID 414). For more information on this feature, see Division 2, Section 4A414.

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.18 CPDL TREATMENT

Description: Enter the CPDL (Call Processing Data Links) Treatment. The CPDL Treatment specifies whether the 1-800-CALLATT call can be supported by the CPDL Interface interacting with the NRP (Network Routing Processor) platform.

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If AUTO TRMT is "Y", CPDL TREATMENT must be "N".

If CPDL TREATMENT is "Y", ASAP TREATMENT must be "N".

```

srvdesig                5ESS Switch                _
(5474)                  OFFICE DATA ADMINISTRATION
                        OSPS SERVICE DESIGNATION FOR 1+800 AATOS/SDN NRA OR AATLSOS CALLS

```

```

(*) 1. SSC WXY          _____
(*) 2. Z                 _
(*) 3. ACCESS NUMBER 800 _____

```

#4. SERVICE TYPE _____
 5. DESTINATION INDEX _____
 6. FTS N
 7. LABEL _____
 8. ACQS N
 9. PAID N

Figure 1 SAMPLE SRVDESIG FORM 5E9(1) SOFTWARE RELEASE

```

srvdesig                5ESS Switch                _
(5474)                   OFFICE DATA ADMINISTRATION
                           OSPS SERVICE DESIGNATION FOR 1+800 AATOS/SDN NRA OR AATLSOS CALLS

(*)1. SSC WXY            _____                13. QUIET HEAR TRMT  N
(*)2. Z                  _                        14. AUDIO LOGO BRAND N
(*)3. ACCESS NUMBER 800  _____                15. AUTO TRMT      N
(*)4. INWATS NPA         _____                16. ASAP TREATMENT  N
#5. SERVICE TYPE        _____                17. CPDL TREATMENT  N
  6. DESTINATION INDEX  _____
  7. FTS                 N
  8. LABEL               _____
  9. ACQS                 N
 10. PAID                 N
 11. MEASUREMENT INDEX  _____
 12. TCS ONPA            800
  
```

Figure 2 SAMPLE SRVDESIG FORM 5E9(2) SOFTWARE RELEASE

```

srvdesig                5ESS Switch                _
(5474)                   OFFICE DATA ADMINISTRATION
                           OSPS SERVICE DESIGNATION FOR 1+800 AATOS/SDN NRA OR AATLSOS CALLS

(*)1. SSC WXY            _____                13. AUDIO LOGO BRAND N
(*)2. Z                  _                        14. AUTO TRMT      N
(*)3. ACCESS NUMBER 800  _____
#4. SERVICE TYPE        _____
  5. DESTINATION INDEX  _____
  6. FTS                 N
  7. LABEL               _____
  8. ACQS                 N
  9. PAID                 N
 10. MEASUREMENT INDEX  _____
 11. TCS ONPA            800
 12. QUIET HEAR TRMT    N
  
```

Figure 3 SAMPLE SRVDESIG FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4CA: 5475 RECORD OSPS CARRIER SPECIFIC ROUTING (CSR) INTL CREDIT CARD ATTRIBUTES - CSRATTR

1. GENERAL

The 5475 Record is available with the 5E7 Software Release. This record is used to provide information about international credit cards. The information provided on this record is the card vendor's country code as defined by the CCITT, the international administration ID, which is the carrier to be used for international call in the destination country, and CSR preference indicator.

The card vendor country code, CARD VENDOR CC, is used by the OSPS office to determine if a CSR call is also an international calling card call destined for the home country of the card issuer.

The international administration ID, INTL ADMIN ID, and CSR preference indicator, PREFERENCE ID, are signaled by the OSPS office (via TOLL), to the GATEWAY office. The GATEWAY office depending on the condition of the network, the value of INTL ADMIN ID, and the value of the PREFERENCE ID gives the CSR calls the following treatment:

- if the card issuer's network, CSR ATTR ID, is available, the CSR call is routed to that INTL ADMIN ID, the carrier's network in the destination country.
- if card issuer's network is not available and if PREFERENCE ID, the preference indicator is set to "PREFERRED", the CSR call is overflowed to another carrier's network in the destination country.
- if the card issuer's network is not available and INTL ADMIN ID is set to "MANDATORY", the CSR call is denied. (See Division 2 Section 3I for more information on CSR feature.)

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.58.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CSR ATTR ID

Description: Enter the Carrier Specific Routing Attribute ID. It is used as an index to determine information for a particular card number when an international call is made. The CSR ATTR ID value is assigned to the TCR (Telephone Credit Card) number on the TCCID form.

Required Field.

Valid Entries: 1 - 200

2.3 # CARD VENDOR CC

Description: Enter the Card Vendor country code. This field provides the country code of the card issuer as defined by the CCITT.

Required Field.

Valid Entries: 1 - 999

2.4 # INTL ADMIN ID

Description: Enter the International Administration ID. The Administration ID represents the international carrier that should be used for routing a credit card call in the home country of the card issuer. This parameter is signaled by the OSPS office (via TOLL), to the GATEWAY office, and the GATEWAY office uses it to route the CSR call to an appropriate carrier's network in the destination country.

Required Field.

Valid Entries: 1 - 7

2.5 # PREFERENCE ID

Description: Enter the CSR Preference Indicator. This attribute indicates whether the carrier to be used for the CSR international credit card, once the call reaches the home country of the card issuer, has to be the carrier identified in the INTL ADMIN ID, "MANDATORY", or if the INTL ADMIN ID carrier is not available, the call may be overflowed to another carrier in that country, "PREFERRED". This parameter is signaled by the OSPS office (via TOLL), to the GATEWAY office. The GATEWAY office uses it when routing the CSR call.

Required Field.

Valid PREFERENCE ID Entries	
Entry	Definition
MANDATORY	Carrier identified in the INTL ADMIN ID
PREFERRED	Overflow to another carrier in that country, if the INTL ADMIN ID carrier is not available.

```

csrattr          5ESS Switch          —
(5475)          OFFICE DATA ADMINISTRATION
                OSPS CARRIER SPECIFIC ROUTING (CSR) INTL CREDIT CARD ATTRIBUTES
  
```

```

*1. CSR ATTR ID      25
#2. CARD VENDOR CC  616
#3. INTL ADMIN ID    2
#4. PREFERENCE ID    MANDATORY
  
```

Figure 1 SAMPLE CSRATTR FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4CB: 5476 RECORD OSPS SM INFORMATION - OSPSSMINF

1. GENERAL

The 5476 Record is available for the 5E6 - 5E9(2) Software Releases. The OSPS Switching Module Information form defines present or future OSPS equipment on an SM for distribution requirements of group types of GPD OSPS (OSPS Group Partitioned Data) and GPD OPRT (SM's with operator traffic trunks Group Partitioned data)

1.1 Recent Change View

This form does not have a corresponding Recent Change View.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SM

Description: Enter the Switching Module number.

Required Field.

Valid Entries: 1 - 192

2.3 # CONFIG

Description: Enter the SM Configuration.

Required Field.

Valid CONFIGURATION Entries	
Entry	Definition
BASIC	Includes software installed in every SM.
STANDARD	Includes all of the "Basic" programs, plus special programs supporting toll service (e.g., CSG, OSPS trunking, and Federal Systems).
LOADED	Includes all of the "Basic" and "Standard" programs, plus programs supporting ISDN services and OSPS.
SM2000	Software Release: 5E9(2) and later. Includes SM-2000 software.

Data Rules:

For 5E9(1) and earlier, a "BASIC" SM can not be a PSM or be equipped with DTA RAFs, operator traffic trunks, or OSPS operator trunks.

The entry in this form should match the CONFIGURATION field on the corresponding EQIM form where SM on the EQIM form matches the SM on the OSPSSMINF form.

2.4 PSM

Description: Are regular or interflow operator positions assigned to this SM? If an SM is a PSM (Position

Switching Module) then either "DAOPER" is entered in the OSPS SRVCL on the OSPS DSL form, or "IFOPER" is entered as the TRKCLS on the TKGRP form.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If PSM is "Y", CONFIG should be LOADED.

If PSM is "N", DTA RAF should be entered.

If both PSM and OPR TR TRK are "N", OSPS OPR TRK should be entered.

A "BASIC" SM can not be a PSM or be equipped with DTA RAFs, operator traffic trunks, or OSPS operator trunks.

If "Y" is entered, then regular operator positions or interflow operator positions should be assigned to an equipment number in the SM. Regular operator positions and interflow operator positions are assigned equipment numbers in the LCEN or DEN fields on OSPSOP forms. The first three digits in the LCEN or DEN is the SM number.

For 5E8 and later, the entry in this field should match OSPS PSM on the corresponding EQIM for where SM on the EQIM form matches the SM on the OSPSSMINF form.

2.5 DTA RAF

Description: Is a DTA RAF on this SM? If a DTA RAF is on this SM, then "DTA" or "CTR" will be entered in the RAF TYPE field on the EQRA form.

Required Field.

Default: N(5E9(1) and earlier)

Valid Entries: Y, N

Data Rules:

If PSM is "N", DTA RAF should be entered.

A "BASIC" SM can not be a PSM or be equipped with DTA RAFs, operator traffic trunks, or OSPS operator trunks.

If "Y" is entered, then at least one DTA RAF should be equipped in the SM. An SM on the EQRA form should match the SM on this form and SERVICE TYPE on the EQRA form should be "DTA" or "CTR".

2.6 OPR TR TRK

Description: Are operator traffic trunks in this SM? If Operator traffic trunks are on this SM, then "DIOR", "FIOPR", "FIOPRI" or "INAISTRK" is entered in the TRKCLS field on the TKGRP form.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If both PSM and OPR TR TRK are "N", then OSPS OPR TRK should be entered.

A "BASIC" SM can not be a PSM or be equipped with DTA RAFs, operator traffic trunks, or OSPS operator trunks.

If "Y" is entered, then operator traffic trunks should be assigned in the SM specified on the form. Operator traffic trunks are in a trunk group with a trunk class of

"DIOR"

"FIOPR"

"FOPRI"

"INAISTRK" The TKGRP form should point to at least one TRUNK form (matching TGN) where the first three digits of the TEN, DEN, or NEN match the SM on the OSPSSMINF form.

2.7 OSPS OPR TRK

Description: Are OSPS operator trunks in this SM? OSPS operator trunks on this SM are also entered on the OPRTK form.

Required Field.

Default: N(5E9(1) and earlier)

Valid Entries: Y, N

Data Rules:

If both PSM and OPR TR TRK are N, then OSPS OPR TRK should be entered.

A "BASIC" SM can not be a PSM or be equipped with DTA RAFs, operator traffic trunks, or OSPS operator trunks. If "Y" is entered, then OSPS operator trunks should be assigned in the SM specified on the form. OSPS operator trunk groups are specified on the OPRTK form. An OPRTK form should point to at least one trunk form (matching TGN) where the first three digits of the TEN, DEN, or NEN match the SM on the OSPSSMINF form.

	5ESS Switch
ospssminf	OFFICE DATA ADMINISTRATION
5476	OSPS SM INFORMATION
*1. SM	_____
#2. CONFIG	_____
3. PSM	N
4. DTA RAF	N
5. OPR TR TRK	N
6. OSPS OPR TRK	N

Figure 1 SAMPLE OSPSSMINF FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 4CC: 5477-1 RECORD NPA NXXS OUTSIDE THE UNITED STATES - NONUSA

1. GENERAL

The 5477-1 Record is available with the 5E8 Software Release. This record is used to construct a table of NPA NXXs that are located within the NANP (North American Numbering Plan), but are outside the United States.

The table indicates if the NPA NXX is an acceptable terminating number for a DIOR country-to-country call. This table is used by the DIOR CPS (Direct International Originations Country Pair Screening) feature to screen DIOR country-to-country calls. For more information on the special feature, DIOR CPS, see Division 2, Section 4C4. For more information on the DIOR feature, see Division 2, Section 3I.

For 5E9(1) and later, this form is also applicable to the ICCV Request for Call Duration and Charge feature, see Division 2, Section 3I.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.6

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * NPA

Description: Enter the NPA of the forward number which is within the NANP, but not within the United States, and which is being identified by the DIOR Country Pair Screening feature.

Required Field.

Valid Entries: 3 digits for the NPA

For 5E8: N is (2 - 9), P is (0 - 1), A is (0 - 9)

For 5E9(1) and later: 200 - 999

2.3 (*) NXX

Description: Enter the office code, NXX, of the forward number, which is being identified by the Country Pair Screening Feature. If this field is not entered, it indicates that all NXXs are applicable for the NPA entered on this form.

Valid Entries: 200 - 999

Data Rules:

If this field is blank (indicating all NXXs for this NPA), then no other NONUSA forms may exist with the same NPA value.

2.4 # HOME COUNTRY

Description: Enter 3 alphanumeric characters to identify the home country of this NPA-NXX for the ICCV

Request for Call Duration and Charge feature.

Software Release: 5E9(1) and later.

Required Field.

Valid Entries: 1 - 3 alphanumeric characters

2.5 MEMBER

Description: The name of this field was changed to DIOR MEMBER in 5E9(1). This field name applies to 5E8. See DIOR MEMBER for usage information.

2.6 DIOR MEMBER

Description: Are DIOR country-to-country calls permitted to terminate to this NPA NXX? This field specifies whether the NPA NXX(s) entered on this form identifies a country which is a member of a group of countries that allow DIOR calls to terminate to other group members. (This field was called MEMBER for 5E8.)

Required Field.

Default: N

Valid Entries: Y, N

```

nonusa                      5ESS Switch      —
(5477-1)                    OFFICE DATA ADMINISTRATION
                             NPA-NXXS OUTSIDE THE UNITED STATES

* 1. NPA      809
(*) 2. NXX     952
    3. MEMBER Y
  
```

Figure 1 SAMPLE NONUSA FORM 5E8 SOFTWARE RELEASE

```

nonusa                      5ESS Switch      —
(5477-1)                    OFFICE DATA ADMINISTRATION
                             NPA-NXXS OUTSIDE THE UNITED STATES

*1. NPA      506
(*) 2. NXX    —
#3. HOME COUNTRY CAN
    4. DIOR MEMBER Y
  
```

Figure 2 SAMPLE NONUSA FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CD: 5478 RECORD INTERNATIONAL CREDIT CARD VALIDATION DATABASE FORM - ICCVDB

1. GENERAL

The 5478 Record is available with 5E9(1) and later Software Releases. This table is used to provide a ratio percentage of successful queries on a card issuer basis and the minimum number of query attempts required before the query success ratio is applied. It includes a label which is printed on the measurement and software alarm reports. Each entry is linked to the card issuer by the ICCV DB LABEL field on the TCCID form.

Each entry in this table contains information about an ICCV card issuer.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.60

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * DB NUMBER

Description: The entry in this field is used to link this view with ICCV (International Credit Card Validation) card issuers on the TCCID form (5454 Record). A DB NUMBER of 0 represents all data bases not specified on the TCCID form.

Required Field.

Valid Entries: 0 - 16

Data Rules:

If DB NUMBER is 0, then DB LABEL is set to "DFALT".

2.3 # DB LABEL

Description: DB LABEL is used as a header on software alarm and measurements reports to identify an individual or group of ICCV (International Credit Card Validation) card issuers. The entry "DFALT" is reserved for use as a "default" group of ICCV card issuers.

Required Field.

Valid Entries: 1 - 5 alpha-numeric characters or DFALT

Data Rules:

DB LABEL must be unique.

If DB NUMBER is 0, DB LABEL must be "DFALT".

If a TCCATTR form (5473 Record) corresponds with a TCCID form (5454 Record), i.e. the CARD ATTR ID on both forms match, and the SIGNALING TYPE on the TCCATTR form is "ICCV", then the DB LABEL on the TCCID form must match the DB LABEL entry on this form.

2.4 ALARM THR

Description: Enter the CAS ICCV TCAP query alarm threshold in terms of the percentage of the number of successful queries. If the percentage falls below this threshold, an alarm is activated.

Required Field.

Default: 95 (%)

Valid Entries: 0 - 100 (%)

2.5 MIN QUERY

Description: Minimum number of CAS ICCV TCAP query attempts required in a 15 minute period before query success ratio is applied and a software alarm calculation is performed.

Required Field.

Default: 40

Valid Entries: 1 - 64

FOR UPDATE ONLY

The following field is for Recent Change Update purposes only.

2.6 NEW DB LABEL

Description: This is a Recent Change only field. Enter the new database label to be used as a header on software alarm and measurements reports. This field can only be entered in an update operation. The entry "DFALT" is reserved for use as a "default" group of ICCV card issuers.

Valid Entries: 1 - 5 alpha-numeric characters or DFALT

Data Rules:

If NEW DB LABEL equals "DFALT", then DB NUMBER must equal 0.

NEW DB LABEL must not equal DB LABEL.

```
iccvdb                      5ESS Switch          —
(5478)                     OFFICE DATA ADMINISTRATION
                           INTERNATIONAL CREDIT CARD VALIDATION DATABASE
```

```
*1. DB NUMBER 02
#2. DB LABEL  ATTNS
  3. ALARM THR 95
  4. MIN QUERY 40
```

```
FOR UPDATE ONLY
NEW DB LABEL
```

Figure 1 SAMPLE ICCVDB FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CF: 5480 RECORD OSPS DIFFERENTIATION OF CARD SERVICE CHARGES FORM - CMPCRD

1. GENERAL

The 5480 Record is available with the 5E8 Software Release. This form assigns the comparison calling card defined by the TCA (Telephone Company Administration) for the Differentiation of Card Service Charges feature, and assigns a label which defines the Issuer of the comparison card. This comparison card can be used as a marketing technique to compare calling card prices between the calling customer's card and a TCA defined comparison card.

Only one CMPCRD form can be entered for an office.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.45

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * COMPARISON CARD

Description: Enter the first 2 - 7 digits of the comparison card. This is the comparison Card Vendor/Issuer ID number. It will be used in rate quote queries.

For 2 - 5 or 7-digit card numbers:

- If the 2 - 5 or 7-digit card number is found in the card recognition tables, the entry is accepted.
- If the card number is not found in the card recognition tables and the TCA entered 2-5 digits or 7 digits, the entry must be rejected.

For a 6-digit number:

- If a 6-digit number is found in the card recognition tables, and the TCA did not indicate the card is a 10+4 card, then OSPS must accept the entry.
- If a 6-digit number is found in the card recognition tables, and the TCA indicated the number is a 10+4 card, then OSPS must reject the entry.
- If a 6-digit number is not found in the card recognition tables, and the TCA did not indicate the card is a 10+4 card, the OSPS must reject the entry.
- If a 6-digit number is not found in the card recognition tables, and the TCA indicated the number is a 10+4 card, the OSPS must accept the entry.

Required Field.

Default: N

Valid Entries: 00 - 9999999

Data Rules:

If COMPARISON CARD is not a six-digit number, CARD IS 10P4 must be "N".

2.3 CARD IS 10P4

Description: Is this comparison card a 10+4 card?

Required Field.

Valid Entries: Y, N

Data Rules:

If COMPARISON CARD is not a six-digit number, then this field must be "N".

If CARD IS 10P4 is "N", then the entry in the COMPARISON CARD on this form must match ISSUER ID DIGITS on the TCCID form (5454 Record).

If CARD IS 10P4 is "Y", then COMPARISON CARD entry can not match any ISSUE ID DIGITS entry on the TCCID form.

2.4 # CARD LABEL

Description: Enter 1 - 5 characters that is a meaningful label for the comparison card. This label will display the name of the card issuer on the RATE page of the OSPS VDT/CST when a comparison card is used during processing of OSPS calling card Rate Quote queries.

Required Field.

Valid Entries: 1 - 5 characters

cmpcrd	5ESS Switch	—
(5476)	OFFICE DATA ADMINISTRATION	
	OSPS DIFFERENTIATION OF CARD SERVICE CHARGES	

*1. COMPARISON CARD 891288
2. CARD IS 10P4 N
#3. CARD LABEL AT&T

Figure 1 SAMPLE CMPCRD FORM 5E8 AND LATE SOFTWARE RELEASES

SEC. 4CG: 5481 RECORD OSPS BACK NUMBER ALTERNATE ROUTING - SCROAR

1. GENERAL

The 5481 Record is available for 5E7 and later Software Releases.

The OSPS Back Number Alternate Routing form is used to populate the OSPS Back Number Alternate Routing Table. This table provides alternate routing based on the alternate screening index that is directly associated with the screening code for the back line number of the call. A maximum of 64 different SCREEN CODEs can be defined.

1.1 OLS Alternate Routing

This form was added for the OAR (Originating Line Screening Alternate Routing) secured feature. (For more information on the OAR feature, see Division 2, Section 4A76.) The OLS (Originating Line Screening) Alternate Routing feature allows an OSPS to populate alternate routing translation data for a particular call and apply it just before routing the call from the OSPS to the final routing destination. The final routing destination is based on the alternate screening index, SCR N IDX, that is directly associated with the screening code, SCR N CODE, applicable to the back line number of the call. Possible destinations can be anything that can be accomplished through routing translations: including announcement facility (e.g. 13A announcement), reorder, or an alternate trunking arrangement.

This feature uses the screening code applied to the back number of the call to determine the alternate screening index to be used. OAR works in conjunction with the existing OLS feature which allows the OSPS to assign OLS code(s) to the back line number(s). The OSPS could choose to assign all the back line number(s) to one OLS code or assign certain back line number(s) to separate OLS codes which can provide a finer control in handling the call for this feature.

This is a secured feature. It is activated on the SFSYS form (5713-1 Record) by setting SFID 76 to "Y". Also, the entry in the SCR N IDX field must also be entered in the SCR field on the RAR form.

1.2 Recent Change View

The corresponding Recent Change View for this form is 26.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SCR N CODE

Description: Enter the OSPS Back Number Screen Code associated with the back number screening.

Required Field.

Valid Entries: 1 - 999

2.3 # SCR N IDX

Description: Enter the alternate screening index.

Required Field.

Valid Entries: 1 - 4095

Data Rules:

If SCRIN IDX is entered on this form, then that screen index must be entered in the SCR field on an RAR form.

	5ESS Switch	—
scroar	OFFICE DATA ADMINISTRATION	
(5481)	OSPS BACK NUMBER ALTERNATE ROUTING	

*1. SCRIN CODE ____
#2. SCRIN IDX ____

Figure 1 SAMPLE SCROAR FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 4CH: 5482A/B RECORD

OSPS BLOCKING 900 CALLS FOR LEC CARDS FORM - BLK900

1. GENERAL

The 5482 Record is available with 5E7 and later Software Releases. It is used by the OSPS Blocking 900 Calls for LEC Cards feature to determine if a LEC calling card can be used to bill a 900 number call. (For more information on OSPS Blocking 900 Calls for LEC Card features see Division 2, Section 4A77.) For 5E7, identification is based on the first three card digits, either the NPA (Numbering Plan Area) or RAO (Revenue Accounting Office) code for 5E7. For 5E8 and later, in addition to identification based on NPA or RAO, identification may be based on the first six digits of the card for specific NXXs within an NPA.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.59.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * NUMBER

Description: Enter the NPA or RAO code associated with the LEC calling card.

Required Field.

Valid Entries: 200 - 999

2.3 * TYPE

Description: This entry indicates whether an NPA or an RAO is entered in the NUMBER field.

Required Field.

Valid TYPE Entries	
Entry	Definition
N or NPA	An NPA NUMBER is entered.
R or RAO	An RAO NUMBER is entered.

Data Rules:

If "R" is entered, then the LIST OF NXXs cannot be entered, and "A" or "B" must be entered in the STATUS field.

2.4 # STATUS

Description: This entry indicates if 900 calls should be blocked or allowed for the LEC card corresponding to the RAO or NPA.

- WARNING:** If TYPE is "NPA" and "A" or "B" is entered for STATUS, **all** entries in the LIST OF NXXs will be changed to match the entry in this field.

Required Field.

Valid STATUS Entries	
Entry	Definition
A	Allow the RAO or all NXXs for the NPA to charge 900 calls to the corresponding LEC calling card.
B	Block the RAO or all NXXs for the NPA from charging 900 calls to the corresponding LEC calling card.
P	Software Release: 5E8 and later. Partial block. Block only the NXXs with "B" entered in the LIST OF NXXs (200-999) from charging 900 calls to the corresponding LEC calling card for the NPA.

Data Rules:

For 5E8 and later, if STATUS is "P", there must be at least one entry in the LIST OF NXXs.

2.5 LIST OF NXXs (200-999)

Description: Enter if an NXX for 900 calls should be blocked to the LEC card corresponding to the NPA NXX. If 900 calls should be blocked for the NPA NXX, enter a "B" in the table for the NXX number. If 900 calls are allowed, leave the entry blank.

Software Release: 5E8 and later.

Valid Entries:

Valid LIST OF NXXs Entries	
Entry	Definition
blank	a space or blank indicates the NPA-NXX is allowed to charge 900 calls.
B	Block 900 calls for this NXX.

```

                                5ESS Switch
blk900                OFFICE DATA ADMINISTRATION
(5482)                OSPS BLOCKING 900 CALLS FOR LEC CARDS

```

```

NPA/RAO
*1. NUMBER 708
*2. TYPE    NPA
#3. STATUS B

```

Figure 1 SAMPLE BLK900 FORM 5E7 SOFTWARE RELEASE

```

SCREEN 1 OF 3                                5ESS Switch
blk900                OFFICE DATA ADMINISTRATION
(5482-A/B)            OSPS BLOCKING 900 CALLS FOR LEC CARDS

```

```

NPA/RAO
*1. NUMBER 708
*2. TYPE    NPA
#3. STATUS P

```

```

                                4. LIST OF NXXs (200-399)
ROW    01234 56789 ROW    01234 56789 ROW    01234 56789 ROW    01234 56789
1  200 _____ 6  250 _____B___ 11  300 _____ 16  350 _____
2  210 _____ 7  260 _____ 12  310 _____ 17  360 _____
3  220 _____B___ 8  270 _____ 13  320 B_____ 18  370 _____

```

4	230	_____	_____	9	280	_____	_____	14	330	_____	_____	19	380	_____	B_____
5	240	_____	_____	10	290	_____	_____	15	340	_____	_____	20	390	_____	_____

SCREEN 2 OF 3

5ESS Switch

blk900

OFFICE DATA ADMINISTRATION

(5482-A/B)

OSPS BLOCKING 900 CALLS FOR LEC CARDS

4. LIST OF NXXs (400-799)

ROW	01234	56789	ROW	01234	56789	ROW	01234	56789	ROW	01234	56789
21	400	_____	31	500	_____	41	600	_____	51	700	_____
22	410	_____	32	510	_____	42	610	_____	52	710	B_____
23	420	_____	33	520	_____	43	620	_____	53	720	_____
24	430	_____	34	530	_____	44	630	_____	54	730	_____
25	440	_____	35	540	_____	45	640	_____	55	740	_____
26	450	_____	36	550	_____	46	650	_____	56	750	_____
27	460	_____	37	560	_____	47	660	_____	57	760	_____
28	470	_____	38	570	_____	48	670	_____	58	770	_____
29	480	_____	39	580	_____	49	680	_____	59	780	_____
30	490	_____	40	590	_____	50	690	_____	60	790	_____

SCREEN 3 OF 3

5ESS Switch

blk900

OFFICE DATA ADMINISTRATION

(5482-A/B)

OSPS BLOCKING 900 CALLS FOR LEC CARDS

4. LIST OF NXXs (800-999)

ROW	01234	56789	ROW	01234	56789	ROW	01234	56789	ROW	01234	56789
61	800	_____	66	850	_____	71	900	_____	76	950	_____
62	810	_____	67	860	_____	72	910	_____	77	960	_____
63	820	_____	68	870	_____	73	920	_____	78	970	_____
64	830	_____	69	880	_____	74	930	_____	79	980	_____
65	840	_____	70	890	B_____	75	940	_____	80	990	_____

Figure 2 SAMPLE BLK900 FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CI: 5483-1 RECORD NON-ENGLISH LANGUAGE ANNOUNCEMENT APPLICATION TYPES - LANGTBL

1. GENERAL

The 5483-1 Record is available with the 5E9(1) Software Release. An entry in this table maps the language value for a calling card to the announcement application type so that card announcements may be played in the appropriate language for a customer. It also maps the language to the operator position display. The LANGUAGE field is equivalent to the LOP (Language Override Parameter) that may be returned in a calling card query reply from the CAS (Customer Account Services) NCP (Network Control Point) database.

Each non-English language that is to be used must have an entry (and only one) entry in this table. This form allows each language to be activated or deactivated independently.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.66.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * LANGUAGE

Description: Enter the non-English language identifier. The language value is retrieved from the card issuer database (TCCID form, 5454 Record) or is returned in a CAS card validation query as a language of preference. This table maps the language value to the proper set of announcements to play so that the announcements are in the language that the card issuer or customer has selected.

Required Field.

Valid Entries: 2 - 7

Data Rules:

The entry in this field may not exceed the MAX LOP value entered on the OSPSOPT form (5424 Record).

2.3 ACTIVATE

Description: Is this language activated for use on card call announcements? This field may be set to "N" if the phrase set for this language has not been populated on the specified RAF announcement board. A value of "N" will result in English announcements being used instead of the language specified on this form.

Required Field.

Default: N

Valid Entries: Y, N

2.4 # ANNC APPL

Description: Enter the announcement application type. Special announcement applications are defined to allow using the same announcement header IDs for non-English language announcements as are used for

English OSPS card announcements.

Required Field.

Valid Entries: L[2 - 7]

Data Rules:

Each entry in this field must be unique.

2.5 # DISPLAY ID

Description: Enter the language identifier to be displayed at the operator position indicating which non-English language is associated with this call.

NOTE: Upper case letters are not translated into lower case letters.

Required Field.

Valid Entries: 1 - 3 alphanumeric characters

Data Rules:

Each entry in this field must be unique.

If LANGUAGE is entered on the TCCID form (5454 Record), a matching value must be entered in this field, and the MAX LOP field on the OSPSOPT form (5424 Record) must be entered.

```

langtbl                               5ESS Switch      —
(5483-1)                             OFFICE DATA ADMINISTRATION
                                     NON-ENGLISH LANGUAGE ANNOUNCEMENT APPLICATION TYPES

*1. LANGUAGE      3
  2. ACTIVATE     Y
#3. ANNC APPL    L3
#4. DISPLAY ID   GER
  
```

Figure 1 SAMPLE LANGTBL FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CJ: 5483-2 RECORD

ENGLISH PHRASE ID TO NON-ENGLISH PHRASE ID MAPPING - PHRLANG

1. GENERAL

The 5483-2 Record is available with the 5E9(1) Software Release. An entry in this form maps an English language phrase ID to a corresponding non-English language phrase ID. This is necessary only for those phrase IDs that are not associated with an announcement header ID. For example, the entries in this form map English phrases, such as those used for CMA (Customized Market Announcements) to corresponding non-English language phrases specified in the OLS (Originating Line Screening) record.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.67.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * ENGLISH PHRASE ID

Description: Enter the English phrase ID to be mapped to a non-English language phrase ID.

Required Field.

Valid Entries:

For 5E9(1): 1 - 16,000

For 5E9(2) and later: 1 - 16,383 or 16,600 - 65,530

Data Rules:

For each ENGLISH PHRASE ID entered on this form, there must be a matching PHRASE ID on the PHRASE form (5534 Record) where APPLICATION is "OSPSTA".

2.3 * NON ENGLISH ANNC APPL

Description: Enter the announcement application type of the non-English language used to map the English phrase ID to the non-English phrase ID>

Required Field.

Valid Entries: L[2 - 7]

Data Rules:

For each PHRLANG form, there must be a corresponding PHRASE form where NON ENGLISH PHRASE ID and NON ENGLISH ANNC APPL on the PHRLANG form match PHRASE ID and APPLICATION on the PHRASE form.

2.4 # NON ENGLISH PHRASE ID

Description: Enter the non-English phrase ID which corresponds to the English phrase ID entered in ENGLISH

PHRASE ID.

Required Field.

Valid Entries:

For 5E9(1): 1 - 16,000

For 5E9(2) and later: 1 - 16,383 or 16,600 - 65,530

Data Rules:

For each PHRLANG form, there must be a corresponding PHRASE form where NON ENGLISH PHRASE ID and NON ENGLISH ANNC APPL on the PHRLANG form match PHRASE ID and APPLICATION on the PHRASE form.

```
phrlang          5ESS Switch          _
(5483-2)          OFFICE DATA ADMINISTRATION
                  ENGLISH PHRASE ID TO NON_ENGLISH PHRASE ID MAPPING

*1. ENGLISH PHRASE ID      00207
*2. NON ENGLISH ANNC APPL L4
#3. NON ENGLISH PHRASE ID 10217
```

Figure 1 SAMPLE PHRLANG FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CK: 5477-2 RECORD

DIOR COUNTRY PAIR SCREENING PERMISSIONS - DCPSP

1. GENERAL

The 5477-2 Record is available with the 5E8 Software Release. It is used to construct a table of Originating and Terminating Country Codes for the DIOR CPS (Country Pair Screening) feature. CPS uses this table to screen DIOR Country-to-Country calls to allow completion of calls to countries if the originating country does not restrict country-to-country DIOR calls. For more information on the special feature DIOR CPS see Division 2, Section 3K on DIOR features.

For 5E8, the COUNTRY CODE field contains either an originating or a terminating country code depending upon the value in ORIG CARR. If 0 - 9 is entered for ORIG CARR, then the value entered in COUNTRY CODE is an originating country code. A terminating country code does not have a carrier associated with it.

For 5E9(1) and later, the COUNTRY CODE field contains the DIOR Originating Country Code.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.82. This view was re-numbered from 27.8 to 27.82 in order to keep all the DIOR views together.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * COUNTRY CODE

Description: **For 5E8 only**, enter the originating or terminating country code. If 0 - 9 is entered for ORIG CARRIER, then the value entered in this field is an originating country code. A terminating country code does not have an entry in ORIG CARR. Country codes are defined on the CCNAME form (5463 Record).

For 5E9(1) and later, enter the DIOR originating country code for an international call. The value specified should match the number found in the country code portion of the international forward number.

This field is named ORIG CC on RC view 27.82.

Required Field.

Valid Entries: 200 - 999

Data Rules:

For 5E8 only, if COUNTRY CODE is greater than 199, the COUNTRY CODE value on this form must match a COUNTRY NUMBER on a corresponding CCNAME form.

For 5E9(1) and later, every COUNTRY CODE entered on this form must have a matching COUNTRY NUMBER entered on a CCNAME form.

2.3 (*)ORIG CARR

Description: The name of this field was changed to ORIG CARRIER in 5E9(1). This field name applies to 5E8

only. See ORIG CARRIER for usage information.

2.4 (*) ORIG CARRIER

Description: Enter the Originating Carrier Code providing the DIOR service from the country specified in Country Code. The carrier code identifies the carrier from which the DIOR call originates. The originating carrier is a one-digit code that is the seventh digit from the left of the 10-digit DIOR back number. (For more information on DIOR back numbers see the DIOR feature section in Division 2, Section 3I.) (This field was called ORIG CARR for 5E8.)

Valid Entries: 0 - 9

Data Rules:

When COUNTRY CODE is less than 200, ORIG CARR cannot be entered.

If ORIG CARR is not entered, CALL ANYWHERE must be "N".

2.5 CALL ANYWHERE

Description: Does the originating carrier providing DIOR service permit calls to all countries? If "N" is entered, then the originating country has terminating restrictions.

Software Release: 5E8 only.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If ORIG CARR is not entered, CALL ANYWHERE must be "N".

2.6 # TERM CC

Description: Enter the dialable country code that applies to the DIOR Originating Country Code when a DIOR caller is placing a call to that country.

Software Release: 5E9(1) and later.

Required Field.

Valid Entries: 2 - 999

2.7 # COMPLETION TYPE

Description: Enter the call completion type identified for the ORIG CARRIER providing DIOR service for the COUNTRY CODE entry.

Software Release: 5E9(1) and later.

Required Field.

Valid Entries:

Valid COMPLETION TYPE Entries	
Entry	Definition
R or MEMBER	Permit completion to member countries only.
R+ or MEMBER+	Permit completion to all member countries plus certain non-member countries listed here.
R- or MEMBER-	Permit completion to all member countries except certain members listed on this form in the TERMINATING COUNTRY IDENTIFIER LIST.

W or WORLD	Permit completion to any country
W- or WORLD-	Permit completion to any country except those listed on this form in the TERMINATING COUNTRY IDENTIFIER LIST.

Data Rules:

If "MEMBER" or "WORLD" is entered, no entries are allowed in the TERMINATING COUNTRY IDENTIFIER LIST.

If "MEMBER+", "MEMBER-", or "WORLD-" is entered then there must be at least one entry in the TERMINATING COUNTRY IDENTIFIER LIST.

TERMINATING COUNTRY IDENTIFIER LIST (CTRYLIST)

The following ROW ID fields specify the country code for adding or subtracting from the normal list of allowed calls. The entries in this list must be unique.

2.8 ROW ID

Description: Enter the dialable country code (digits) or country name abbreviation (characters) for adding or subtracting from the normal list of allowed calls.

Software Release: 5E9(1) and later.

Required Field.

Valid Entries: 1 - 3 digits or characters

Data Rules:

This field must have at least one entry if the COMPLETION TYPE field is set to "MEMBER-", "MEMBER+", or "WORLD-". This field cannot have any entries if the COMPLETION TYPE field is set to "MEMBER", or "WORLD".

For each 1 - 3 digit TERMINATING COUNTRY IDENTIFIER LIST ID entered where COMPLETION TYPE is "MEMBER-", a matching TERM CC must be entered on this or on another DCPSP form.

If 1 - 3 digits are entered and the COMPLETION TYPE is "MEMBER+", then the TERM CC entry on this form or TERM CC entry any other DCPSP form cannot match this entry.

Each three character country code with a COMPLETION TYPE of "MEMBER+", "MEMBER-", or "WORLD-" must be defined on a corresponding NONUSA form (5477-1 Record). A corresponding NONUSA form is found by matching the TERMINATING COUNTRY IDENTIFIER LIST ID with HOME COUNTRY on the NONUSA form. If the COMPLETION TYPE is "MEMBER-", DIOR MEMBER on the corresponding NONUSA form must be "Y". When the COMPLETION TYPE is "MEMBER+", DIOR MEMBER must be "N".

```

dcpsp                               5ESS Switch           _
(5477-2)                           OFFICE DATA ADMINISTRATION
                                   DIOR COUNTRY PAIR SCREENING PERMISSIONS

```

- *1. COUNTRY CODE 44
- (*) 2. ORIG CARR 3
- 3. CALL ANYWHERE Y

Figure 1 SAMPLE DCPSP FORM 5E8 SOFTWARE RELEASE

SCREEN 1 OF 2

5ESS Switch

dcpssp

OFFICE DATA ADMINISTRATION

(5477-2)

DIOR COUNTRY PAIR SCREENING

*1. COUNTRY CODE ____

#3. TERM CC ____

*2. ORIG CARRIER _

#4. COMPLETION TYPE _____

5. TERMINATING COUNTRY IDENTIFIER LIST (CTRYLIST)>

ROW ID	ROW ID	ROW ID	ROW ID	ROW
1 ____	9 ____	17 ____	25 ____	33 ____
2 ____	10 ____	18 ____	26 ____	34 ____
3 ____	11 ____	19 ____	27 ____	35 ____
4 ____	12 ____	20 ____	28 ____	36 ____
5 ____	13 ____	21 ____	29 ____	37 ____
6 ____	14 ____	22 ____	30 ____	38 ____
7 ____	15 ____	23 ____	31 ____	39 ____
8 ____	16 ____	24 ____	32 ____	40 ____

SCREEN 2 OF 2

5ESS Switch

dcpssp

OFFICE DATA ADMINISTRATION

(5477-2)

DIOR COUNTRY PAIR SCREENING

5. TERMINATING COUNTRY IDENTIFIER LIST (CTRYLIST)

ROW ID	ROW ID	ROW ID	ROW ID	ROW ID	ROW ID
41 ____	51 ____	61 ____	71 ____	81 ____	91 ____
42 ____	52 ____	62 ____	72 ____	82 ____	92 ____
43 ____	53 ____	63 ____	73 ____	83 ____	93 ____
44 ____	54 ____	64 ____	74 ____	84 ____	94 ____
45 ____	55 ____	65 ____	75 ____	85 ____	95 ____
46 ____	56 ____	66 ____	76 ____	86 ____	96 ____
47 ____	57 ____	67 ____	77 ____	87 ____	97 ____
48 ____	58 ____	68 ____	78 ____	88 ____	98 ____
49 ____	59 ____	69 ____	79 ____	89 ____	99 ____
50 ____	60 ____	70 ____	80 ____	90 ____	100 ____

Figure 2 SAMPLE DCPSP FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CL: 5484 RECORD OSPS DIOR SPEED DIALING - DIORS

1. GENERAL

The 5484 Record is available with the 5E8 and later Software Releases. The OSPS DIOR (Direct International Originations) Speed Dialing form assigns a speed-dialing code to a telephone number. DIOR speed dialing provides USA Direct customers with the ability to use abbreviated or speed-dialing codes to access a number of information services. The numbers of these services are maintained in this form and are accessible to all DIOR customers through a 1- to 3-digit speed-dialing code. When prompted for a forward number, a DIOR caller may dial the DIOR speed-dialing service code and the corresponding 1- to 3-digit speed-dialing code to complete the call to the desired service provider. This capability allows both the automated DIOR customer and an operator assisted DIOR customer to complete calls with an abbreviated digit string. For more information on DIOR Speed Dialing see Division 2, Section 4B26.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.9

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SPEED DIALING CODE

Description: This field specifies the speed-dialing code which can be dialed instead of the telephone number.

Required Field.

Valid Entries: 1 - 999

2.3 # TELEPHONE NUMBER

Description: This field specifies the telephone number associated with the speed-dialing code number.

Required Field.

Valid Entries:

10 digits (domestic calls)

7 - 15 digits (international calls)

2.4 INTERNATIONAL

Is this telephone number an international number?

Required Field.

(diorsd)

5ESS Switch

—

OFFICE DATA ADMINISTRATION

(5484)

OSPS DIOR SPEED DIALING

*1. SPEED DIALING CODE ____
#2. TELEPHONE NUMBER _____
3. INTERNATIONAL N

Figure 1 SAMPLE DIORSD FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CM: 5485 RECORD OSPS FTS NRA COUNTRY CODE EXCEPTIONS - FTSCC

1. GENERAL

The 5485 Record is available with 5E8 and later Software Releases. The OSPS FTS NRA Country Code Exceptions form assigns the forward number country code that identifies those FTS NRA (Federal Telecommunications System Network Remote Access) calls that must be routed over the FTS NRA PNI (Private Network Interface).

This form supports the OSPS FTS-2000 NRA feature. For more information on the FTS-2000 NRA feature, see Division 2, Sections 4A85.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.78.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * COUNTRY CODE

Description: Enter a forward number country code that identifies FTS NRA calls that must be routed over the FTS NRA PNI.

Required Field.

Valid Entries: 1 - 999

ftsc	5ESS Switch	—
(5485)	OFFICE DATA ADMINISTRATION	
	OSPS FTS NRA COUNTRY CODE EXCEPTIONS	
*1. COUNTRY CODE ____		

Figure 1 SAMPLE FTSCC FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CN: 5486 RECORD OSPS FTS NRA DOMESTIC EXCEPTIONS - FTSNANP

1. GENERAL

The 5486 Record is available with 5E8 and later Software Releases. The OSPS FTS NRA NPA-NXX Exceptions form assigns the forward number NPAs or NPA-NXXs that identify those FTS NRA (Federal Telecommunications System Network Remote Access) calls that must be routed over the public network. This form supports the OSPS FTS-2000 NRA feature. For more information on this secured feature see Division 2, Section 4A85.

The range of the field NPA was expanded in 5E9(1) and later to support the Interchangeable NPAs feature. For more information on this feature see Division 2, Section 3E, *OSPS 5ESS Switch Enhancements*.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.77.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 NPA

Description: Enter a forward NPA code that identifies FTS NRA calls that must be routed over the public network.

Valid Entries: 3-digits

For 5E8: 200 - 919 middle digit 0 - 1

For 5E9(1) and later: 200 - 999

2.3 NXX

Description: Enter a forward NXX office code that identifies FTS NRA calls that must be routed over the public network.

Valid Entries: 200 to 999

ftsnanp	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5486)	OSPS FTS NRA DOMESTIC EXCEPTIONS	

*1. NPA ____

(*) 2. NXX ____

Figure 1 SAMPLE FTSNANP FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CO: 5487 RECORD OSPS FTS NRA 700-NXX CODES - FTSNXX

1. GENERAL

The 5487 Record is available with 5E8 and later Software Releases and supports the OSPS FTS-2000 (Federal Telecommunications System) NRA (Network Remote Access) secured feature. This form assigns the 700-NXX forward number codes that indicate a potential FTS NRA call.

For more information on the FTS-2000 NRA feature, see Division 2, Section 4A86.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.75.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * NXX

Description: Enter the NXX (office code) portion of a 700 forward number that indicates a potential FTS NRA call.

Required Field.

Valid Entries: 200 - 999

ftsnxx	5ESS Switch	—
(5487)	OFFICE DATA ADMINISTRATION	
	OSPS FTS NRA 700-NXX CODES	

*1. NXX ____

Figure 1 SAMPLE FTSNXX FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CP: 5488 RECORD OSPS FTS NRA ROUTING NUMBERS - FTSRN

1. GENERAL

The 5488 Record is available with 5E8 and later Software Releases. The OSPS FTS NRA Routing Numbers form assigns the 10-digit routing numbers used to route FTS NRA (Federal Telecommunications System Network Remote Access) calls to the FTS NRA PNI (Private Network Interface). It also assigns the 10-digit FTS NRA attendant forward number.

This form supports the OSPS FTS-2000 NRA feature. For more information on this feature see Division 2, Section 4A85.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.76.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * ROUTING NUMBER

Description: Enter the routing number that is used to route FTS NRA calls to the FTS NRA PNI. This field is also used to specify the FTS NRA attendant forward number.

Required Field.

Valid Entries: 10-digit routing number.

2.3 ATTENDANT

Description: Is this number is used to complete an FTS NRA call to an FTS NRA attendant?

Required Field.

Default: N

Valid Entries: Y, N

ftsrn	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5488)	OSPS FTS NRA ROUTING NUMBERS	

*1. ROUTING NUMBER _____
2. ATTENDANT N

Figure 1 SAMPLE FTSRN FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 4CW: 5496 RECORD DIOR EIGHT HUNDRED OFFICE CODE TO SM MAPPING - DEHOCSM

1. GENERAL

The 5496 Record is available with the 5E9(1) and later Software Releases. The DIOR Eight-Hundred Office Code-to-SM form specifies the SM (Switching Module) on which the billing treatment data is stored for DIOR (Direct International ORiginations) Toll Free International 800 Services. For more information on this feature, see Division 2, Section 3K, *Direct International Originating Features*.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.84

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INWATS NPA

Description: Enter the NPA of an INWATS (Inward Wide Area Telecommunications Service) number. The INWATS NPA key field was added to support the exhaustion of 800 numbers, to allow other NPAs to be assigned as INWATS (Inward Wide Area Telecommunications Service) NPAs. This field supports the 800 Toll Free Services NPA Expansion feature. This feature is a secured feature with an SFID of 405. For more information on provisioning this feature, see Division 2, Section 4A405.

Software Release: 5E10 and later.

Required Field.

Valid Entries: 100 - 999

Data Rules:

For each DEHOCSM form entered, there must be a corresponding INWNPA form with a matching INWATS NPA entry.

2.3 * OFFICE CODE

Description: Enter the office code (NXX) of the INWATS number.

Required Field.

Valid Entries: 200 - 999

2.4 * FEATURE

Description: Enter the DIOR feature that is using this particular OFFICE CODE-to-SM mapping to store its data. The FEATURE field was added to support the DIOR Network Remote Access feature. For more information on this feature, see Division 2, Section 3K on provisioning DIOR features.

Software Release: 5E9(2) and later.

Required Field.

Valid Entries:

Valid FEATURE Entries	
Entry	Definition
TF8	DIOR Toll-free 800 feature.
NRA	DIOR Network Remote Access feature.

2.5 # SM

Description: The SM field is used to specify the switching module where the billing treatment data is to be stored for the international leg of a DIOR (Direct International Originations) call to an 800 number with the office code entered in the OFFICE CODE field.

Required Field.

Valid Entries: 1 - 192

Data Rules:

For 5E10 and later, each SM entry must be defined on an EQIM form.

ESS 5496(5/96)TG-5		DIOR EIGHT HUNDRED OFFICE CODE TO SM MAPPING		DATE _____
DEHOCSM		5ESS SWITCH		
27.84				
BASE _____	CONT GR _____	5ESS UNIT _____	PAGE _____	

INW	OFFICE	FEA	SM	REMARKS
ATS		TUR		
NPA	COD	E		
	E			

Figure 1 SAMPLE 5496 RECORD

```

                                5ESS Swtich      _
dehocsm                        OFFICE DATA ADMINISTRATION
(5496)                         DIOR EIGHT HUNDRED OFFICE CODE TO SM MAPPING

*1. OFFICE CODE  _____
#2. SM           _____

```

Figure 2 SAMPLE DEHOCSM FORM 5E9(1) SOFTWARE RELEASE

```

                                5ESS Swtich      _
dehocsm                        OFFICE DATA ADMINISTRATION
(5496)                         DIOR EIGHT HUNDRED OFFICE CODE TO SM MAPPING

*1. INWATS NPA   800
*2. OFFICE CODE  _____
*3. FEATURE      _____
#4. SM           _____

```

Figure 3 SAMPLE DEHOCSM FORM 5E9(2) SOFTWARE RELEASE

5ESS Swtich —
dehocsm OFFICE DATA ADMINISTRATION
(5496) DIOR EIGHT HUNDRED OFFICE CODE TO SM MAPPING

*1. OFFICE CODE ____
*2. FEATURE ____
#3. SM ____

Figure 4 SAMPLE DEHOCSM FORM 5E10 AND LATER SOFTWARE RELEASES

**SEC. 4CX: 5498 RECORD
- CICPHR****1. GENERAL**

The 5498 Record is available for 5E9(1) and later. This form maps the Carrier Identification Code to an Announcement Phrase Identification Code for the carrier. Refer to the PHRASE form (5534 Record) for a description of Phrase IDs.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.66.

2. FORM AND RECORD ENTRIES**2.1 * CARRIER ID**

Description: Enter the Carrier Identification Code.

Required Field.

Valid Entries: 0 - 9999

2.2 # PHRASE ID

Description: Enter the Phrase Identification Code.

Required Field.

Valid PHRASE ID Entries	
1 - 16383, 16385 - 16389, or 16500 - 32767	5E9(2) and earlier. See Division 3, Sec. 5AH for a description of PHRASE IDs.
1 - 16383 or 16600 - 65530	5E10 and later. See Division 3, Sec. 5AH for a description of PHRASE IDs.

Data Rules:

When a PHRASE ID is entered, there must be an associated PHRASE form where APPLICATION is "OSPSTA" and the PHRASE ID on the PHRASE form matches the PHRASE ID on the CICPHR form.

cicphr	5ESS Switch
	OFFICE DATA ADMINISTRATION
(5498)	OSPS CARRIER BRANDING PHRASE

*1. CARRIER _____
#2. PHRASE ID _____

Figure 1 SAMPLE MEASDSIG FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 4CY: 5499 RECORD OSPS MEASUREMENTS DESIGNATION FOR 800 ACCESS CALLS - MEASDSIG

1. GENERAL

The 5499 Record is available for 5E9(2) and later. This form specifies information for measurement indexes and their corresponding labels.

This form was added to support phase 2 of the 800 Access Using FGD Signaling feature. Phase 2 of this feature replaces the existing 800 Access Using FGD Signaling feature measurements (i.e., attempts and messages for AATOS (Alternate Access to Operator System) and AATLSOS (Alternate Access to Language Specific Operator System) calls) with a measurement array.

The measurement array is defined by the Measurement Label Data. Each entry in the Measurement Label Data contains the following:

- a label assigned to an index,
- the number of call Attempts for 800 access calls assigned to that index in the 1+800 Service designation Table, and
- the number of messages (billable calls) for 800 access calls assigned to that index in the 1+800 Service Designation Table.

This form allows the operating company personnel to populate indexes and labels for the Measurement Array Data. Indexes must be assigned in sequential order from 1 to 100. The labels shall be alphanumeric and shall be able to range from 1 - 7 characters including blanks.

1.1 Recent Change View

The corresponding Recent Change view for this form is 27.71

For Recent Change, deletes can only be performed on the last (highest) index populated in the view. This feature modifies OSPS RC/V view 27.70 by adding a new field called MEASUREMENT INDEX. After OSPS RC/V view 27.71 has been populated, Indexes can be assigned to existing 800 access numbers already defined in this view and new 800 access numbers can be added as required. For existing 800 access numbers in this view, the MEASUREMENT INDEX is "blank" and measurement peg counts are not performed until a valid index is assigned.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MEASUREMENT INDEX

Description: Enter the measurement index used to specify 800 Access calls which have an associated label displayed along with measurements on the 30-minute traffic report.

Required Field.

Valid Entries: 1 - 100

2.3 # LABEL

Description: Enter the label associated with the measurement index. Enter up to 7 alphanumeric characters, including spaces.

Required Field.

Valid Entries: 7 characters

Data Rules:

LABEL cannot consist of all spaces.

```
measdsig      5ESS Switch      _
(5499)         OFFICE DATA ADMINISTRATION
               OSPS MEASUREMENTS DESIGNATION FOR 800 ACCESS CALLS

*1. MEASUREMENT INDEX ____
#2. LABEL           _____
```

Figure 1 SAMPLE MEASDSIG FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 4CZ: 6400 RECORD DIOR NETWORK REMOTE ACCESS PROVISIONING - DNRA

1. GENERAL

The 6400 Record is available for 5E9(2) and later Software Releases. This form specifies the countries to which DIOR (Direct International Originations) calls to NRA INWATS (Network Remote Access Inward Wide Area Telecommunications Service) numbers are allowed or are denied completion. This view was added to support the DIOR Network Remote Access feature. For more information on this feature, see Division 2, Section 3K on provisioning DIOR features.

Each OFFICE CODE must be assigned to an SM on the DEHOCSM (DIOR Eight Hundred Office Code to SM Mapping) form (5496 Record). Each entry in the CAC field of the Exception List must be defined as an NRA CC or as an IDDD CAC on the CCNAME (OSPS Country Number to Country Name Mapping) form (5463 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.87.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INWATS NPA

Description: Enter the NPA of the INWATS (toll-free) number that subscribes to the NRA feature. For 5E9(2) only, the only entry allowed for this field was 800.

Required Field.

Default: 800

Valid Entries: 100 - 999

2.3 * OFFICE CODE

Description: Enter the office code of an INWATS (toll-free) number that subscribes to the NRA feature.

Required Field.

Valid Entries: 200 - 999

Data Rules:

For each DNRA form entered, there must be a corresponding DEHOCSM form where OFFICE CODE and INWATS NPA on the DNRA form matches the OFFICE CODE and INWATS NPA on the DEHOCSM form and FEATURE on the DEHOCSM form is set to "NRA".

The same OFFICE CODE/LINE NUMBER combination cannot be entered on both the DEHNP form and the DNRA form, e.g. the same toll-free number cannot be used for the DIOR Toll-Free 800 feature and the DIOR NRA feature. (See Division 2, Section 3K for more information on the DIOR Toll-Free feature.)

2.4 * LINE NUMBER

Description: Enter the line number of the INWATS number that subscribes to the NRA feature.

Required Field.

Valid Entries: 0000 - 9999

Data Rules:

See the data rule for OFFICE CODE.

2.5 # ROUTING NUMBER

Description: Enter the 7-digit routing number for routing calls to the Network that subscribes to the NRA feature.

Required Field.

Valid Entries: 7 digits (0 - 9)

2.6 #5 DEFAULT TRMT

Description: Are calls allowed or denied for this NRA number from any country code that is not specified in the CAC field of the NRA EXCEPTION LIST below?

Required Field.

Valid DEFAULT TRMT Entries	
Entry	Definition
A	Allowed
D	Denied

NRA EXCEPTION LIST (EXCEPTIONLIST)

The following field in the Country Code Exception List consists of the IDDD CAC (International Direct Distance Dialing Country Access Codes) or NRA CC (Network Remote Access Country Codes) that do not receive the default Network Remote Access number treatment.

2.7 CAC

Description: Enter the IDDD CAC or NRA CC that should be treated differently from the treatment specified in the DEFAULT TRMT field.

Valid Entries: 1 - 999

Data Rules:

CAC entries must be unique.

CAC cannot be 0.

This country access code must be defined using the IDDD CAC field or the NRA CC field on the CCNAME (5463 Record, View 27.81).

dnra OFFICE DATA ADMINISTRATION
(6400) DIOR NETWORK REMOTE ACCESS PROVISIONING

*1. INWATS NPA 800 #4. ROUTING NUMBER _____
 *2. OFFICE CODE _____ #5. DEFAULT TRMT _____
 *3. LINE NUMBER _____

6. NRA EXCEPTION LIST (EXCEPTIONLIST)

ROW	CAC	ROW	CAC	ROW	CAC	ROW	CAC
1	_____	7	_____	13	_____	19	_____
2	_____	8	_____	14	_____	20	_____
3	_____	9	_____	15	_____	21	_____
4	_____	10	_____	16	_____	22	_____
5	_____	11	_____	17	_____	23	_____
6	_____	12	_____	18	_____	24	_____

SCREEN 2 OF 4 5ESS Switch
 dnra OFFICE DATA ADMINISTRATION
 (6400) DIOR NETWORK REMOTE ACCESS PROVISIONING

6. NRA EXCEPTION LIST (EXCEPTIONLIST)

ROW	CAC	ROW	CAC	ROW	CAC	ROW	CAC
25	_____	35	_____	45	_____	55	_____
26	_____	36	_____	46	_____	56	_____
27	_____	37	_____	47	_____	57	_____
28	_____	38	_____	48	_____	58	_____
29	_____	39	_____	49	_____	59	_____
30	_____	40	_____	50	_____	60	_____
31	_____	41	_____	51	_____	61	_____
32	_____	42	_____	52	_____	62	_____
33	_____	43	_____	53	_____	63	_____
34	_____	44	_____	54	_____	64	_____

SCREEN 3 OF 4 5ESS Switch
 dnra OFFICE DATA ADMINISTRATION
 (6400) DIOR NETWORK REMOTE ACCESS PROVISIONING

6. NRA EXCEPTION LIST (EXCEPTIONLIST)

ROW	CAC	ROW	CAC	ROW	CAC	ROW	CAC
65	_____	75	_____	85	_____	95	_____
66	_____	76	_____	86	_____	96	_____
67	_____	77	_____	87	_____	97	_____
68	_____	78	_____	88	_____	98	_____
69	_____	79	_____	89	_____	99	_____
70	_____	80	_____	90	_____	100	_____
71	_____	81	_____	91	_____	101	_____
72	_____	82	_____	92	_____	102	_____

73 _____
74 _____

83 _____
84 _____

93 _____
94 _____

103 _____
104 _____

SCREEN 4 OF 4
dnra
(6400)

5ESS Switch —
OFFICE DATA ADMINISTRATION
DIOR NETWORK REMOTE ACCESS PROVISIONING

6. NRA EXCEPTION LIST (EXCEPTIONLIST)

ROW	CAC
105	_____
106	_____
107	_____
108	_____
109	_____
110	_____

ROW	CAC
111	_____
112	_____
113	_____
114	_____
115	_____
116	_____

ROW	CAC
117	_____
118	_____
119	_____
120	_____
121	_____
122	_____

ROW	CAC
123	_____
124	_____
125	_____
126	_____
127	_____
128	_____

Figure 1 SAMPLE DNRA FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 4DD: 6404 RECORD INWATS NPA DEFINITION - INWNPA

1. GENERAL

The 6404 Record is available with 5E10 and later Software Releases. The INWATS NPA DEFINITION form is used to provision NPAs (other than 800) as INWATS (Inward Wide Area Telecommunications Service) NPAs to allow more INWATS NPA after the exhaustion of 800 numbers. This form supports the Toll-Free NPA Expansion feature. For more information on this feature, see Division 2, Section 4A405.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.72

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * INWATS NPA

Description: Enter an NPA to be used as an INWATS Toll-Free NPA.

Required Field.

Valid Entries: 100 - 999

inwnpa	5ESS Switch	—
(6404)	OFFICE DATA ADMINISTRATION	
	INWATS NPA DEFINITION	

*1. INWATS NPA ____

Figure 1 SAMPLE INWNPA FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4DE: 6406 RECORD CUSTOMIZED HANDLING BY CARD PRODUCT TYPE - CHBCPT

1. GENERAL

The 6406 Record is available with the 5E9(2) Software Release. It is used to define parameters for specific card product types in the Card Product Type table. This form supports the PLBQ (Purchase Limits Balance Quotation) Business/Residential Card feature. For more information on this feature, see Division 2, Section 4A400.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CARD PRODUCT TYPE

Description: Enter the card product type which will be used to define the parameters in the Card Product Type table.

Required Field.

Valid Entries: 0 - 255

BALANCE QUOTATION CONTENT

The following fields (Section 2.3 - Section 2.5) define the balance quotation content.

2.3 ANNC MONETARY BAL

Description: Should the monetary amount of the remaining balance be included in the balance quotation?

Required Field.

Default: N

Valid Entries: Y, N

2.4 ANNC TIME BAL

Description: Should the allowed time that the specific call can last for the given monetary balance be included in the balance quotation?

Required Field.

Default: N

Valid Entries: Y, N

2.5 CUSTOM ANNC HDR

Description: Description: Enter the Announcement HEADER ID for the customized announcement to be given

with the balance quotation. The CUSTOM ANNC HDR field is used to indicate that this announcement may be given as part of, or instead of, the balance quotation.

Data Rules:

If CUSTOM ANNC HDR is entered, there must be a corresponding ANNHD form with HEADER ID equal to the CUSTOM ANNC HDR entry, and with APPLICATION set to "OSPSTA".

2.6 RECORD BILLING

Description: Should AMA Module 917 be appended for the recording of credit that has been used?

Required Field.

Default: N

Valid Entries: Y, N

2.7 WARNING ANNC HDR

Description: Enter the HEADER ID for the announcement to be given instead of the standard disconnect warning announcement. The WARNING ANNC HDR field is used to indicate which customized announcement should be given instead of the standard disconnect warning announcement.

Valid Entries: 271 - 300

Data Rules:

If WARNING ANNC HDR is entered, there must be a corresponding ANNHD form with HEADER ID equal to the WARNING ANNC HDR entry, and with APPLICATION set to "OSPSTA".

2.8 CARD RSTRCT HNDLG

Description: Enter the type of card restriction that should be used on a specific card product type. The CARD RSTRCT HNDLG field was added to support the ATCO (Automated TCS/CPS Override) feature. For more information on this feature, see Division 2, Section 4A409.

Software Release: 5E10 and later.

Required Field.

Default: VERIFY

Valid Entries:

Valid CARD RSTRCT HNDLG Entries	
Entry	Definition
ALLOW	Verification is not needed. Restriction can be automatically overridden.
OTHBLG	Verification is not needed. Restriction cannot be overridden - use other billing.
VERIFY	Verification with the ICVC (International Card Verification Center) should proceed.

```

                                5ESS Switch      _
chbcpt                        OFFICE DATA ADMINISTRATION
(6406)                        CUSTOMIZED HANDLING BY CARD PRODUCT TYPE

```

*1. CARD PRODUCT TYPE ____

BALANCE QUOTATION CONTENT

2. ANNC MONETARY BAL N

3. ANNC TIME BAL N
4. CUSTOM ANNC HDR _____

5. RECORD BILLING N
6. WARNING ANNC HDR _____
7. CARD RSTRCT HNDLG VERIFY

Figure 1 SAMPLE CHBCPT FORM 5E9(2) SOFTWARE RELEASE

 5ESS Switch —
chbcpt OFFICE DATA ADMINISTRATION
(6406) CUSTOMIZED HANDLING BY CARD PRODUCT TYPE

*1. CARD PRODUCT TYPE ____

 BALANCE QUOTATION CONTENT
2. ANNC MONETARY BAL N
3. ANNC TIME BAL N
4. CUSTOM ANNC HDR _____

5. RECORD BILLING N
6. WARNING ANNC HDR _____

Figure 2 SAMPLE CHBCPT FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4DF: 6407 RECORD INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN - IDIFLOW

1. GENERAL

The 6407 Record is available with the 5E10 and later Software Releases. It is used by the the OSPS auto-reconfiguration process to set up serving team data for a scheduled interflow activation/ deactivation. An auto-reconfiguration pattern ID (which is recent changeable only on View 21.16) and interflow activation/ deactivation pattern data. A pattern has data that will be acted upon at some time in the future as specified by the time (data) in the pattern. Patterns contain data on a serving team basis. The data consists of the next scheduled interflow status (on or off) of a serving team and the destination where calls for the serving team will be interflowed. This form can only be entered for retrofits.

1.1 Recent Change View

There is no corresponding Recent Change View for this form. However, the PATTERN ID and automatic reconfiguration time and day are entered on the 21.16. There is no ODA input form equivalent for view 21.16.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PATTERN ID

Description: Enter the pattern ID that is entered on RC View 21.16. The Pattern ID identifies specific OSPS automatic reconfiguration time data in the OSPS database.

Required Field.

Valid Entries: 1 - 84

Data Rules:

A corresponding PATTERN ID must be entered on the RC View 21.16 prior to retrofit, or this PATTERN ID cannot be entered.

DESTINATION

The following fields (Section 2.3 - Section 2.7) list the interflow data for a serving team.

2.3 SERVING TEAM

Description: Enter the serving team that has been assigned the PATTERN ID.

Valid Entries: 1 - 128

Data Rules:

SERVING TEAM numbers for which INTERFLOW or REROUTE are entered must also be entered on the STINFO form (5402 Record).

2.4 INTERFLOW

Description: Enter the interflow destination.

Valid Entries: 129 - 144

Data Rules:

If INTEFLOW or REROUTE is entered, either ACTIVATE or DEACTIVATE must be "Y".

If INTERFLOW and REROUTE are not entered:

ACTIVATE must not be entered

DEACTIVATE must not be entered

If INTERFLOW is entered, then on the corresponding STINFO form (SERVING TEAM entries match):

NON ISP ONLY must be "N"

OPER TYPE must be "TA"

If INTERFLOW is entered a corresponding entry is required in the ISERVTM field in the OSPS LIST on the INFLTADP form (5452 Record).

2.5 REROUTE

Description: Enter the Reroute destination.

Valid Entries: 1 - 16

Data Rules:

If INTEFLOW or REROUTE is entered, either ACTIVATE or DEACTIVATE must be "Y".

If INTERFLOW and REROUTE are not entered:

ACTIVATE must not be entered

DEACTIVATE must not be entered

If REROUTE is entered and OPER TYPE is "TA" on the corresponding STINFO form, then NON ISP AND TA and NON ISP ONLY must have different entries on the STINFO form, i.e., they cannot both be "Y" nor can they both be "N").

If REROUTE is entered, and OPER TYPE is "DA" on the corresponding STINFO form, then NON ISP ONLY and NON ISP AND TA must be "N" on the STINFO form.

2.6 ACTIVATE

Description: Enter the activation status.

Valid Entries: Y or blank

2.7 DEACTIVATE

Description: Enter the deactivation status.

Valid Entries: Y or blank

idiflow OFFICE DATA ADMINISTRATION
(6407) INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

*1. PATTERN ID

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
1	—	—	—	—
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—
5	—	—	—	—
6	—	—	—	—
7	—	—	—	—
8	—	—	—	—

SCREEN 2 OF 16 5ESS Switch
idiflow OFFICE DATA ADMINISTRATION
(6407) INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
9	—	—	—	—
10	—	—	—	—
11	—	—	—	—
12	—	—	—	—
13	—	—	—	—
14	—	—	—	—
15	—	—	—	—
16	—	—	—	—

SCREEN 3 OF 16 5ESS Switch
idiflow OFFICE DATA ADMINISTRATION
(6407) INTERFLOW DATA FOR AUTO-RECONFIGURATION

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
17	—	—	—	—
18	—	—	—	—
19	—	—	—	—
20	—	—	—	—
21	—	—	—	—
22	—	—	—	—
23	—	—	—	—
24	—	—	—	—

SCREEN 4 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION REROUTE	ACTIVATE	DEACTIVATE
25	—	—	—	—
26	—	—	—	—
27	—	—	—	—
28	—	—	—	—
29	—	—	—	—
30	—	—	—	—
31	—	—	—	—
32	—	—	—	—

SCREEN 5 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION REROUTE	ACTIVATE	DEACTIVATE
33	—	—	—	—
34	—	—	—	—
35	—	—	—	—
36	—	—	—	—
37	—	—	—	—
38	—	—	—	—
39	—	—	—	—
40	—	—	—	—

SCREEN 6 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION REROUTE	ACTIVATE	DEACTIVATE
41	—	—	—	—
42	—	—	—	—
43	—	—	—	—
44	—	—	—	—
45	—	—	—	—
46	—	—	—	—

47	—	—	—	—
48	—	—	—	—

SCREEN 7 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
49	—	—	—	—
50	—	—	—	—
51	—	—	—	—
52	—	—	—	—
53	—	—	—	—
54	—	—	—	—
55	—	—	—	—
56	—	—	—	—

SCREEN 8 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
57	—	—	—	—
58	—	—	—	—
59	—	—	—	—
60	—	—	—	—
61	—	—	—	—
62	—	—	—	—
63	—	—	—	—
64	—	—	—	—

SCREEN 9 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
65	—	—	—	—
66	—	—	—	—
67	—	—	—	—
68	—	—	—	—
69	—	—	—	—

70	—	—	—	—
71	—	—	—	—
72	—	—	—	—

SCREEN 10 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
73	—	—	—	—
74	—	—	—	—
75	—	—	—	—
76	—	—	—	—
77	—	—	—	—
78	—	—	—	—
79	—	—	—	—
80	—	—	—	—

SCREEN 11 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
81	—	—	—	—
82	—	—	—	—
83	—	—	—	—
84	—	—	—	—
85	—	—	—	—
86	—	—	—	—
87	—	—	—	—
88	—	—	—	—

SCREEN 12 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

		2. DESTINATION		
SERVING TEAM	INTERFLOW	REROUTE	ACTIVATE	DEACTIVATE
89	—	—	—	—
90	—	—	—	—

91	—	—	—	—
92	—	—	—	—
93	—	—	—	—
94	—	—	—	—
95	—	—	—	—
96	—	—	—	—

SCREEN 13 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
97	—	—	—	—
98	—	—	—	—
99	—	—	—	—
100	—	—	—	—
101	—	—	—	—
102	—	—	—	—
103	—	—	—	—
104	—	—	—	—

SCREEN 14 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
105	—	—	—	—
106	—	—	—	—
107	—	—	—	—
108	—	—	—	—
109	—	—	—	—
110	—	—	—	—
111	—	—	—	—
112	—	—	—	—

SCREEN 15 OF 16

5ESS Switch

idiflow

OFFICE DATA ADMINISTRATION

(6407)

INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
113	—	—	—	—

114	—	—	—	—
115	—	—	—	—
116	—	—	—	—
117	—	—	—	—
118	—	—	—	—
119	—	—	—	—
120	—	—	—	—

SCREEN 16 OF 16 5ESS Switch GFLAG —
 idiflow OFFICE DATA ADMINISTRATION
 (6407) INTERFLOW DATA FOR AUTO-RECONFIGURATION PATTERN

SERVING TEAM	INTERFLOW	2. DESTINATION		
		REROUTE	ACTIVATE	DEACTIVATE
121	—	—	—	—
122	—	—	—	—
123	—	—	—	—
124	—	—	—	—
125	—	—	—	—
126	—	—	—	—
127	—	—	—	—
128	—	—	—	—

Figure 1 SAMPLE IDIFLOW FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4DI: 6410 RECORD OSPS VMS TERMINATING NPA NXX RESTRICTIONS - VMSTPR

1. GENERAL

The VMSTPR form (6410 Record) is available with 5E10 and later Software Releases. It provides NPA, NXX and LINE number information to block call termination for VMS (Voice Messaging Service) calls. For more information, see Div. 2, Sec. 4A418.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.64.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the terminating numbering plan area code that is being blocked.

Required Field.

Valid Entries: 1 - 999

2.3 (*)NXX

Description: The NXX field is used to specify the terminating office code that is being blocked.

Required Field.

Valid Entries: 0 - 999

Data Rules:

When NXX has not been entered, LINE cannot be entered.

2.4 (*)LINE

Description: The LINE field is used to specify the terminating line number that is being blocked.

Required Field.

Valid Entries: 0 - 9999

	5ESS Switch	—
vmstpr	OFFICE DATA ADMINISTRATION	
(6410)	OSPS VMS TERMINATING NPA NXX RESTRICTIONS	

*1. NPA ___
(*) 2. NXX ___

(*) 3. LINE _____

Figure 1 SAMPLE VMSTPR FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 4DJ: 6411 RECORD OSPS LOCAL NUMBER PORTABILITY DATABASE QUERY - OLNP

1. GENERAL

The OLNP form (6411 Record) is available with 5E11 and later Software Releases. It is used to maintain the billing validation for a specified set of NXXs in an NPA. The LNP (Local Number Portability Database) or an alternate destination may be selected. All operations: insert, update, review and delete, may be performed using this form. For more information, see Division 2, Section 4A417 for the LEC offering or Section 4A419 for the AT&T offering.

1.1 Recent Change View

For this form there are two corresponding Recent Change Views. RC/V view 27.34 is for inserting and deleting LNP data while RC/V view 27.35 is used for reviewing and updating LNP data.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the numbering plan area code.

Required Field.

Valid Entries: 200 - 999

2.3 *START XXX

Description: The START XXX field is used to specify the first NXX for which local number portability information is to be viewed or changed.

Required Field.

Valid Entries: 000,100,200,300,400,500,600,700,800,900

2.4 END XXX

Description: The END XXX field is a no change field which specifies the last NXX in a range when the local number portability status of an entire range of NXX values is to be changed.

2.5 RANGE LNP

Description: Is the query destination for the START XXX to END XXX range the LNP?

Valid Entries: Y, N

Data Rules:

If RANGE LNP is entered, there should be no XXX LIST entries.

Either RANGE LNP must be entered or an entry must be made in the XXX LIST.

NXX LIST

The following fields (Section 2.6 - Section 2.7) make up the NXX LIST. The NXX LIST displays the portability status for the listed XXX values.

2.6 XXX

Description: An individual XXX value from within the START XXX to END XXX range for which the portability status is displayed.

Valid Entries: An XXX value within the range of START XXX to END XXX.

Data Rules:

XXX entries must be unique.

If XXX is entered, then LNPD must be entered.

2.7 LNPD

Description: Should a query be sent to the LNPD for number portability?

Valid Entries: Y, N

Data Rules:

If LNPD is entered, then XXX must be entered.

```

SCREEN 1 OF 4                                5ESS Switch
olnpu                                OFFICE DATA ADMINISTRATION
(6411)                                OSPS LOCAL NUMBER PORTABILITY DATABASE QUERY

```

```

*1. NPA      ____
*2. START XXX ____
    END XXX   ____
4. RANGE LNPD _

```

```

                                5. NXX LIST
ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD
1  ____ _    6  ____ _    11 ____ _    16 ____ _    21 ____ _    26 ____ _
2  ____ _    7  ____ _    12 ____ _    17 ____ _    22 ____ _    27 ____ _
3  ____ _    8  ____ _    13 ____ _    18 ____ _    23 ____ _    28 ____ _
4  ____ _    9  ____ _    14 ____ _    19 ____ _    24 ____ _    29 ____ _
5  ____ _   10  ____ _    15 ____ _    20 ____ _    25 ____ _    30 ____ _

```

```

SCREEN 2 OF 4                                5ESS Switch
olnpu                                OFFICE DATA ADMINISTRATION
(6411)                                OSPS LOCAL NUMBER PORTABILITY DATABASE QUERY

```

```

                                5. NXX LIST
ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD ROW XXX LNPD

```

31	___	-	36	___	-	41	___	-	46	___	-	51	___	-	56	___	-
32	___	-	37	___	-	42	___	-	47	___	-	52	___	-	57	___	-
33	___	-	38	___	-	43	___	-	48	___	-	53	___	-	58	___	-
34	___	-	39	___	-	44	___	-	49	___	-	54	___	-	59	___	-
35	___	-	40	___	-	45	___	-	50	___	-	55	___	-	60	___	-

SCREEN 3 OF 4

5ESS Switch

olnpu

OFFICE DATA ADMINISTRATION

(6411)

OSPS LOCAL NUMBER PORTABILITY DATABASE QUERY

5. NXX LIST

ROW	XXX	LNPD	ROW	XXX	LNPD	ROW	XXX	LNPD	ROW	XXX	LNPD	ROW	XXX	LNPD
61	___	-	66	___	-	71	___	-	76	___	-	81	___	-
62	___	-	67	___	-	72	___	-	77	___	-	82	___	-
63	___	-	68	___	-	73	___	-	78	___	-	83	___	-
64	___	-	69	___	-	74	___	-	79	___	-	84	___	-
65	___	-	70	___	-	75	___	-	80	___	-	85	___	-

SCREEN 4 OF 4

5ESS Switch

olnpu

OFFICE DATA ADMINISTRATION

(6411)

OSPS LOCAL NUMBER PORTABILITY DATABASE QUERY

5. NXX LIST

ROW	XXX	LNPD	ROW	XXX	LNPD
91	___	-	96	___	-
92	___	-	97	___	-
93	___	-	98	___	-
94	___	-	99	___	-
95	___	-	100	___	-

Figure 1 SAMPLE OLNPU FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4DK: 6412 RECORD OSPS DACC TREATMENT TABLE

1. GENERAL

The 6412 Record is available with 5E10 and later Software Releases. The OSPS DACC Treatment Table defines enhanced treatment for CICADA call completion

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.88.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *DEST NBR

Description: Destination Number. This field is used to specify a 3, 7, or 10-digit destination number for DA call completion. Enter a 3-digit number of the form N11 (where N is 2 - 9), or enter a 7 or 10 digit number.

Required Field.

2.3 DA TYPE

Description: Directory Assistance Type. This field specifies an indicator to be associated with the destination number. This value is mapped to a value included in the AMA record made for a DA call completion call.

Valid Entries: 1 - 20, or blank

2.4 DACC ALLOW

Description: Is DA call completion allowed? This field specifies whether or not the calls to DEST NBR are eligible for CICADA call completion.

Required Field.

Default: Y

Valid Entries: Y,N

For 5E12 and later, when DACC ALLOW is "N", DA TYPE must not be entered.

2.5 HEADER ID

Description: Announcement Header ID. This field specifies the announcement HEADER ID for the CICADA announcement for DEST NBR.

Valid Entries: 1 - 131071

2.6 LSCC REDIRECT

Description: Is LSCC with SS7 Redirect feature treatment activated for the associated DA destination number? This field specifies whether or not LSCC (Listing Services Call Completion) with SS7 Redirect feature

treatment is active for the associated DA (Directory Assistance) destination number.

Required Field.

Default: N

Valid Entries: Y, N

2.7 LIST LIMIT ENF

Description: Should an error message be displayed to the OSPS-LS operator on calls to the associated DA destination number? Listing Services Limit Display Indicator. This field specifies whether or not to display an error message to the OSPS-LS operator on calls to the associated DA destination number. This parameter is exemplified by the OSPS-LS only on a 4ESS originated call.

Required Field.

Default: N

Valid Entries: Y, N

2.8 DIOR DACC ALLOW

Description: Is DA Call Completion allowed for DIOR originated calls? This field specifies whether or not the DA Call Completion feature is allowed for DIOR originated calls. The DIOR DACC ALLOW field was added to support the Listing Services - International DA (Directory Assistance) feature. For more information on this feature, see Division 2, Section 4A324.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

For 5E12 and later, when DIOR DACC ALLOW is "Y", DACC ALLOW must be "Y".

2.9 PL CARD ALLOW

Description: Is DA Call Completion allowed for a valid Purchase Limits card? This field specifies whether or not a DA call should be allowed for a valid Purchase Limits card. The PL CARD ALLOW field was added to support the Listing Services - International DA feature. For more information on this feature, see Division 2, Section 4A324.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

2.10 RTRS INTL IND

Description: Should the RTRS international call indicator be set? This field determines how RTRS should handle the rate quotation query. The RTRS INTL IND field was added to support the Listing Services - International DA feature. For more information on this feature, see Division 2, Section 4A324.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

2.11 APS 00- DA

Description: Activate the Automated Position System 00- DA Measurement parameter. This field is used to determine whether or not the OSPS-TA should peg the new measurements for AP-handled calls.

Required Field.

Default: N

Valid Entries: Y, N

2.12 LS MEASUREMENT

Description: Activate the Listing Services Measurement parameter? This field is used to determine whether or not OSPS-LS should peg the new measurements.

Required Field.

Default: N

Valid Entries: Y, N

dacctr	5ESS Switch	—
(6412)	OFFICE DATA ADMINISTRATION	
	OSPS DACC TREATMENT TABLE	

*1. DEST NBR	_____
2. DA TYPE	___
3. DACC ALLOW	Y
4. HEADER ID	_____
5. LSCC REDIRECT	N
6. LIST LIMIT ENF	N
7. DIOR DACC ALLOW	N
8. PL CARD ALLOW	N
9. RTRS INTL IND	N
10. APS 00- DA	N
11. LS MEASUREMENT	N

Figure 1 SAMPLE DACTRT FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 4DY: 6424 RECORD OSPS FEATURE PARAMETERS - FTPARM

1. GENERAL

The 6424 Record is available with 5E10 and later Software Releases. The OSPS Feature Parameters provides the capability for specifying, updating, and/or verifying OSPS feature options.

This view is an extension of the OSPSOPT form (5424 Record, RC View 8.9). New feature parameters will be added to this form, unless a specific parameter needs to be added to an already existing feature group on the OSPSOPT form. The OFFICE ID must be defined for the OSPSOPT form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.41. The RC View 8.41 has one restriction on the use of the view. No more than 40 parameters should be changed in a single update activity. Single updates of more than 40 parameters may not be completed successfully. However, the integrity of the office data in the database is maintained in all situations.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * OFFICE ID

Description: Enter the office identification. This may be the common language office name.

Valid Entries: 1 - 8 characters

Data Rules:

When the FTPARM form is entered, the OSPSOPT form must also be entered and the OFFICE ID values must match.

AUTOMATED TCS/CPS OVERRIDE (ATCO)

The following fields (Section 2.3 - Section 2.12) define the parameters for ATCO (Automation of TCS/CPS Override) feature. For more information on this secured feature, see Division 2, Section 4A409.

2.3 DIOR TO INTL DEST

Description: Is the ATCO feature activated for DIOR originations that terminate to international destinations?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the following must be entered:

CALL SETUP TIMER

CALLER SPLIT TIMER

FINAL DISP TIMER

ICVC TOLL-FREE NBR and must not be 0
INTERACTION TIMER
POST WARNING TIMER

2.4 DIOR TO DOM DEST

Description: Is the ATCO feature activated for DIOR originations that terminate to domestic destinations?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the following must be entered:

CALL SETUP TIMER
CALLER SPLIT TIMER
FINAL DISP TIMER
ICVC TOLL-FREE NBR must not be 0
INTERACTION TIMER
POST WARNING TIMER

2.5 NO DIOR TO INTL DEST

Description: Is the ATCO feature activated for non-DIOR originations that terminate to international destinations?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the following must be entered:

CALL SETUP TIMER
CALLER SPLIT TIMER
FINAL DISP TIMER
ICVC TOLL-FREE NBR and must not be 0
INTERACTION TIMER
POST WARNING TIMER

2.6 NO DIOR TO DOM DEST

Description: Is ATCO feature activated for non-DIOR originations that terminate to domestic destinations?

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the following must be entered:

CALL SETUP TIMER
CALLER SPLIT TIMER
FINAL DISP TIMER
ICVC TOLL-FREE NBR and must not be 0

INTERACTION TIMER
POST WARNING TIMER

2.7 CALL SETUP TIMER

Description: Enter the timer threshold, in seconds, from the time the OSPS routes the call to the ICVC (International Card Verification Center) until the ICVC returns answer supervision (or network "busy" or "block" is received). A timeout (timer threshold is exceeded) indicates a problem with the routing and results in the call being sent to an OSPS operator queue.

Valid Entries: 1 - 60 (seconds)

2.8 CALLER SPLIT TIMER

Description: Enter the maximum time, in seconds, from the time the caller is "split" (unable to hear conversation), until the caller is "unsplit" so that they hear an announcement or interact with the ICVC attendant or an OSPS operator. A timeout (maximum time is exceeded) indicates the caller has been "split" for too long during ATCO processing, which results in a warning announcement/tone being played to the ICVC attendant.

Valid Entries: 2 - 180 (seconds)

Data Rules:

CALLER SPLIT TIMER must be greater than CALL SETUP TIMER.

2.9 INTERACTION TIMER

Description: Enter the sanity timer for monitoring the length of the verification conversation. This field specifies the duration threshold, in seconds, for which the ICVC attendant must provide a final call disposition after the verification conversation has begun (i.e., the caller was "unsplit"). A timeout (sanity timer is expired) results in a warning announcement/tone being played.

Valid Entries: 1 - 1800 (seconds)

2.10 POST WARNING TIMER

Description: Enter the timer specifying the amount of time the ICVC attendant has to signal a call status to the OSPS after a warning announcement has been given (either due to a Caller Split or Caller Interact timing). A timeout results in the call being sent to an OSPS operator queue.

Valid Entries: 1 - 30 (seconds)

2.11 FINAL DISP TIMER

Description: Enter the timer specifying the amount of time the ICVC attendant has to signal a call status to the OSPS after the caller has been "split" via the # key. A timeout results in the call being sent to an OSPS operator queue.

Valid Entries: 1 - 10 (seconds)

2.12 ICVC TOLL-FREE NUMBER

Description: Enter the 10-digit Toll-Free routing number from the office to the ICVC. If 0 is entered, it indicates no data.

Default: 0

Valid Entries: 10-digit number

2.13 WIRELESS AP HANDLING

Description: Can CCS7 Signaled Wireless calls be routed to an AP (Automated Position)? This field supports the CCS7 Incoming Signaling From 4ESS for Wireless Service Providers feature.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

INTERCEPT SCREENING

The following fields (Section 2.14 - Section 2.16) define parameters for the CAS International Intercept feature. For more information on this feature see Division 2, Section 4A420.

2.14 INTRCPT DIOR

Description: Is CAS intercept screening for DIOR originations offered by this switch?

Software Release: 5E10 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.15 INTRCPT NDIOR

Description: Is CAS intercept screening for non-DIOR originations offered by this switch?

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

2.16 CRD RESTR TYP

Description: Is the quotation of the card restriction type in ATCO announcements and operator displays offered by this switch?

Software Release: 5E10 and later

Required Field.

Default: N

Valid Entries: Y, N

CARD VERIFICATION

2.17 VER ROUTING NBR

Description: This field specifies a 10-digit external routing number to be used by the OSPS (Operator Services Position System) when a caller has selected a commercial credit card as the method of call billing.

Software Release: 5E14 and later

Valid Entries: 10-digit number (8XXXXXXXXX where X = 0 - 9)

The first digit for this field must be 8.

AATLSOS - AAP

The following fields (Section 2.18 - Section 2.22) define the parameters that support the AATLSOS - AAP (Alternate Access to Language Specific Operator Services - Automatic Access Prompting) using CPDL (Call Processing Data Link) Interface feature. See Division 2 Section 4A412 for more information on this feature.

2.18 COMP CALL TIMER

Description: Enter the AATLSOS Automated Access Prompting ACCS completion call timer value in seconds in 10 second increments. This is the timeout value after which, the OSPS recognizes that the NRP (Network Resource Platform) has gone off hook on the external ARU (Audio Response Unit) trunk.

Software Release: 5E10 and later

Required Field.

Default: 900 (seconds)

Valid Entries: 10 - 1800 (increments of 10 seconds)

2.19 ACCS FWD NBR TIMER

Description: Enter the AATLSOS AAP ACCS (Automated Calling Card Service) forward number timer in tenths of a second. The ACCS FWD NBR TIMER field specifies the interdigit timeout value (time waiting for another entered digit), after the 10th digit if an NANP (North American Number Plan) number is dialed, or after the 11th digit, if a 0 or 1 is dialed prior to the NANP number until normal call processing continues.

Software Release: 5E10 and later

Required Field.

Default: 50 (5 seconds)

Valid Entries: 0 - 80 (0 - 8 seconds)

2.20 ACCS CARD NBR TIMER

Description: Enter the time in tenths of a second before a time occurs after the "#" is entered after the forward number.

Software Release: 5E10 and later

Required Field.

Default: 20

Valid Entries: 0 - 80 (0 - 8 seconds)

2.21 AATOS TREATMENT

Description: Enter the type of treatment the AATOS call will receive.

Software Release: 5E10 and later

Required Field.

Default: OPR

Valid Entries:

Valid AATOS TREATMENT Entries	
Entry	Definition
ANN	The AATOS call will receive a played announcement

OPR	The AATOS call will be sent to the operator.

2.22 FOCUS LOAD SM

Description: Enter the SM number for the AATLSOS Automated Access Prompting SM for 1-800-CALLATT calls using CPDL interface. This SM has a CPDL link and a vendor of NRP.

Software Release: 5E10 and later.

Required Field.

Default: 0

Valid Entries: 0 - 192

LOCAL NUMBER PORTABILITY (LNP)

The following fields (Section 2.23 - Section 2.34) define parameters for the Local Number Portability for OSPS feature. For more information on this feature, see Division 2, Section 4A417.

2.23 ATT FEAT ACT

Description: Is the LNP (Local Number Portability) feature active?

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

ATT FEAT ACT and LEC FEAT ACT cannot both be set to "Y".

In order to set the ATT FEAT ACT field to "Y", the Local Number Portability feature must first be purchased by the office by setting the ACT field for either SFID 288 or SFID 419 to "Y" on the SFSYS form.

2.24 LEC FEAT ACT

Description: Is the LEC (Local Exchange Carrier) LPN feature activated?

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

ATT FEAT ACT and LEC FEAT ACT cannot both be set to "Y".

In order to set the LEC FEAT ACT field to "Y", the Local Number Portability feature must first be purchased by the office by setting the ACT field for SFID 417 to "Y" on the SFSYS form.

2.25 ATT QRY TRANS

Description: Enter the unique Query Translation Type for LNP TCAP queries.

Software Release: 5E11 and later.

Required Field.
Default: 0
Valid Entries: 0 - 255

2.26 AIN TRIGGER NBR

Description: Enter the AIN trigger number used for OSPS AIN (Advanced Intelligent Network) LNP queries.

Software Release: 5E11 and later.
Required Field.
Default: 0
Valid Entries: 0 - 255

2.27 ATT QRY TIMEOUT

Description: Enter the LNP Query Timeout Parameter in seconds for LNP queries.

Software Release: 5E11 and later.
Required Field.
Default: 2
Valid Entries: 1 - 8 (seconds)

2.28 ATT QRY ALM THR

Description: Enter the LNP Query Alarm Threshold, which is the percent of LNP query successes in 1/4 hour below which LNP failure alarm will be activated.

Software Release: 5E11 and later.
Required Field.
Default: 15 (%)
Valid Entries: 0 - 100 (%)

2.29 ATT MIN THR

Description: Enter Minimum Threshold for LNP queries, which is the minimum threshold for LNP Software Alarm Calculations.

Software Release: 5E11 and later.
Required Field.
Default: 1
Valid Entries: 1 - 64

2.30 TLN CARD NBR

Description: Are the LNP Queries sent on TLN (Telephone Line Number) based 10+4 card numbers?

Software Release: 5E11 and later.
Required Field.
Default: N
Valid Entries: Y, N

2.31 THRD NBR CALLS

Description: Enter whether LNP queries sent on all third number calls at billing validation time or at routing time.

Software Release: 5E11 and later.

Required Field.

Default: BILL

Valid Entries:

Valid THRD NBR CALLS Entries	
Entry	Definition
BILL	Billing validation time
ROUT	Routing time

2.32 LRN IN OTRS

Description: Is the LRN (Location Routing Number) included in the OTR (Operator Trouble Reports)?

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.33 LRN ASSERTS

Description: Is the LRN included in Asserts?

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.34 DIGITS LIDB QRY

Description: Enter the number of digits to be included in the address of a LIDB query.

Software Release: 5E11 and later.

Required Field.

Default: 6

Valid Entries: 6 or 10

2.35 FLEX ACD FEAT ACT

Description: This field specifies whether the OSPS Flexible ACD Call Type Determination feature is active.

Software Release: 5E13 and later.

Required Field.

Default: N

Valid Entries: Y,N

2.36 MAX CTD LEVELS

Description: This field specifies the maximum number of call type determination levels allowed on a call that receives OSPS Flexible Call Type Determination feature treatment.

Software Release: 5E13 and later.
Required Field.
Default: 4
Valid Entries: 4 - 7

LISTING SERVICES

2.37 INTL DA TA ACT

Description: Activate the TA portion of the International Directory Assistance TA feature? This field specifies whether or not the TA portion of International DACC (Directory Assistance Call Completion) is active. The INTL DA TA ACT field was added to support the Listing Services - International DA (Directory Assistance) feature. For more information on this feature, see Division 2, Section 4A324.

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E12 and later, when INTL DA TA ACT is "Y":

TA NATL DA must be "Y"

the ACT field on the SFSYS form (5713-1 Record) for SFID 324 must be set to "Y"

2.38 INTL DA LS ACT

Description: Activate the LS portion of the International Directory Assistance TA feature? This field specifies whether or not the LS portion of International DACC is active. The INTL DA LS ACT field was added to support the Listing Services - International DA feature. For more information on this feature, see Division 2, Section 4A324.

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E12 and later, when INTL DA LS ACT is "Y":

LS NATL DA must be "Y"

the ACT field on the SFSYS form (5713-1 Record) for SFID 324 must be set to "Y"

*1. OFFICE ID _____

LIST OF FEATURE OPTIONS AND THEIR SCREEN NUMBERS

AATLSOS AAP CPDL	3	IBNS BLOCK CONDITIONS	5
AMA RECORDING	5	INTERCEPT SCREENING	2
ASCQ	4	LISTING SERVICES	6
ATCO	2	LNP	3
CDR CHRGING RECS	4	LSCC SS7 REDIRECT	4
CICADA R3	3	OLNS	5
DIALECT	4	RATE ANNOUNCEMENT	3
DIOR TOLL FREE NBRS	5	WIRELESS CALL IND	5

SCREEN 2 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AUTOMATED TCS/CPS OVERRIDE (ATCO)

INTERCEPT SCREENING

2. DIOR TO INTL DEST	N	7. CALLER SPLIT TIMER	___	12. INTRCPT DIOR	N
3. DIOR TO DOM DEST	N	8. INTERACTION TIMER	___	13. INTRCPT NDIOR	N
4. NO DIOR TO INTL DEST	N	9. POST WARNING TIMER	___	14. CRD RESTR TYP	N
5. NO DIOR TO DOM DEST	N	10. FINAL DISP TIMER	___		
6. CALL SETUP TIMER	___	11. ICVC TOLL-FREE NUMBER	0		

15. WIRELESS AP HANDLING N

16. AMA REC ANI II LNG TRM N

17. DIOR CCC FEAT ACT N

18. PEEL OUT CC FEAT ACT N

SCREEN 3 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AATLSOS - AAP

LOCAL NUMBER PORTABILITY (LNP)

19. COMP CALL TIMER	900	26. ATT FEAT ACT	N	32. ATT MIN THR	1
20. ACCS FWD NBR TIMER	50	27. LEC FEAT ACT	N	33. TLN CARD NBR	N
21. ACCS CARD NBR TIMER	20	28. ATT QRY TRANS	0	34. THRD NBR CALLS BILL	
22. AATOS TREATMENT	OPR	29. AIN TRIGGER NBR	0	35. LRN IN OTRS	N
23. FOCUS LOAD SM	0	30. ATT QRY TIMEOUT	2	36. LRN ASSERTS	N
		31. ATT QRY ALM THR	15	37. DIGIT LIDB QRY	06
				38. ATT QRY SINGLE	N

CICADA R3

24. CICADA R3 N

25. CALL ATT DA DN _____

RATE ANNOUNCEMENT

39. RATE ANC FEAT ACT N

SCREEN 4 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6425) OSPS FEATURE PARAMETERS

DIALECT		HARRIS INTERFACE	AUTO SEQ CARD QUERIES (ASCQ)
40. DIALECT FEAT ACT	N	HARRIS FEAT ACT	N
41. LNG CODE THR	2	SWITCH ID	0
42. LNG MENU THR	2	WPROGRESS TIMER	1
		RELEASE TIMER	1
LSCC SS7 REDIRECT		ROUTE CLASS	0
43. TA NATL DA	N	HARRIS AC CODE	0
44. LS NATL DA	N		
45. OSPS TA ACT	N	CDR CHRGING RECS	
46. OSPS LS ACT	N	54. CDR FEAT ACT	N
47. RTRS DA QRY	N	55. AMA FEAT ACT	N
		56. ASCQ FEAT ACT	N
		57. CARD TRANS TYPE	000
		58. CARD GROUP ID	_____
		59. CARD INDET REPLY	D
		60. CARD QRY TIMEOUT	2
		61. OVERRIDE CIID	N
		62. CARD ISSUER LABEL	_____

SCREEN 5 OF 6 5ESS Switch
ftp parm OFFICE DATA ADMINISTRATION
(6424) OSPS FEATURE PARAMETERS

IBNS CALL BLOCKING		WIRELESS CALL IND	DIOR PERS TOLL FREE NBRS
63. IBNS CALL BLOCK ACT	N	71. PHASE 1 ACT	N
64. PUBLIC PHONE	N	72. PHASE 2 ACT	N
65. CUST REQ NO COLLECT	N		
66. NO COLLECT	N	AMA RECORDING	
67. REJECT INTERLATA	N	73. ANI II REL2	N
68. OTHER COLLECT DENY	N	74. DA LISTING	N
69. INDETERM DENY	N		
70. CARRIER DENY	N		
		OLNS	
		78. ACTIVATE OLNS	N
		79. ALARM THRESHOLD	95
		80. MINIMUM QUERY	40

SCREEN 6 OF 6 5ESS Switch
ftp parm OFFICE DATA ADMINISTRATION
(6424) OSPS FEATURE PARAMETERS

LISTING SERVICES

81. CUST RECONN LIMIT	31
82. INTL DA TA ACT	N
83. INTL DA LS ACT	N
84. TA SVC MEASMT ACT	N
85. LS SVC MEASMT ACT	N

Figure 1 SAMPLE FTPARM FORM 5E12 SOFTWARE RELEASE

SCREEN 1 OF 6 5ESS Switch
ftp parm OFFICE DATA ADMINISTRATION
(6424) OSPS FEATURE PARAMETERS (ALSO SEE OSPSOFT FORM)

*1. OFFICE ID _____

LIST OF FEATURE OPTIONS AND THEIR SCREEN NUMBERS

AATLSOS AAP CPDL	3	IBNS BLOCK CONDITIONS	5
AMA RECORDING	5	INTERCEPT SCREENING	2
ASCQ	4	LISTING SERVICES	6
ATCO	2	LNP	3
CDR CHRGING RECS	4	LSCC SS7 REDIRECT	4
CICADA R3	3	OLNS	5
DIALECT	4	RATE ANNOUNCEMENT	3
DIOR PERS TOLL FREE NBRS	5	WIRELESS CALL IND	5
FLEXIBLE ACD	5		

SCREEN 2 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AUTOMATED TCS/CPS OVERRIDE (ATCO)

INTERCEPT SCREENING

2. DIOR TO INTL DEST	N	7. CALLER SPLIT TIMER	___	12. INTRCPT DIOR	N
3. DIOR TO DOM DEST	N	8. INTERACTION TIMER	___	13. INTRCPT NDIOR	N
4. NO DIOR TO INTL DEST	N	9. POST WARNING TIMER	___	14. CRD RESTR TYP	N
5. NO DIOR TO DOM DEST	N	10. FINAL DISP TIMER	___		
6. CALL SETUP TIMER	___	11. ICVC TOLL-FREE NUMBER	0		

15. WIRELESS AP HANDLING N

16. AMA REC ANI II LNG TRM N

17. DIOR CC FEAT ACT N

18. PEEL OUT FEAT ACT N

SCREEN 3 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AATLSOS - AAP

LOCAL NUMBER PORTABILITY (LNP)

19. COMP CALL TIMER	900	26. ATT FEAT ACT	N	32. ATT MIN THR	1
20. ACCS FWD NBR TIMER	50	27. LEC FEAT ACT	N	33. TLN CARD NBR	N
21. ACCS CARD NBR TIMER	20	28. ATT QRY TRANS	0	34. THRD NBR CALLS	BILL
22. AATOS TREATMENT	OPR	29. AIN TRIGGER NBR	0	35. LRN IN OTRS	N
23. FOCUS LOAD SM	0	30. ATT QRY TIMEOUT	2	36. LRN ASSERTS	N
		31. ATT QRY ALM THR	15	37. DIGITS LIDB QRY	06
				38. ATT QRY SINGLE	N

CICADA R2

24. CICADA R2 N

25. CALL ATT DA DN _____ RATE ANNOUNCEMENT

39. RATE ANC FEAT ACT N

40. REL 3 FEAT ACT N

SCREEN 4 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6425)

OSPS FEATURE PARAMETERS

DIALECT		AUTO SEQ CARD QUERIES (ASCQ)	
41. DIALECT FEAT ACT	N	49. ASCQ FEAT ACT	N
42. LNG CODE THR	2	50. CARD TRANS TYPE	000
43. LNG MENU THR	2	51. CARD GROUP ID	_____
		52. CARD INDET REPLY	D
LSCC SS7 REDIRECT		53. CARD QRY TIMEOUT	2
44. TA NATL DA	N	54. OVERRIDE CIID	N
45. LS NATL DA	N	55. CARD ISSUER LABEL	_____
46. OSPS TA ACT	N		
47. OSPS LS ACT	N	CDR CHRGING RECS	
48. RTRS DA QRY	N	56. CDR FEAT ACT	N
		57. AMA FEAT ACT	N

SCREEN 5 OF 6

ftparm

(6424)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS FEATURE PARAMETERS

IBNS BLOCK CONDITIONS		WIRELESS CALL IND	FLEXIBLE ACD
58. IBNS CALL BLOCK ACT	N	66. PHASE 1 ACT	N
59. PUBLIC PHONE	N	67. PHASE 2 ACT	N
60. CUST REQ NO COLLECT	N		
61. NO COLLECT	N	AMA RECORDING	ORIG LINE NBR SCRN
62. REJECT INTERLATA	N	68. ANI II REL2	N
63. OTHER COLLECT DENY	N	69. DA LISTING	N
64. INDETERM DENY	N		
65. CARRIER DENY	N	DIOR PERS TOLL FREE NBRS	
		70. PTF FEAT ACT	N
		71. PTF DEST INDEX	_____
		72. PTF ROUTE INDEX	_____
		73. FLEX ACD FEAT ACT	N
		74. MAX CTD LEVELS	4
		75. ACTIVATE OLNS	N
		76. ALARM THRESHOLD	95
		77. MINIMUM QUERY	40

SCREEN 6 OF 6

ftparm

(6424)

5ESS Switch

OFFICE DATA ADMINISTRATION

OSPS FEATURE PARAMETERS

LISTING SERVICES

78. CUST RECONN LIMIT 31

79. INTL DA TA ACT N

80. INTL DA LS ACT N

81. TA SVC MEASMT ACT N

82. LS SVC MEASMT ACT N

Figure 2 SAMPLE FTPARM FORM 5E13 SOFTWARE RELEASE

SCREEN 1 OF 6

ftparm

5ESS Switch

OFFICE DATA ADMINISTRATION

(6424) OSPS FEATURE PARAMETERS (ALSO SEE OSPSOPT FORM)

*1. OFFICE ID _____

LIST OF FEATURE OPTIONS AND THEIR SCREEN NUMBERS

AATLSOS AAP CPDL	3	IBNS BLOCK CONDITIONS	5
AMA RECORDING	5	INTERCEPT SCREENING	2
ASCQ	4	LISTING SERVICES	6
ATCO	2	LNP	3
CDR CHRGING RECS	4	LSCC SS7 REDIRECT	4
CICADA R3	3	OLNS	5
DIALECT	4	RATE ANNOUNCEMENT	3
DIOR PERS TOLL FREE NBRS	5	WIRELESS CALL IND	5
FLEXIBLE ACD	5		

SCREEN 2 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AUTOMATED TCS/CPS OVERRIDE (ATCO)

INTERCEPT SCREENING

2. DIOR TO INTL DEST	N	7. CALLER SPLIT TIMER	___	12. INTRCPT DIOR	N
3. DIOR TO DOM DEST	N	8. INTERACTION TIMER	___	13. INTRCPT NDIOR	N
4. NO DIOR TO INTL DEST	N	9. POST WARNING TIMER	___	14. CRD RESTR TYP	N
5. NO DIOR TO DOM DEST	N	10. FINAL DISP TIMER	___		
6. CALL SETUP TIMER	___	11. ICVC TOLL-FREE NUMBER	0		

15. WIRELESS AP HANDLING N

CARD VERIFICATION

16. AMA REC ANI II LNG TRM N

19. VER ROUTING NBR _____

17. DIOR CC FEAT ACT N

18. PEEL OUT FEAT ACT N

SCREEN 3 OF 6

5ESS Switch

ftparm

OFFICE DATA ADMINISTRATION

(6424)

OSPS FEATURE PARAMETERS

AATLSOS - AAP

LOCAL NUMBER PORTABILITY (LNP)

20. COMP CALL TIMER	900	27. ATT FEAT ACT	N	33. ATT MIN THR	1
21. ACCS FWD NBR TIMER	50	28. LEC FEAT ACT	N	34. TLN CARD NBR	N
22. ACCS CARD NBR TIMER	20	29. ATT QRY TRANS	0	35. THRD NBR CALLS	BILL
23. AATOS TREATMENT	OPR	30. AIN TRIGGER NBR	0	36. LRN IN OTRS	N
24. FOCUS LOAD SM	0	31. ATT QRY TIMEOUT	2	37. LRN ASSERTS	N
		32. ATT QRY ALM THR	15	38. DIGITS LIDB QRY	06
				39. ATT QRY SINGLE	N

CICADA R2

25. CICADA R2 N

26. CALL ATT DA DN _____

RATE ANNOUNCEMENT

40. RATE ANC FEAT ACT N

41. REL 3 FEAT ACT N

SCREEN 4 OF 6
ftparm
(6425)

5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS FEATURE PARAMETERS

DIALECT		AUTO SEQ CARD QUERIES (ASCQ)	
42. DIALECT FEAT ACT	N	50. ASCQ FEAT ACT	N
43. LNG CODE THR	2	51. CARD TRANS TYPE	000
44. LNG MENU THR	2	52. CARD GROUP ID	_____
		53. CARD INDET REPLY	D
LSCC SS7 REDIRECT		54. CARD QRY TIMEOUT	2
45. TA NATL DA	N	55. OVERRIDE CIID	N
46. LS NATL DA	N	56. CARD ISSUER LABEL	_____
47. OSPS TA ACT	N		
48. OSPS LS ACT	N	CDR CHRGING RECS	
49. RTRS DA QRY	N	57. CDR FEAT ACT	N
		58. AMA FEAT ACT	N

SCREEN 5 OF 6
ftparm
(6424)

5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS FEATURE PARAMETERS

IBNS BLOCK CONDITIONS		WIRELESS CALL IND		FLEXIBLE ACD	
59. IBNS CALL BLOCK ACT	N	67. PHASE 1 ACT	N	74. FLEX ACD FEAT ACT	N
60. PUBLIC PHONE	N	68. PHASE 2 ACT	N	75. MAX CTD LEVELS	4
61. CUST REQ NO COLLECT	N				
62. NO COLLECT	N	AMA RECORDING		ORIG LINE NBR SCR	N
63. REJECT INTERLATA	N	69. ANI II REL2	N	76. ACTIVATE OLNS	95
64. OTHER COLLECT DENY	N	70. DA LISTING	N	77. ALARM THRESHOLD	40
65. INDETERM DENY	N			78. MINIMUM QUERY	
66. CARRIER DENY	N	DIOR PERS TOLL FREE NBRS			
		71. PTF FEAT ACT	N		
		72. PTF DEST INDEX	_____		
		73. PTF ROUTE INDEX	_____		

SCREEN 6 OF 6
ftparm
(6424)

5ESS Switch
OFFICE DATA ADMINISTRATION
OSPS FEATURE PARAMETERS

LISTING SERVICES		ANSI INCOMING SS7 SIG	
79. CUST RECONN LIMIT	31	84. CALL PARTY IND	N
80. INTL DA TA ACT	N		
81. INTL DA LS ACT	N		
82. TA SVC MEASMT ACT	N		
83. LS SVC MEASMT ACT	N		

Figure 3 SAMPLE FTPARM FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 4EG: 6434 RECORD OSPS FLEXIBLE ACD CALL TYPE DETERMINATION - FLEXACD

1. GENERAL

The 6434 Record is available with the 5E13 and later Software Releases. It provides the ability to specify OSPS call queues based upon various call characteristic parameters. This form supports the Flexible ACD (Automatic Call Distributor) Call Type Determination feature. For more information on this feature, see Division 2, Section 4a450.

1.1 Recent Change View

The corresponding Recent Change View for this form is 26.8.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PRE CALL ID

Description: This field specifies the Pre Call ID value that serves as a key to the flexible ACD call type determination process.

Required Field.

Valid Entries: 1 - 127

Data Rules:

Each PRE CALL ID value defined on this form must be entered on at least one ACDCTP form.

2.3 * CALL PROPERTY

Description: These fields identify the call property type and value used in flexible ACD call type determination.

The CALL PROPERTY field actually consists of 2 fields - Call Property Type (CPTYPE) and Call Property Value (CPVALUE).

Required Field.

Valid Entries: 1 - 10 alpha-numeric characters

Valid CALL PROPERTY (CPTYPE) Entries	
Entry	Definition
AN	Access Number
AO	Account Owner
CIC	Carrier Identification Code
DCIC	DIOR Carrier
DEST	Destination Index
II	ANI II Digits
LC	Language Code
LRN	Originating Location Routing Number
NPA	Originating NPA-NXX
OLS	Originating Line Screening Code
TGRP	Incoming Trunk Group Number

Data Rules:

For 5E13 and later:

- When CALL PROPERTY is "AN", CALL PROPERTY.CPVALUE must be either a 7-digit number, where each digit is 0 - 9, or a 10-digit number of the form 8XXNXXXXXX where N=2 - 9 and X=0 - 9.
- When CALL PROPERTY.CPTYPE is greater than 128, then DISPLAYINDEX must be unknown.
- When CALL PROPERTY.CPTYPE is "AO", CALL PROPERTY.CPVALUE must be 4 alpha-numeric characters.
- When CALL PROPERTY.CPTYPE is "CIC", CALL PROPERTY.CPVALUE must be 0 - 9999 or LEC.
- When CALL PROPERTY.CPTYPE is "DCIC", CALL PROPERTY.CPVALUE must be of the form XXXX, where X=0 - 9.
- When CALL PROPERTY.CPTYPE is "DEST", CALL PROPERTY.CPVALUE must be 1 - 4095.
- When CALL PROPERTY.CPTYPE is "II", CALL PROPERTY.CPVALUE must be 00 - 99.
- When CALL PROPERTY.CPTYPE is "LC", CALL PROPERTY.CPVALUE must be 0 - 1000.
- When CALL PROPERTY.CPTYPE is "LRN", CALL PROPERTY.CPVALUE must be of the form NXXXXX, where N=1 - 9 and X=0 - 9.
- When CALL PROPERTY.CPTYPE is "NPA", CALL PROPERTY.CPVALUE must be of the form NXXXXX, where N=1 - 9 and X=0 - 9.
- When CALL PROPERTY.CPTYPE is "OLS", CALL PROPERTY.CPVALUE must be 0 - 999.
- When CALL PROPERTY.CPTYPE is "TGRP", CALL PROPERTY.CPVALUE must be 1 - 4000.

2.4 # CALL TYPE

Description: This field identifies the OSPS Call Type or Service ID selected during the flexible ACD call type determination.

Required Field.

Valid Entries: 1 - 1023

2.5 DISPLAY INDEX

Description: This field specifies the operator position display index.

Valid Entries: 1 - 276

Data Rules:

When DISPLAY INDEX is entered, an associated OBSTS form must be found with matching DISPLAY INDEX.

2.6 APOS CALL TYPE

Description: This field specifies the call type used to direct calls to automated positions.

Valid Entries: 1 - 128

Data Rules:

When APOS CALL TYPE is entered, the FLEXACD form must have a corresponding OSPSCT form with APOS CALL TYPE equal to OSPS CALL TYPE. Additionally, the matching OSPSCT form must have OPR TYPE set to "TA".

2.7 ACD EXPRESSION

Description: This field defines the overriding call property expression to be used for flexible ACD call type determination.

Valid Entries: A, C, D, G, I, L, N, O, Q, S, T, |, &, or blank

Valid ACD EXPRESSION Entries	
Entry	Definition
A	ACCT Owner
C	Carr ID
D	Dest Index
G	Lang Code
I	ANI II
L	LRN
N	NPA-NXX
O	OLS Code
Q	Quit
R	DIOR Carrier
S	Access Number
T	Trk Grp
or &	Special Cases (e.g., T D O&I)
blank	

Data Rules:

For 5E13 and later:

- Unless the CALL ORIGIN is "CDSU", "SPCL700", or "ICS", each FLEXACD form must have a corresponding OSPSCT form with OSPS CALL TYPE equal to CALL TYPE. Additionally, the matching OSPSCT form must have OPER TYPE set to "TA".
- When APOS CALL TYPE is entered on a FLEXACD form, the FLEXACD form must have a corresponding ACDCTP form where the CALL ORIGIN of the corresponding ACDCTP form is not "AIS", "CDSU", "SPCL700" or "ICS".
- When APOS CALL TYPE is entered on a FLEXACD form, and the FLEXACD form has a corresponding ACDCTP form where the CALL ORIGIN of the corresponding ACDCTP form is not "AIS", "CDSU", "LSTA", "SPCL700" or "ICS", there must be an OSPSCT form where APOS CALL TYPE on the FLEXACD form matches the OSPS CALL TYPE on the OSPSCT form. In addition, the SVC ID on the OSPSCT form must not be entered.
- When APOS CALL TYPE is entered on a FLEXACD form and the matching ACDCTP form has a CALL ORIGIN of "LSTA", the AP call queue can be a Listing Services call, but only if SFID 415 ACT is set to "Y". This is a secured feature which must be purchased.
- There must be a corresponding OSPSCT form such that OSPS CALL TYPE on the OSPSCT form matches CALL TYPE on the FLEXACD form, and this OSPSCT form must have SVC ID entered.
- There must be a corresponding OSPSCT form such that OSPS CALL TYPE on the OSPSCT form

matches CALL TYPE on the FLEXACD form, and this OSPSCT form must not have SVC ID entered.

- A SERVDATA form must be found where CALL TYPE on the FLEXACD form matches the SVC ID on the SERVDATA form. The OSPS SVC CODE on this SERVDATA form must be "AAP".
- A SERVDATA form must be found where CALL TYPE on the FLEXACD form matches the SVC ID on the SERVDATA form. The OSPS SVC CODE on this SERVDATA form must be "INMATE".
- There must be an OSPSCT form where CALL TYPE on the FLEXACD form matches OSPS CALL TYPE on the OSPSCT form. Then SVC ID on the OSPSCT form must match the SVC ID on a SERVDATA form. Additionally, OSPS SVC CODE on the SERVDATA form must not be "INCPT", "IBMINCPT", "SPCL700" or "INMATE".
- When CALL ORIGIN on the associated ACDCTP form is "LSTA" and APOS CALL TYPE on the FLEXACD form is entered, there must also be a corresponding OSPSCT form such that OSPS CALL TYPE on the OSPSCT form matches APOS CALL TYPE on the FLEXACD form. This OSPSCT form must have SVC ID entered.
- ACD EXPRESSION cannot contain a call property type matching the call property type in CALL PROPERTY.

```

flexacd                                5ESS Switch                _
                                OFFICE DATA ADMINISTRATION
(6434)                OSPS Flexible ACD Call Type Determination

*1. PRE CALL ID      ____
*2. CALL PROPERTY    ____
#5. CALL TYPE        ____
6. DISPLAY INDEX     ____
7. APOS CALL TYPE    ____
8. ACD EXPRESSION    _____
  
```

Figure 1 SAMPLE FLEXACD FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 4EH: 6435 RECORD OSPS NPA CODE EXPANSION FOR BLV - ENHBLV

1. GENERAL

The 6435 Record is available as a 5E11 Software Update. It provides the capability for specifying the LRN (Location Routing Numbers) or NPA (Numbering Plan Area), the route code, and NXX (Office Code), or range of NXXs. This form supports the OSPS NPA Code Expansion feature. For more information on this feature, see Division 2, Section 4A449.

1.1 Recent Change View

The corresponding Recent Change View for this form is 27.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *LRN/NPA

Description: This field is used to specify the numbering plan area code.

Software Release: 5E11 and later

Required Field.

Valid Entries: 200 - 999

Data Rules:

Ten-digit numbers which are defined by NPA, NXX, BEG LINE, and optionally, END LINE on the ENHBLV form, must not be duplicated or overlapped by ten-digit numbers on another ENHBLV form.

2.3 (*) BEG NXX

Description: This field is used to specify the NXX or the first number in a range of NXXs.

Software Release: 5E11 and later

Valid Entries:

000 - 999 (for first NXX in a range)

blank (for all NXXs)

Data Rules:

When an ENHBLV form is entered, the BEG NXX field is blank, and the LRN/NPA is entered, there can be no other ENHBLV forms entered with the same LRN/NPA value. Leaving the BEG NXX blank means that all NXXs are excluded for that LRN/NPA. Therefore no other forms can be entered for that LRN/NPA.

2.4 (*) END NXX

Description: This field is used to specify the last NXX in a range of NXXs.

Software Release: 5E11 and later

Valid Entries:

001 - 999 or
blank

When END NXX is known, BEG NXX must not be greater than END NXX.

2.5 # ROUTE CODE

Description: This field specifies the routing code for the LRN or NPA.

Software Release: 5E11 and later

Required Field.

Valid Entries: 1 - 999

Data Rules:

The ROUTE CODE must be the same for all ENHBLV forms having the same LRN/NPA value.

enhblv	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(6435)	OSPS NPA CODE EXPANSION FOR BLV	
*1. LRN/NPA	_____	
(*) 2. BEG NXX	_____	
(*) 3. END NXX	_____	
#4. ROUTE CODE	_____	

Figure 1 SAMPLE ENHBLV FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 4ES: 6446 RECORD**OSPS DA CUSTOM BRANDING BY ACCOUNT OWNER - AOWNER****1. GENERAL**

The 6446 Record is available as a 5E13 Software Update. It provides DA custom branding by account owner information. This form supports the DA Custom Branding by Account Owner feature. For more information on this feature, see Division 2, Section 4A543.

1.1 Recent Change View

The corresponding Recent Change View for this form is 21.28.

2. FORM AND RECORD ENTRIES**2.1 BASE AND CONTROL, ESS UNIT**

Enter the Base and Control Number and the Office Name on each record.

2.2 *ACCOUNT OWNER

Description: This field is used to specify the account owner.

Software Release: 5E13 and later

Required Field.

Valid Entries: Four alpha-numeric characters

2.3 # HEADER ID

Description: This field specifies the Announcement Header ID number.

Software Release: 5E13 and later

Required Field.

Valid Entries: 1 - 131071

Data Rules:

When the HEADER ID is entered on any AOWNER form, there must be a corresponding ANNHD form with matching HEADER ID and the APPLICATION field set to "OSPSDA".

aowner	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(6446)	OSPS DA CUSTOM BRANDING BY ACCOUNT OWNER	
*1. ACCOUNT OWNER _____		
#2. HEADER ID _____		

Figure 1 SAMPLE AOWNER FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 5: MISCELLANEOUS FORMS

SEC. 5A: 5501 RECORD NORMALIZED OFFICE CODE ASSIGNMENT FORM - NOC

1. GENERAL

The 5501 Record is used to associate a NOC (Normalized Office Code) with each OFFICE CODE and NPA (Numbering Plan Area) code. The OFFICE CODE is commonly referred to as the "NXX" which are the 3-digits after the NPA (commonly referred to as the "area code"). In addition, this form is used to assign Routing and Charging Intercept Treatment. Each type of Intercept (Regular, Blank Number, Out-of-Service and Deny Termination) is assigned a Route Index and Charge Index per NXX.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the numbering plan area code. With 5E12, this field has been changed to a key field. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Required Field.

Software Release: 5E12 and later

Valid Entries: 200 - 999

2.3 * OFFICE CODE

Description: Enter the NXX of the office. Traditionally, office codes are of the form NXX. However, 0XX and 1XX are provided for special uses to preserve standard office code ranges. These are typically used for INWATS lines. Since 0XX and 1XX are being excluded from the LDIT, these lines can only be terminated to from an incoming trunk.

Required Field.

Valid Entries: 3 digits (of the form XXX where
X = 0 - 9)

Data Rules:

For 5E12 and later, one NOC form is required for every OFFICE CODE or NPA/OFFICE CODE combination in the office.

For 5E12 and later, if the NOC form has an OFFICE CODE value equal to that of another NOC form, the Number Portability NPA-NXX Growth feature is required. It is a secured feature which must be purchased by the office. An SFSYS form must exist with SFID 198 set to "Y".

2.4 # BASE NPA

Description: The BASE NPA field is used to display the base numbering plan area status. BASE NPA must equal "Y" for each NXX in the office. The first occurrence of an NXX in the office must have BASE NPA equal to "Y" and all others with the same NXX value must have BASE NPA equal to "N". When assigning an NXX to more than one NPA (NON-UNIQUE NXX), one of the NPAs must be designated as the BASE NPA. This would usually correspond to the NPA associated with the NXX if the NXX was previously assigned as a unique NXX. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Required Field.

Valid Entries: Y, N

Data Rules:

For 5E12 and later, only one NOC form per OFFICE CODE value may have BASE NPA set to "Y".

2.5 UNIQUE OFFCODE

Description: This is a Recent Change display-only field. The UNIQUE OFFCODE field is used to display the office code unique status.

2.6 NPA CODE

Description: Enter the Numbering Plan Area Code. NPAs are normally in the following range: N is 2-9; P is 0-1; A is 0-9.

Required Field.

Software Release: 5E11 and earlier

Valid Entries: 3 digits

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 through 5E11: 200 - 999

2.7 NOC

Description: Enter a unique Normalized Office Code Number, one per Office Code.

Required Field.

Valid Entries:

For 5E12 and later: 1 - 8190

Data Rules:

For 5E12 and later, when the NOC forms have a NOC value greater than 250, the Number Portability NPA-NXX Growth feature must be provided. It is a secured feature which must be purchased by the office. An SFSYS form must exist with SFID 198 set to "Y".

For 5E12 and later, NOCs cannot be duplicated on the NOC input form. All NOCs associated with NPA and OFFICE CODE (NXX) combinations must be unique values for the given office.

2.8 RAX

Description: Enter the Rate Area Exchange center number. This field is used to identify "rate centers" that are established by tariffs for routing and charging. It is used in association with the SCREENING INDEX and DAS (Digit Analysis Selector) fields on the LCC form (5306 Record). Note that this field is the same (functionally) as the RATE AREA field on the LCC form.

Software Release: 5E8 and later.

Default: 00 (indicates no RAX number)

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 999

Data Rules:

For 5E15 and later, if RAX is greater than 99, SFID 561 ACT on the SFSYS form (5713-1 Record) must be "Y" (see Division 2, Section 4A561).

ROUTE INDEX DATA

The following fields (Section 2.9 - Section 2.12) are used to define Route Index Data.

2.9 REG ICPT RI

Description: Enter the Route Index Number that is to be used for Regular intercept. Route Indexes 1 - 100 should be assigned to Fixed Route Types.

If the specified Route Index points to an AIS Trunk Group, the AIS normally expects to receive a prefix digit of 3 for this type of Intercept. If this is desired, 3 must be entered in PREFIX DIGITS on the RTIDX form (5303 Record).

Required Field.

Valid Entries:

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.10 BLANK NBR RI

Description: Enter the Route Index number that is to be used for Blank Number Intercept. Route Indexes 1 - 100 should be assigned to Fixed Route Types.

If the specified Route Index points to an AIS Trunk Group, the AIS normally expects to receive a prefix digit of 0 for this type of Intercept. If this is desired, 0 must be entered in PREFIX DIGITS on the RTIDX form (5303 Record).

Required Field.

Valid Entries:

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.11 OOS RI

Description: Enter the Route Index number that is to be used for Out-of-Service (trouble) Intercept. Route Indexes 1 - 100 should be assigned to Fixed Route Types.

If the specified Route Index points to an AIS Trunk Group, the AIS normally expects to receive a prefix digit of 1 for this type of Intercept. If this is desired, 1 must be entered in PREFIX DIGITS on the RTIDX form (5303 Record).

Required Field.

Valid Entries:

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.12 DENIED TERM RI

Description: Enter the Route Index number that is to be used for Deny Termination Intercept. Route Indexes 1 - 100 should be assigned to Fixed Route Types.

Required Field.

Valid Entries:

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

For 5E12 and later, the denied term intercept route index(s) defined on the NOC form, must be defined on the RTIDX form.

For 5E12 and later, the denied term intercept route index(s) defined on the NOC form, must be defined on the CGIDX form.

CHARGE INDEX DATA

The following fields (Section 2.13 - Section 2.16) are used to define Charge Index Data.

2.13 REG ICPT CI

Description: Enter the Charge Index number that is to be used for Regular Intercept.

Required Field.

Valid Entries: 1 - 2047

Data Rules:

For 5E12 and later, the regular intercept charge index(s) defined on the NOC form, must be defined on the CGIDX form.

2.14 BLANK NBR CI

Description: Enter the Charge Index number that is used for Blank Number Intercept.

Valid Entries: 1 - 2047

2.15 OOS CI

Description: Enter the Charge Index number that is to be used for Out-of-Service (trouble) Intercept.

Valid Entries: 1-2047

Data Rules:

For 5E12 and later, the out-of-service intercept charge index defined on the NOC form, must be defined on a CGIDX form.

2.16 DENIED TERM CI

Description: Enter the Charge Index number that is to be used for Deny Termination Intercept.

Required Field.

Valid Entries: 1 - 2047

Data Rules:

For 5E12 and later, the deny term intercept charge index defined on the NOC form, must be defined on the CGIDX form.

2.17 REMARKS

Description: This field may contain any entries deemed locally necessary.

Valid Entries: 16 characters

2.18 NOT CODE HOLDER

Description: Is this switch not the code holder?

Required field.

Software Release: 5E14 and later

Default: N

Valid Entries: Y, N

Data Rules:

When NOT CODE HOLDER is "Y", ACT must be "Y" for SFID 530 on the SFSYS form.

THOUSANDS GROUP STATUS

In order to use the following fields, ACT must be "Y" for SFID 530 on the SFSYS form. Refer to Section 2.19 through Section 2.28 for individual field information.

2.19 PORTED OUT 0

Description: Is the 0000 to 0999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.20 PORTED OUT 1

Description: Is the 1000 to 1999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.21 PORTED OUT 2

Description: Is the 2000 to 2999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.22 PORTED OUT 3

Description: Is the 3000 to 3999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.23 PORTED OUT 4

Description: Is the 4000 to 4999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.24 PORTED OUT 5

Description: Is the 5000 to 5999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.25 PORTED OUT 6

Description: Is the 6000 to 6999 block of telephone numbers ported out?

Valid Entries: Y, N

2.26 PORTED OUT 7

Description: Is the 7000 to 7999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.27 PORTED OUT 8

Description: Is the 8000 to 8999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

2.28 PORTED OUT 9

Description: Is the 9000 to 9999 block of telephone numbers ported out?

Default: N

Valid Entries: Y, N

```
noc                               5ESS Switch                _
(5501)                           OFFICE DATA ADMINISTRATION
                                NORMALIZED OFFICE CODE ASSIGNMENT

*1. NPA      _____
*2. OFFICE CODE _____
#5. NOC      _____
6. RAX      00

#3. BASE NPA      _
UNIQUE OFFCODE _

ROUTE INDEX DATA                CHARGE INDEX DATA
#7. REG ICPT RI  _____
#9. BLANK NBR RI  _____
#11. OOS RI      _____
#13. DENIED TERM RI _____

#8. REG ICP CI   _____
#10. BLANK NBR CI _____
#12. OOS CI      _____
#14. DENIED TERM CI _____

15. REMARKS _____
```

Figure 1 SAMPLE NOC FORM 5E12 AND 5E13 SOFTWARE RELEASES

```
noc                               5ESS Switch                _
SCREEN 1 OF 2                     OFFICE DATA ADMINISTRATION
(5501)                           NORMALIZED OFFICE CODE ASSIGNMENT

*1. NPA      _____
*2. OFFICE CODE _____
#5. NOC      _____
6. RAX      000

#3. BASE NPA      _
UNIQUE OFFCODE _

ROUTE INDEX DATA                CHARGE INDEX DATA
#7. REG ICPT RI  _____
#9. BLANK NBR RI  _____
#11. OOS RI      _____
#13. DENIED TERM RI _____

#8. REG ICP CI   _____
#10. BLANK NBR CI _____
#12. OOS CI      _____
#14. DENIED TERM CI _____

15. REMARKS _____
```

```
noc                               5ESS SWITCH                _
SCREEN 2 OF 2                     OFFICE DATA ADMINISTRATION
(5501)                           NORMALIZED OFFICE CODE ASSIGNMENT

16. NOT CODE HOLDER N
THOUSANDS GROUP STATUS
17. PORTED OUT 0 N
18. PORTED OUT 1 N
19. PORTED OUT 2 N
20. PORTED OUT 3 N
```


21. PORTED OUT 4 N
 22. PORTED OUT 5 N
 23. PORTED OUT 6 N
 24. PORTED OUT 7 N
 25. PORTED OUT 8 N
 26. PORTED OUT 9 N

Figure 2 SAMPLE NOC FORM 5E14 SOFTWARE RELEASE

noc 5ESS Switch
 SCREEN 1 OF 2 OFFICE DATA ADMINISTRATION
 (5501) NORMALIZED OFFICE CODE ASSIGNMENT

*1. NPA _____
 *2. OFFICE CODE _____ #3. BASE NPA _____
 #5. NOC _____ UNIQUE OFFCODE _____
 6. RAX 000

ROUTE INDEX DATA CHARGE INDEX DATA

#7. REG ICPT RI _____ #8. REG ICP CI _____
 #9. BLANK NBR RI _____ #10. BLANK NBR CI _____
 #11. OOS RI _____ #12. OOS CI _____
 #13. DENIED TERM RI _____ #14. DENIED TERM CI _____

15. REMARKS _____

noc 5ESS SWITCH
 SCREEN 2 OF 2 OFFICE DATA ADMINISTRATION
 (5501) NORMALIZED OFFICE CODE ASSIGNMENT

16. NOT CODE HOLDER N
 THOUSANDS GROUP STATUS

17. PORTED OUT 0 N
 18. PORTED OUT 1 N
 19. PORTED OUT 2 N
 20. PORTED OUT 3 N
 21. PORTED OUT 4 N
 22. PORTED OUT 5 N
 23. PORTED OUT 6 N
 24. PORTED OUT 7 N
 25. PORTED OUT 8 N
 26. PORTED OUT 9 N

Figure 3 SAMPLE NOC FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5B: 5502 RECORD MAIN DISTRIBUTING FRAME TEST TRUNK ASSIGNMENT FORM - MDFTA

1. GENERAL

The 5502 Record is applicable to 5E2 and later Software Releases. It is used for IMLT-2 (Integrated Mechanized Loop Testing) with a DFTAC (Distributing Frame Test Access Circuit). The MDFTA is used to define the connection between the DFTAC (Distributing Frame Test Access Circuit) and the MDF (Main Distributing Frame) TTC (Test Trunk Circuit) as well as the DFTAC LTP (Logical Test Port) and the LEN of the dedicated line from the DFTAC to an LU (Line Unit). Refer to the feature division for IMLT-2.

1.1 Recent Change View

The corresponding Recent Change view for this form is 14.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * TEST TRUNK CIRCUIT TGN

Description: Enter the Trunk Group Number of the Test Trunk Circuit connecting the DFTAC and the MDF.

Required Field.

Valid Entries: 1 - 255

Data Rules:

The TTC TGN must also be defined on the TKGRP form (5202 Record).

2.3 * TTC MEMBER NUMBER

Description: Enter the Test Trunk Circuit member number.

Required Field.

Valid Entries: 0 - 999

Data Rules:

The TTC Member Number must also be defined on the TRUNK form (5204 Record).

2.4 DFTAC IDENTIFICATION

Description: Enter the DFTAC Identification which is the DFTAC appearance on the MSU/MMSU. The DFTAC identification number must be a 7-digit number in the following format.

DFTAC IDENTIFICATION			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-48
			(CM1)
			1-192

			(CM2)
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)

Data Rules:

DFTAC IDENTIFICATIONS must match an EQMMSP or EQMSP form with PACK EQUIPMENT LIST TYPE equal to "DFTC" and PACK EQUIPMENT LIST EQST set to "O".

2.5 LOGICAL TEST PORT

Description: Enter the Logical Test Port associated with the MDF. This is the LTP with a TRKCLS of "LTPDFTAC". One LTP is required per DFTAC circuit and it must be located in the same SM as the DFTAC.

LTP (LOGICAL TEST PORT) NUMBER	
Equipment	Valid Entries
Switching Module	1 - 48
	(CM1)
	1 - 192
	(CM2)
Logical Test Port	000-255

Valid Entries: 6 digits

Data Rules:

The LTP must also be defined on the TRUNK form (5204 Record).

2.6 OE TYPE

Description: Enter the type of line.

Valid OE TYPE Entries	
Entry	Definition
C	Telephone Number is associated with an ISLU Line Card Equipment Number and NUMBER field must contain an 8-digit equipment number.
D	Telephone Number is associated with a 4-wire Digital Equipment Number and NUMBER field must contain an 8-digit DEN.
G	Software Release: 5E8 and later. Telephone Number is associated with an IDCU (Integrated Digital Carrier Unit) Equipment Number and NUMBER field must contain a 10-digit equipment number (GEN) for a remote terminal or a PUB43801. For 5E10 and later a 11 digit equipment number is required.
L	Telephone Number is associated with an analog-type Line Equipment Number and NUMBER field must contain an 8- or 10-digit LEN.
M	Software Release: 5E8 through 5E9(2). Telephone Number is associated with an IDCU (Integrated Digital Carrier Unit) Equipment Number and NUMBER field must contain an 8-digit equipment number (MEN) for a remote terminal or a PUB43801.
S	Telephone Number is associated with a SLC-96 Equipment Number and NUMBER field must contain a 7-digit SLEN.
T	Telephone Number is associated with a 4-wire analog Trunk Equipment Number and NUMBER field must contain a 7-digit TEN.

Data Rules:

For OE TYPE and NUMBER there must be a corresponding TN with matching OE TYPE and NUMBER on the LINE form (5109 Record).

The LINE form(s) associated with OE TYPE and NUMBER on MDFTA form must have the indicated fields populated on the LINE form as follows:

- BRCS must be "N"
- COIN must be "N"
- COMPL must be "N"
- DNY BV must be "N"
- DNY ROH must be "N"
- DTLBILL must be "N"
- FGA must be "N"
- FLS must be "N"
- GST must be "N"
- NO DIAL must be "N"
- PALIT must be "Y"
- PTY must be "I"
- SERHLN must not be entered
- SLUS must be "N"
- SUSO must be "Y"
- TRAFFIC must be "N"
- TSTLINE must be "N"
- TTC must be "Y"
- ICP must be "N"

The LCC form(s) that corresponds to a LINE form(s) associated with OE TYPE and NUMBER on the MDFTA form, must have the CLASS OF SERVICE of "INDIV".

DFTAC (Distributing Frame Test Access Circuit) dedicated lines can not be associated with multi-line hunt groups, they can only be assigned on the LINE form. Therefore MLHLN forms cannot have an OE TYPE and NUMBER which corresponds to an OE TYPE and NUMBER on an MDFTA form.

2.7 NUMBER

Description: Enter the equipment number. The content of this field is dependent upon the entry in the OE TYPE field as described above.

If OE TYPE is "G" for an IDCU Remote Terminal, the Equipment Number consists of:

GEN (IDCU Remote Terminal 5E9(2) and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	X	0-7
Remote Terminal	RT	XX	01-31
Line	LINE	XXXX	0001-2048

GEN (IDCU Remote Terminal 5E10 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	XX	00-42
Remote Terminal	RT	XX	01-31
Line	LINE	XXXX	0001-2048

If OE TYPE is "G" for an IDCU PUB, the Equipment Number consists of:

GEN (IDCU PUB43801 5E9(2) and earlier)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	X	0-7
DS1	DS1	XX	51-90
Line	LINE	XXXX	0001-0024

GEN (IDCU PUB43801 5E10 and later)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	XX	00-42
DS1	DS1	XX	51-90
Line	LINE	XXXX	0001-0024

If OE TYPE is "L", this is a Line Equipment Number, an 8-digit number in the following format.

LEN (LINE EQUIPMENT NUMBER)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Line Unit	LU	X	0-7
		XXX	000 - 042 (5E9(2) and later)
Concentrator	CONC	X	0-9
Switch Group	SWG	X	0-1
Switch	SW	X	0-7
Level	LEV	X	0-3

If OE TYPE is "M" for an IDCU Remote Terminal, this is a 8-digit number in the following format.

MEN (IDCU Remote Terminal)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	X	0-7
Remote Terminal	RT	XX	01-31
Line	LINE	XX	01-99

If OE TYPE is "M" for an IDCU PUB, this is an 8-digit number in the following format.

MEN (IDCU PUB43801)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Unit Number	IDCU	X	0-7
DS1	DS1	XX	51-90
Line	LINE	XX	01-24

If OE TYPE is "S", this is a SLC-96 Equipment Number, an 8-digit number in the following format.

SLC-96 EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Digital Carrier Line Unit	DCLU		0-7
Remote Terminal	RT	XX	01-32
Line	LINE	XX	01-96

If OE TYPE is "D", this is a 4-wire Digital Equipment Number, an 8-digit number in the following format.

I

DEN (DIGITAL EQUIPMENT NUMBER)

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Line Trunk Unit	DLTU	X	0-5
Digital Facility Interface	DFI	XX	01-10
Digital Channel	DCHAN	XX	01-48

If OE TYPE is "T", this is a 4-wire analog Trunk Equipment Number, a 7-digit number in the following format.

TEN (TRUNK EQUIPMENT NUMBER)

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Trunk Unit	TU	X	0-7
Service Group	SVG	X	0-1
Pack	PACK	X	0-7
Circuit	CKT	X	0-3

If OE TYPE is "C", this is an ISLU Line Card Equipment Number, 8 digits in the following format.

LINE CARD EQUIPMENT NUMBER

Equipment		Format	Valid Entries
Switching Module	SM	XXX	001-192
Line Unit	LU		0-7
Line Group Controller	LGC	XX	00-15
Line Card	LC	XX	00-31

```
mdfta          5ESS Switch          —
(5502)          OFFICE DATA ADMINISTRATION
                MAIN DISTRIBUTING FRAME TEST TRUNK ASSIGNMENT
```

```
* 1. TEST TRUNK CIRCUIT TGN 012
* 2. TTC MEMBER NUMBER      800
  3. DFTAC IDENTIFICATION    0301120
  4. LOGICAL TEST PORT       030100
  5. OE TYPE                  L
    NUMBER                     03011033
```

Figure 1 SAMPLE MDFTA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5C: 5503 RECORD PAIR GAIN TEST CONTROLLER FORM - PGTC

1. GENERAL

The 5503 Record is applicable to 5E2 and later Software Releases. It is used in offices equipped with IMLT-2 (Integrated Mechanized Loop Testing System Two) if those offices have the optional PGTC (Pair Gain Test Controller). The PGTC is the interface between the IMLT-2 and a USLC-96 (Universal SLC-96) and is only required if IMLT-2 will be used to test USLC-96. The 5503 Record will define the connections between the PGTC and the 5ESS Switch.

The IMLT-2 obtains access to the PGTC via the MTB (Metallic Test Bus). Only one PGTC test port can terminate on an MMSU (Modular Metallic Service Unit). Also, a PGTC test port must terminate on an MMSU where a DCTU (Directly Connected Test Unit) port, used for testing USLC-96 remote terminals, terminates.

The PGTC is controlled by Distribute Points in the 5ESS Switch. There are two Distribute Points and two Metallic Bus connections required for PGTC. The two Distribute Points must be assigned sequentially to the same MMSU and the same DIST (Distribute Point) circuit pack. Likewise, the two MTBs must be assigned sequentially to the same MMSU and MACC (Metallic Access Circuit) pack.

1.1 Recent Change View

The corresponding Recent Change view for this form is 14.7.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PGTC FRAME NUMBER

Description: Enter the Pair Gain Test Controller Frame Number. Only one PGTC Frame will exist at a host office and it will always be numbered one (1). Each RSM or cluster of RSMs will only have one PGTC which will be numbered as the RSM or lowest numbered RSM in the cluster.

In an office equipped with CM1 (Communications Module 1), the valid entries for SM are 1 - 48. In an office equipped with CM2, the valid entries are 1 - 192.

Required Field.

Valid Entries: 1 - 192

2.3 * PGTC TRUNK NUMBER

Description: Enter the Pair Gain Test Controller Trunk Number.

Required Field.

Valid Entries: 1 - 255

Data Rules:

Only one PGTC Test Trunk is allowed per MSU shelf in a Service Group.

2.4 # METALLIC TEST BUS

Description: Enter the low numbered MTB which is the bus wired to the input of the PGTC. MTBs for PGTC are assigned in contiguous pairs and must be on the same MACC pack; two MTBs per PGTC are required. The second MTB (wired to the PGTC output) will be assigned automatically as the next sequential MTB. The maximum value of the low numbered MTB that can be assigned is a 13 because MTB 15 is reserved for testing. Also, a minimum of one MTB assigned to the DCTU must terminate on the same MMSU service group shelf as the two MTBs assigned to the PGTC. Furthermore, for higher testing throughputs (PST), PGTC test ports must be assigned to each MMSU service group shelf where a DCTU port used for testing USLC-96 remote terminals terminates.

In an office equipped with CM1 (Communications Module 1), the valid entries for SM are 1 - 48. In an office equipped with CM2, the valid entries are 1 - 192.

Metallic Test Bus Point 15 of every MACC pack is reserved for general internal MSU and MMSU diagnostics. Protocol test or diode resistor tests are included in general internal diagnostics.

The Metallic Test Bus is assigned a 9-digit number in the following format.

MTB (METALLIC TEST BUS)			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
Bus	BUS	XX	(Modular MSU)
			00 - 14

Data Rules:

If this MTB number resides on an ORM, RSM, or TRM, the PGTC and the MTB must share the same SITE ID (assigned on the EQIM form). In addition, if this is a remote SITE ID, the MTBs must reside on the Common Resource Module (denoted by MASTER MODULE on a corresponding EQSITE form (5722 Record)). This rule does not apply to co-located ORMs/TRMs sharing resources.

2.5 # LO DISTRIBUTE POINT

Description: Enter the low PGTC Distribute Point number. This is the value of the MSU Distribute Point wired to the high valued resistor for the PGTC. The second Distribute Point will be assigned to the next sequential Distribute Point on the same Distribute pack. These Distribute Points must be in the same MSU as the MACC packs that terminate the low and high MTBs.

In an office equipped with CM1 (Communications Module 1), the valid entries for SM are 1 - 48. In an office equipped with CM2, the valid entries are 1 - 192.

The PGTC Distribute Point is a 9-digit number in the following format.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31

			(Modular MSU)
Distribute Point Number	DPN	XX	00 - 30

pgtc 5ESS Switch
(5503) OFFICE DATA ADMINISTRATION
PAIR GAIN TEST CONTROLLER

```
* 1. PGTC FRAME NUMBER          001
* 2. PGTC TRUNK NUMBER          003

3. METALLIC TEST BUS           004011102
4. LO DISTRIBUTE POINT         004011122
```

Figure 1 SAMPLE PGTC FORM 5E5 - 5E11 SOFTWARE RELEASE

pgtc 5ESS Switch
(5503) OFFICE DATA ADMINISTRATION
PAIR GAIN TEST CONTROLLER

```
* 1. PGTC FRAME NUMBER          001
* 2. PGTC TRUNK NUMBER          003

# 3. METALLIC TEST BUS         004011102
# 4. LO DISTRIBUTE POINT       004011122
```

Figure 2 SAMPLE PGTC FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5D: 5504 RECORD TONE TIME FORM - TNTYP

1. GENERAL

The TNTYP form is used to define "ROH", "REORDER", "HIGHTONE", and "BUSY" tones.

Offices must also define the DSN (Defense Switched Network) Preemption Tone, "PRMPTON", if any line or Multi-Line Hunt Line is assigned a Precedence and Preemption BRCS feature.

With 5E3 and later Software Releases, DSN (Defense Switched Network) offices must also define the DSN (Defense Switched Network) Permanent Tone, "DSNROH".

1.1 Standard Input Data

A standard set of input data is provided by the ODA system as each office is registered. If, however, it is required that the timing intervals vary from the standard, the TNTYP form may be used to specify them.

1.2 Recent Change View

The corresponding Recent Change View for this form is 8.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *TONE TYPE

Description: Enter the Type of Tone being defined.

Valid TONE TYPE Entries	
Entry	Definition
AUDIBLE	Software Release: 5E7 and later. Audible tone.
ROH	Receiver Off Hook
REORDER	120 IPM
BUSY	60 IPM
PRMPTON	DSN (Defense Switched Network) Preemption Tone. Required in all DSN (Defense Switched Network) offices and all offices in which any PP (Precedence and Preemption) feature is assigned to any line or trunk.
DSNROH	Software Release: 5E3 and later. DSN (Defense Switched Network) permanent tone. Required in all DSN offices. Only DSN offices may select this entry.
HIGHTONE	Software Release: 5E4(2) and later. Steady High Tone.
HIGH120	Software Release: 5E7 and later. 120 ipm cadenced high tone. Required in all E911 offices. If a CAMA PSAP attempts a Selective Transfer for which no TN is assigned in the caller's ESN form (5540 Record), this tone is returned to the PSAP.

Data Rules:

If a TN on a LINEFA form (5112 Record) or a MLHG/TERM combination on a MLHLNFA form (5113 Record)

are assigned a FEATURE defined on a PUOFD form (5605-1A Record) where INITIATE is set to "BSYVIFY", then a TNTYP form must be submitted with TONE TYPE set to "HIGHTONE" and TIMED? set to "N".

When TONE TYPE is "HIGH120", TIMED? must be "N".

2.3 TIMED?

Description: Is the Tone timed?

Required Field.

Valid Entries: Y, N

Data Rules:

If a "Y" is entered in this field, the duration in seconds must be entered in the HOW MANY SECONDS? field.
If an "N" is entered in this field, then an entry must not be made in the HOW MANY SECONDS? field.

2.4 HOW MANY SECONDS?

Description: If a Tone is Timed, this field must contain the duration in seconds.

Valid Entries: 0 - 255

Standard Input Data for 5E2 and 5E3		
TONE TYPE	TIMED?	HOW MANY SECONDS?
BUSY	N	
REORDER	N	
ROH	Y	045

Standard Input Data for 5E4(2) and Later		
TONE TYPE	TIMED?	HOW MANY SECONDS?
BUSY	N	
HIGHTONE	N	
REORDER	N	
ROH	Y	045

Figure 1 STANDARD INPUT DATA

```

tntyp          5ESS Switch      —
(5504)         OFFICE DATA ADMINISTRATION
                TONE TIMING

* 1. TONE TYPE      ROH
  2. TIMED?         Y
  3. HOW MANY SECONDS? 030

```

Figure 2 SAMPLE TNTYP FORM 5E2 AND LATER SOFTWARE RELEASES

SEC. 5E: 5505-1/2 RECORD AUTOMATIC TRUNK TEST TABLE FORM - AUTO

1. GENERAL

The 5505-1/2 Records are used to define the ATTTN (Automatic Trunk Test Table Numbers) and their associated test lines. It is used by both the Trunk Automatic Progression Testing program and manual testing initiated at the 5ESS Switch as a record of the outpulsing information necessary to reach certain test lines in the terminating office.

1.1 Number of Outpulsed Digits

All test numbers require the same number of digits to be outpulsed to process a normal outgoing call to each terminating office. If a terminating office is expecting five digits to be outpulsed to that office from the 5ESS Switch Outgoing Trunk Group, then five digits should be entered on the ATTTN (Automatic Trunk Test Table Number) for that Outgoing Trunk Group.

1.2 Trunk Groups Requiring ATTTN

Most two-way and outgoing Trunk Groups require an ATTTN. Refer to the Trunk Group Record in Division 3 Section 2A for Trunk Groups requiring an ATTTN. If a Trunk Group is required by ODA to have an ATTTN, but the far end office does not have test circuits, any defined ATTTN may be assigned to the Trunk Group. However, it is recommended that a "dummy" ATTTN be used and defined on this 5505 Record. The dummy ATTTN may contain any combination of data which satisfies the ODA input requirements and user standards.

If the trunk group has a TRKCLS of "TSPS" which terminates on an OSPS trunk with a TRKCLS of "FIOPR", then the test numbers entered on this form must conform to the format of 10x, 958-10x, or 959-10x, where x is an integer 1 - 9.

1.3 Test Assignments

The 5505-1/2 Records contain sixteen types of test assignments. (For more complete descriptions see AT&T Practice 781-030-100, Section 8.)

SYNCHRONOUS TEST - This test provides an automatic series of on hook/off hook flashes for each pulsing rate. After all of the series of flashes are complete, the trunk will be left in the quiet termination state.

NONSYNCHRONOUS TEST - The Nonsynchronous type is the only type required for those offices where marginal type tests cannot be applied directly to the incoming trunk circuit, as is frequently the case with Step-by-Step systems.

PERMANENT BUSY - The Number associated with this test provides a permanent busy tone when accessed.

100 TEST - This test provides far to near end loss measurements and near end noise measurements. The 100 Test Line supplies milliwatt tone for approximately 5 seconds and then applies a quiet termination to the caller until the caller hangs up.

102 TEST - This test provides far to near end loss measurements. The 102 Test Line supplies milliwatt tone for 9 seconds and then applies a quiet termination for 1 second. This 10 second sequence is repeated indefinitely until the caller hangs up.

103 TEST - This test provides for overall testing of the supervisory and signaling capabilities of intertoll trunks

equipped with rering features. The 103 Test Line is required for 5ESS Switch local/toll applications.

104 TEST - This test provides two-way loss and noise measurements on any type of trunk. The 104 Test Line seizes a trunk, outpulses digits, sends tones to the far end office, and evaluates the tones received from the far end office.

105 TEST - This test provides two-way loss and noise measurements. The 105 Test Line is used by the CAROT (Centralized Automatic Reporting on Trunks) system.

106 TEST - This test is used in conjunction with the 102 test line for loop-around or two-way transmission testing. This test will provide 10 seconds of 1004 Hz tone followed by loop-around of the T&R leads to the T1 and R1 leads until disconnect is detected on the E lead. This test is used for DSN (Defense Switched Network) offices.

INV TEST - This test provides access to the ISTF (Integrated Services Test Function) Unit to do inverted (bits are inverted on channel) Transmission Tests over a digital trunk. Available with 5E4(2) and later Software Releases.

NINV TEST - This test is similar to the INV TEST except that the bit pattern is not inverted on the channel. Available with 5E4(2) and later Software Releases.

SXS TEST - Used by an office with trunks terminating at a step-by-step office. The testing is similar to synchronous testing, consisting of on-hook/off-hook signals. Available with 5E4(2) and later Software Releases.

CTX2 TEST - A synchronous test type used by an office with trunks terminating to a Number 5 Crossbar office that is equipped with Phase II Centrex features. The test exercises the supervisory and transfer features of the trunk. Available with 5E4(2) and later Software Releases.

CTX3 TEST - A synchronous test type used by an office with trunks terminating to a Number 5 Crossbar office that is equipped with Phase III Centrex features. The test exercises the supervisory and transfer features of the trunk. Available with 5E4(2) and later Software Releases.

109 TEST - A test of the performance of an echo controller at a terminating toll office. The test is only used when there is an office, on the far end of any trunk, that is a 5ESS Switch with an RMS-D3 test device. Available with 5E4(2) and later Software Releases.

606 TEST - A digital loop-back test for digital continuity and fidelity. The test is only used when there is an office, on the far end of any trunk, that is a 5ESS Switch with an RMS-D3 test device. Available with 5E4(2) and later Software Releases.

1.4 Continuity Checks

The AUTOMATIC PROGRESSION TEST TYPE of "CONT" is available with 5E3 and later Software Releases. The continuity checks are run on a time basis over CCS trunks until continuity is restored or until they are stopped by maintenance personnel.

1.5 Recent Change View

The corresponding recent change view for this form is 14.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * AUTOMATIC TRUNK TEST TABLE NUMBER

Description: Enter the Automatic Trunk Test Table Number.

Valid Entries: 1 - 999

2.3 AUTOMATIC PROGRESSION TEST TYPE

Description: Enter the APTT (Automatic Progression Test Type).

Valid AUTOMATIC PROGRESSION TEST TYPE Entries	
Entry	Definition
102LB	Software Release: 5E9(1) and later. 102 Loopback Test
103	103 Type Test
105	Software Release: 5E9(1) and later. 105 type test
CONT	Software Release: 5E3 and later. Continuity Test
CTX2	Software Release: 5E4(2) and later. Centrex Phase II Test
CTX3	Software Release: 5E4(2) and later. Centrex Phase III Test.
INV	ISTF Inverted Loopback Test
NINV	ISTF Non-Inverted Loopback Test
NSYN	Non-Synchronous Test
PB	Permanent Busy Test
PVELBK	PHV Voice Encoding Loopback tes
SHCT	Software Release: 5E10 and later. Speech Handler trunk PCM loop back test. This enumeration supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B.
SYN	Synchronous Test
SXS	Software Release: 5E4(2) and later. Step-by-Step Test.

Data Rules:

An entry is required if any trunk group has an "N" entered in the IAPT (Inhibit Automatic Progression Table) field on the TKGRP form.

With 5E3 and later, CCS Trunks (INPUTSING/OUTPUTSING CCIS6 or ISUP7) must use an Automatic Progression Test Type of "CONT" or "PB" or blank.

"102LB" may be entered in this field only for DCS (Digital Cellular Switch) trunks where TRKCLS on the corresponding TKGRP form (5202 Record) is "CST2" or "IVTRK".

For 5E14 and earlier, when TGNs are defined on the TKGRP form (5202 Record) with TRKCLS equal to "SPCHNDLR" and the ATTTN field on this form is entered, the AUTO form must be entered and this field must be equal to "SHCT".

For 5E15 and later, when the AUTO form is entered and this field is "SHCT", any TKGRP forms which use a value of the ATTTN field on this form must have a TRKCLS field equal to "SPCHNDLR" or "CV".

DIGITS TO BE OUTPULSED

The following fields (Section 2.4 - Section 2.19) define the digits to be outpulsed.

2.4 SYNCHRONOUS TEST

Description: Enter the number to be outpulsed to access the Synchronous Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.5 NONSYNCHRONOUS TEST

Description: Enter the number to be outpulsed to access the Nonsynchronous Test Line at the far end office.

If SYNCHRONOUS TEST contains an entry and NONSYNCHRONOUS TEST is blank, ODA specifies the same number entered in SYNCHRONOUS TEST for NONSYNCHRONOUS TEST.

Valid Entries: 1 - 11 digits

2.6 PERMANENT BUSY TEST

Description: Enter the number to be outpulsed to access the Permanent Busy Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.7 100 TYPE TEST

Description: Enter the number to be outpulsed to access the 100 Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.8 102 TYPE TEST

Enter the number to be outpulsed to access the 102 Test Line at the far end office.

2.9 103 TYPE TEST

Description: Enter the number to be outpulsed to access the 103 Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.10 104 TYPE TEST

Description: Enter the number to be outpulsed to access the 104 Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.11 105 TYPE TEST

Description: Enter the number to be outpulsed to access the 105 Test Line at the far end office.

Valid Entries: 1 - 11 digits

2.12 106 TYPE TEST

Description: Enter the number to be outpulsed to access the 106 test line.

Valid Entries: 1 - 11 digits

Data Rules:

This field may be entered only for DSN (Defense Switched Network) offices, therefore, the DSN OPT field

must be set to "Y" on the OFCOPT form.

2.13 INV TYPE TEST

Description: Enter the number to be outpulsed to access an INV Test line at the far-end office where the bits in the bit stream will be inverted. Only digital trunks will be tested.

Software Release: 5E4(2) and later

Valid Entries: 1 - 11 digits

2.14 NINV TYPE TEST

Description: Enter the number to be outpulsed to access an NINV Test line at the far-end office where the bits in the bit stream are not inverted. Only digital trunks will be tested.

Software Release: 5E4(2) and later.

Valid Entries: 1 - 11 digits

2.15 SXS TYPE TEST

Description: Enter the number to be outpulsed to access the SXS Test Line.

Software Release: 5E4(2) and later

Valid Entries: 1 - 10 digits

Data Rules:

If the AUTOMATIC PROGRESSION TEST TYPE field is "SXS", then a value must be entered in the SXS TYPE TEST field.

2.16 CTX2 TYPE TEST

Description: Enter the number to be outpulsed to access the CTX2 Test Line.

Software Release: 5E4(2) and later.

Valid Entries: 1 - 10 digits

Data Rules:

If the AUTOMATIC PROGRESSION TEST TYPE field is "CTX2", then a value must be entered in the CTX2 TYPE TEST field.

2.17 CTX3 TYPE TEST

Description: Enter the number to be outpulsed to access the CTX3 Test Line.

Software Release: 5E4(2) and later.

Valid Entries: 1 - 10 digits

Data Rules:

If the AUTOMATIC PROGRESSION TEST TYPE field is "CTX3", then a value must be entered in the CTX3 TYPE TEST field.

2.18 109 TYPE TEST

Description: Enter the number to be outputted to access the 109 Test Line.

Software Release: 5E4(2) and later.

Valid Entries: 1 - 10

2.19 606 TYPE TEST

Description: Enter the number to be outputted to access the 606 Test Line.

Software Release: 5E4(2) and later.

Valid Entries: 1 - 10

auto	5ESS Switch	—
(5505)	OFFICE DATA ADMINISTRATION	
	AUTOMATIC TRUNK TEST TABLE	

*1. AUTOMATIC TRUNK TEST TABLE NUMBER 028
 2. AUTOMATIC PROGRESSION TEST TYPE CTX2

	DIGITS TO BE OUTPUTTED	
3. SYNCHRONOUS TEST	_____	11. 106 TYPE TEST _____
4. NONSYNCHRONOUS TEST	_____	12. INV TYPE TEST _____
5. PERMANENT BUSY TEST	_____	13. NINV TYPE TEST _____
6. 100 TYPE TEST	_____	14. SXS TYPE TEST _____
7. 102 TYPE TEST	_____	15. CTX2 TYPE TEST 457896
8. 103 TYPE TEST	_____	16. CTX3 TYPE TEST _____
9. 104 TYPE TEST	_____	17. 109 TYPE TEST 375104
10. 105 TYPE TEST	_____	18. 606 TYPE TEST 438241

Figure 1 SAMPLE AUTO FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 5F: 5506 RECORD AMA CALL TYPE FORM - AMACT

1. GENERAL

The 5506 Record is used to define AMA (Automatic Message Accounting) Call Types. A subset of the AMA Call Types are assigned on the CGIDX form (5302-1 Record). For an initial office, ODA builds the AMACT forms. Figures 2 - 6 describe the entries built by ODA.

The figures are a composite of all Call Types for the various Software Releases. Software Release restrictions are included under AMA CALL TYPE descriptions.

Since the AMACT entries assigned by ODA are in compliance with Standard telecommunications accounting procedures, extreme caution should be used by the switch owner if changes are considered. However, it may be necessary to change the "Special Study" and "Include Customer ID"? field since ODA defaults all Call Types to a "NO". Any other field changes on the AMACT form should be discussed with the AMA personnel.

With 5E4(2) and later, new AMA CALL TYPES have been added for the OSPS (Operator Services Position System) toll and assistance feature.

OSPS AMA records are generated at the end of a call. The determination of making an AMA record, the call type and the structure code is based on the information in the call record, i.e., it is based on what the operator and customers did during the call.

When an AMA record is to be made, a call type, which is specified in the 5506 Record, is determined for the call based on various information.

For definitions of call codes not associated with call types on this form, refer to 235-100-125 (System Descriptions).

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and office name on each record.

2.2 * AMA CALL TYPE

Description: This field is used to enter the AMA Call Type being defined. Refer to Figure 1 for valid AMA CALL TYPE entries.

2.3 DETAIL BILL

Description: Is the number dialed to be included on the AMA record?

Required Field.

Valid Entries: Y, N

2.4 TRACER TYPE

Description: This field is used for revenue purposes to describe the data sent to AMA.

The AMA personnel receive measurements from the 5ESS Switch on the number of calls per Tracer Type that were transmitted over the data link. If the AMA calls do not agree with the 5ESS Switch calls, the AMA personnel can then estimate the amount of revenue lost by using an average charge per Tracer Type (e.g., if 200 local calls were lost at an average charge of 20 cents, the estimated loss of revenue is \$40.00).

Required Field.

Valid TRACER TYPE Entries	
Entry	Definition
LOCAL	Local call, peps records output local answered or not recorded local answered.
TOLL	Toll call, peps records output toll answered or not recorded toll answered.
SPCL	Software Release: 5E4(2) and later. Special services, peps records output special answered or not recorded special.
SPECIAL	Software Release: 5E3 and earlier. Special services, peps records output special answered or not recorded special.
OPER	Operator Assisted Calls, peps records output operator answered or not recorded operator answered.
OTHER	Not toll or local, peps records output other answered or not recorded other answered.
INTERLATA	Software Release: 5E4(2) and later. InterLATA call, peps records output interLATA for answered or unanswered calls or not recorded interLATA for answered and unanswered interLATA calls.
ILATA	Software Release: 5E3 and earlier. InterLATA call, peps records output interLATA for answered or unanswered calls or not recorded interLATA for answered and unanswered interLATA calls.

AMA personnel should be consulted before changing the entries built by ODA in this field since these are Accounting Classifications not Network Facility Classifications.

2.5 INCLUDE MBI/WATS BAND ?

Description: Is the MBI (Message Billing Index) to be included on the AMA record?

Required Field.

Valid Entries: Y, N

2.6 STUDY TYPE

This field is used by the Maintenance Center. The Maintenance Center may optionally request an AMA study on abandoned calls. The criteria for an abandoned call is as follows:

- The call has been processed.
- A network connection is up.
- The terminating end is ringing.
- The originator hangs up before answer.

Normally abandoned call details are not recorded at AMA facilities. However, call details will be recorded by classification of call when a study is initiated by the Maintenance Center. The Maintenance Center may request a study on LOCAL, TOLL, ALL or SPECIAL CALL Types. When SPECIAL CALL Types are requested, only those Call Types that have a Y in the Special Study field will be studied. AMA personnel

should be consulted before changing the entries built by ODA in this field since these are Accounting Classifications not Network Facility Classifications.

These entries are totally independent of the classifications entered in the Tracer Type field.

Required Field.

Valid STUDY TYPE Entries	
Entry	Definition
LOCL	Software Release: 5E4(2) and later. Local data.
LOCAL	Software Release: 5E3 and earlier. Local data.
TOLL	Toll data.
OTHER	Other data (not local or toll).
ILATA	Software Release: 5E3 and earlier. InterLATA data.
INTERLATA	Software Release: 5E4(2) and later. InterLATA data.
OPER	Software Release: 5E4(2) and later. Operator Assisted Calls.

2.7 SPECIAL STUDY?

The Maintenance Center may optionally request an AMA study on abandoned calls. Abandoned call details are recorded at AMA facilities based on the call classification requested at the Maintenance Center. The Maintenance Center may select LOCAL, TOLL, ALL or SPECIAL Call Types. When SPECIAL is selected, only those Call Types that have a "Y" entered in this field will be studied.

Required Field.

2.8 INCLUDE CUSTOMER ID?

Description: Will the customer's identification number (a terminal group number) be included in the AMA record?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This entry may be equal to "Y" only for the following AMA Call Types: "ACCT", "CCSAS", "CFPFNA", "ETCCSA", "ETMDR", "FGDWBL", "FX", "TANTTK", "WATISB", "WATSB" or "WATSBL". For 5E6 and later, it may also be "Y" when AMA CALL TYPE is "DMRTM", "FGBOL", "FGDOL", "ISDATA", "ISDNOL", or "SP".

Valid AMA CALL TYPE Entries			
VALID ENTRY	REMARKS	SOFTWARE RELEASE	CALL CODE
ACCT	Account Code calls not normally recorded.	5E3 and later	124
ACCTX	Account Code dialed calls extended by an attendant to a CENTREX station not normally recorded.	5E3 and later	83
ACCTIE	Account code dialed calls extended by an attendant to a tie trunk.	5E3 and later	84
ATTCMC	AT&T Cellular Mobile Carrier. Used for billing when an incoming call originates on a Trunk Group with CMC equal to "Y" with 5E2 and 5E3. With 5E4(2) and later, this value is "CMC"	5E2 and 5E3	306

ATTSP	AT&T Station Paid. Used by an Interexchange Carrier switch on calls from an Equal Access End Office or Access Tandem using Equal Access Signaling or from directly connected lines.		60
AUTO	Automatic collect T&A OSPS call.		019
BLVOSPS	Busy Line Verify T&A OSPS calls.		043
CCSAS	Common Control Switching Arrangement Sampling.	5E3 and later	21
CFPFNA	Call Forwarding over Private Facilities No Answer. Used for tandem tie trunk. Same as Call Type "TANTTK" except call processing does not generate a simulated answer.		32
CMC	AT&T Cellular Mobile Carrier. Used for billing when an incoming call originates on a Trunk Group with CMC equal to Yes.	5E4(2) and later	306
CMBOT	Cellular Mobile Carrier originating calls to access tandem for Type 2B access.	5E11 and later.	63
CMCBTT	Cellular Mobile Carrier originating calls to access tandem for Type 2B access.	5E11 and later.	65
CMCOT	Cellular Mobile Carrier originating calls to access tandem for Type 2A access.	5E9(1) and 5E10.	64
CMCTT	Cellular Mobile Carrier terminating calls from access tandem for Type 2A access.	5E9(1) and 5E10.	66
CNA	Connecting Network Access.	5E11 and later	720
CRED	Subscriber credit entry AMA record.	5E4(2) and later	107
DIDSTUDY	Direct Inward Dialing Study. It is used to track PBX DID trunk calls which have not returned answer supervision after a specified time. This time limit is determined on the OFCOFT form (5509 Record). The 5ESS Switch determines that the call is connected upon receiving an "answer back" from the PBX, however, some PBX's turn off the answer back which allows incoming calls to connect without being billed. Tracking these calls via AMA study records helps prevent this occurrence.	5E6 and later	381
DA411	Local Directory Assistance calls.		9
DA555	Toll Directory Assistance calls.		33
DDD0	Direct Distance Dialing Operator-assisted OSPS T&A calls.		024
DMRT	Detail billed, message rate, timed.		5
DMRTM	Detail billed, message rate, timed. Also includes an MBI.		1
DMRUM	Detail billed, message rate, untimed. Includes an MBI.		
EIOSPS	Emergency Interrupt T&A OSPS calls.		044
ETCCSA	Electronic Tandem Common Control Switching Arrangement.		
ETMDR	Electronic Tandem Message Detail Recording (via Revenue Accounting Office-RAO).	5E3 and later	
FGAOL	Feature Group A Originating LATA.		
FGATL	Feature Group A Terminating LATA.		
FGBOL	Feature Group B Originating LATA.		
FGBTL	Feature Group B Terminating LATA.		
FGDOL	Feature Group D Originating LATA.		
FGDTL	Feature Group D Terminating LATA.		
FGDWBL	Feature Group D WATS Originating LATA. Used for InterLATA calls with a Group Billing Number.		114
FR	Flat rate calls. This AMA Call Type should be used for local calls from telephone subscribers having flat rate service. AMA Call Type "FREE" should be used for free calls from a flat-rate line.		
FREE	Free calls. This AMA Call Type should be used for all free calls from non-coin lines. Free calls from coin lines should be assigned AMA Call Type "LOCN". Calls to TSPS, tones, announcements, business office and free terminating line service are normally designated as free.		
FX	Foreign Exchange.		11
ICVPN	Originating Access to Interexchange Carrier Virtual Private Network.		263
INWAT	Terminating INWATS.		8
INWTS	Terminating INWATS.	5E4(2) and later	8
ISDATA	ISDN data intraLATA calls.	5E3 and later	
ISDNOL	ISDN data originating interLATA calls.	5E3 and later	117
ISDNTL	ISDN data terminating interLATA calls.	5E3 and later	121
LNPDFR	Local Number Portability	5E13 and later	721
LOCN	Local coin calls should be used for all calls from coin lines except calls to		41

	local or toll Directory Assistance. For those calls, AMA Call Types DA411 and DA555 should be used. AMA Call Type LOCN must contain an MBI assigned on the 5302-4 Record. AMA Call Types DA411 and DA555, when used for coin, must also contain an MBI assigned on the 5302-4 Record.		
MRTM	Message rate, timed, includes an MBI.		
MRUM	Message rate, untimed, includes an MBI.		4
NONR	Nonrevenue OSPS T&A calls.	5E4(2) and later	35
NRBLV	Busy Line Verify, Nonrevenue OSPS T&A calls.	5E4(2) and later	057
NREIOSPS	Nonrevenue emergency interrupt OSPS T&A call.	5E4(2) and later	058
NS	Number services call, use call code from SCP data base stored in call code.	5E4(2) and later	
OSOINW	Originating Screening Office INWATS.	5E5 and later	360
PECO	Person collect OSPS T&A call.	5E4(2) and later	017
PEPD	Person paid OSPS T&A call.	5E4(2) and later	016.
PPCZTA	Person coin zone OSPS T&A call.	5E4(2) and later	029
PSCD	Person special called OSPS T&A call.	5E4(2) and later	023
PSCG	Person special calling OSPS T&A call.	5E4(2) and later	018
SCBLV	Special calling busy line verify OSPS T&A call.	5E4(2) and later	054
SCEI	Special calling emergency interrupt OSPS T&A call.	5E4(2) and later	055
SCOL	Station collect OSPS T&A call.	5E4(2) and later	014
SCOSPS	Station coin zone OSPS T&A call.		
SP	Station paid. Provides details for a direct dialed, station paid 7 or 10 digit call.		
SPAMEG	MEGACOM service.		309
SPAWAT	Special Access Wide Area Telecommunications Service.		
SPOH	Station paid operator-handled OSPS T&A call.	5E4(2) and later	
SPOSPS	Station paid OSPS T&A call.	5E4(2) and later	
SSCD	Station special called OSPS T&A call.		
SSCG	Station special calling OSPS T&A call.		015
SSVC	Special service OSPS T&A call.	5E4(2) and later	108
TANTTK	Tandem Tie Trunk calls.		32
TCNT	OSPS Traffic Counts AMA record.	5E4(2) and later	056
UTT	Utility Telemetry Trunk	5E9(2) and later	550
WATISB	WATS individual station paid. Used for IntraLATA calls with a Station Billing Number.		7
WATSB	WATS using special billing. It is for IntraLATA calls with a Group Billing Number		68
WATSBL	WATS station billed InterLATA. Used for InterLATA calls with a Station Billing Number.		111

Figure 1 VALID AMA CALL TYPE ENTRIES

AMA CALL TYPE	DETAIL BILL	TRACER TYPE	INCLUDE MBI/WATS BAND?	STUDY TYPE	SPECIAL STUDY?	INCLUDE CUSTOMER ID?
ACCT	N	OTHER	N	OTHER	N	N
ATTSP	Y	TOLL	N	TOLL	N	N
AUTO	N	OPER	N	OPER	N	N
BLVOSPS	Y	OPER	N	OPER	N	N
CCSAS	Y	OTHER	N	OTHER	N	N
CFPFNA	N	OTHER	N	OTHER	N	N
CMC	Y	SPCL	N	TOLL	N	N
CNA	Y	TOLL	N	TOLL	N	N
CRED	N	OTHER	N	OTHER	N	N
DA411	N	SPCL	N	LOCL	N	N
DA555	N	SPCL	N	TOLL	N	N
DDDO	N	TOLL	N	TOLL	N	N
DIDSTUDY	Y	OTHER	N	OTHER	N	N
DMRT	Y	LOCAL	N	LOCL	N	N
DMRTM	Y	LOCAL	Y	LOCL	N	N
DMRUM	Y	LOCAL	Y	LOCL	N	N
EIOSPS	Y	OPER	N	OPER	N	N

ETCCSA	Y	OTHER	N	OTHER	N	N
ETMDR	Y	OTHER	N	OTHER	N	N
FGAOL	N	INTERLATA	N	LOCL	N	N
FGATL	N	INTERLATA	N	LOCL	N	N
FGBOL	N	INTERLATA	N	LOCL	N	N
FGBTL	N	INTERLATA	N	LOCL	N	N
FGDOL	N	INTERLATA	N	INTERLATA	N	N
FGDTL	N	INTERLATA	N	INTERLATA	N	N
FGDWBL	N	INTERLATA	Y	INTERLATA	N	N
FR	Y	OTHER	N	LOCL	N	N
FREE	Y	OTHER	N	LOCL	N	N
FX	Y	OTHER	N	OTHER	N	N
ICVPN	Y	TOLL	N	TOLL	N	N
INWTS	N	SPCL	N	OTHER	N	N
ISDATA	N	SPCL	N	LOCL	N	N
ISDNOL	N	INTERLATA	N	INTERLATA	N	N
ISDNTL	N	INTERLATA	N	INTERLATA	N	N
LNPDFR	Y	LOCAL	N	LOCL	N	N
LOCN	Y	OTHER	N	OTHER	N	N
MRTM	N	LOCAL	Y	LOCL	N	N
MRUM	N	LOCAL	Y	LOCL	N	N
NONR	N	OTHER	N	OTHER	N	N
NRBLV	Y	OTHER	N	OPER	N	N
NREIOSPS	Y	OTHER	N	OPER	N	N
NS	Y	OTHER	N	OTHER	N	N
OSOINW	Y	TOLL	N	TOLL	N	N
PECO	N	OPER	N	OPER	N	N
PEPD	N	OPER	N	OPER	N	N
PPCZTA	Y	OPER	N	OPER	N	N
PSCD	N	OPER	N	OPER	N	N
PSCG	N	OPER	N	OPER	N	N
SCBLV	Y	OPER	N	OPER	N	N
SCEI	Y	OPER	N	OPER	N	N
SCOL	N	OPER	N	OPER	N	N
SCOSPS	Y	OPER	N	OPER	N	N
SP	Y	TOLL	N	TOLL	N	N
SPAMEG	Y	TOLL	Y	TOLL	N	N
SPAWAT	Y	TOLL	Y	TOLL	N	N
SPOH	N	OPER	N	OPER	N	N
SSCD	N	OPER	N	OPER	N	N
SSCG	N	OPER	N	OPER	N	N
SSVC	N	SPCL	N	OTHER	N	N
TANTTK	N	OTHER	N	OTHER	N	N
TCNT	N	OPER	N	OPER	N	N
WATISB	Y	SPCL	N	TOLL	N	N
WATSB	Y	SPCL	Y	TOLL	N	N
WATSRI	Y	INTERLATA	Y	INTERLATA	N	N

Figure 2 AMACT ENTRIES BUILT BY ODA 5E9(1) AND LATER SOFTWARE RELEASES

amact
(5506)

5ESS OFFICE DATA ADMINISTRATION
AMA CALL TYPE FORM

```

*  1. AMA CALL TYPE                                DMRTM
   2. DETAIL BILL                                  Y
   3. TRACER TYPE                                  LOCAL
   4. INCLUDE MBI / WATS BAND?                     Y
   5. STUDY TYPE                                    LOCAL
   6. SPECIAL STUDY?                                N
   7. INCLUDE CUSTOMER ID?                          N

```

Figure 3 SAMPLE AMACT FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 5G: 5507 RECORD IOP APPLICATION PROCESSOR COMMUNICATION FORM - APCOMM

1. GENERAL

The 5507 Record is available with 5E3 and later Software Releases and is used to define the communication path between an application process running in the 5ESS Switch, and an application running in an AP (Application Processor). The Application Processor Communications Package formats, sends and receives messages to an AP from the Input/Output Processor through a Synchronous Data Link Controller. APPLICATION PROCESSOR on the OFCOPT form must be "AM" or "AMSM".

For 5E4(2) and later, a maximum of 10 AP SITE IDs may be defined for the office.

1.1 Recent Change View

The corresponding Recent Change View for this form is 24.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * AP SITE ID

Description: Enter the Site Identification Number of the Application Processor. This number identifies the AP to the 5ESS Switch.

Required Field.

Valid Entries: 1 - 255

2.3 AP INDEX

Description: Enter the Application Processor Index; this number must be unique to each AP SITE ID entered. A maximum of three AP SITE ID and associated AP INDEX values are currently supported.

Required Field.

Valid Entries: 1 - 3

2.4 REMARKS

Description: Enter a descriptive comment.

Valid Entries: 1 - 8 characters

2.5 LINK (1-6)

Description: These entries represent the external data links that connect the AP to the 5ESS Switch. At least one of the six LINKs must be assigned for each APCOMM input form submitted. Once a link is assigned on a given APCOMM input form, it cannot be used again on any other APCOMM input form submitted. A given AP can be assigned any number of the available links, but since the maximum number of APs is currently three, the suggested number of links assigned to each AP is two. Although the range for this field is 1 - 32, currently the only valid entries are 1 - 6.

Valid Entries: 1 - 6

```

apcomm                               5ESS Switch
(5507)                               OFFICE DATA ADMINISTRATION
                                      IOP APPLICATION PROCESSOR COMMUNICATION

```

* 1. AP SITE ID 001

2. AP INDEX 1

3. REMARKS _____

4. LINK 1 01

5. LINK 2 02

6. LINK 3 03

7. LINK 4 ____

8. LINK 5 ____

9. LINK 6 ____

Figure 1 SAMPLE APCOMM FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5I: 5509 RECORD OFFICE OPTIONS FORM - OFCOPT

1. GENERAL

The OFCOPT form is available with 5E2 and later Software Releases. This form must be completed for a 5ESS Switch and is used to supply various miscellaneous office options and parameters. This form is required at the time of initial translations for all offices.

The 5509 Record is provided as a reproducible form that may optionally be used. However, if this record is requested in the ODA data base using "records" command, the screen image of the input form will be printed instead of the tabularized record.

1.1 Recent Change View

The corresponding Recent Change Views for this form are 8.1 and 8.15.

2. FORM AND RECORD ENTRIES

2.1 *KEY

Description: Enter the key value which is always 0.

2.2 OFFICE ID

Description: This field is used to identify the office to the Recent Change System. Any entry which will sufficiently identify the office is acceptable.

Valid Entries: 1 - 8 alphanumeric characters

2.3 COMPANY ID

Description: This field is used to identify the Company. This field may be used for Secured Feature Activation using a common company-wide password rather than an individual switch-specific password. For more information, please see the Feature Description Section in Division 2, Section 1BX.

Valid Entries: 1 - 8 alphanumeric characters

2.4 TIME ZONE

Description: Enter the time zone in which the 5ESS Switch is located. This entry reflects the hour difference between the office and GMT (Greenwich Mean Time).

Valid TIME ZONE Entries	
Entry	Definition
-12 through +12	Hour difference between office and GMT
EST or -5	Eastern Standard Time
CST or -6	Central Standard Time
MST or -7	Mountain Standard Time
PST or -8	Pacific Standard Time
-5S	Software Release: 5E5 and later. Eastern Standard Time Special (no Daylight Savings Time)
-6S	Software Release: 5E5 and later. Central Standard Time Special (no Daylight Savings Time)
-7S	Software Release: 5E5 and later. Mountain Standard Time Special (no Daylight Savings Time)
-8S	Software Release: 5E5 and later.

2.5 DAYLIGHT SAVINGS TIME

Description: Is Daylight Savings Time observed in this office?

Valid Entries: Y, N

2.6 COIN RETURN POTENTIAL

Description: Enter the potential used by the office for coin return.

Valid Entries: "PLUS" or "MINUS"

2.7 EXPANDED INBAND SGNLING

Description: Is Expanded Inband Signaling provided in the office? Expanded Inband Signaling provides the 5ESS Switch with the ability to recognize a lengthened on-hook wink from the TSPS.

Valid Entries: Y, N

2.8 STUCK COIN REPORT

Description: This field identifies the frequency, in minutes, with which the Stuck Coin Report is printed.

Valid Entries: 15, 30, 45 or 60 minutes

2.9 LTP SCR

Description: Enter the Screening Index to be used for Logical Test Port calls. An entry must be made in this field if any of the following are supported by the office: ROTL, Remote TLWS or CTTU.

This Screening Index is accessed during digit analysis of ROTL (Remote Office Test Line) Security Callback and Connection Appraisal calls or termination to the Remote Talk and Monitor Telephone Numbers of either the Remote TLWS (Trunk and Line Work Station) or CTTU (Central Trunk Test Unit).

The Screening Index used should have the characteristics of a simple POTS line Screening Index, such as single party flat rate or equivalent.

Valid Entries: 1 - 4095

2.10 LTP DAS

Description: Enter the DAS (Digit Analysis Selector) to be used for Logical Test Port calls. An entry must be made in this field if any of the following are supported by the office: ROTL, Remote TLWS or CTTU.

This DAS is accessed during digit analysis of ROTL (Remote Office Test Line) Security Callback and Connection Appraisal calls or termination to the Remote Talk and Monitor Telephone Numbers of either the Remote TLWS (Trunk and Line Work Station) or CTTU (Central Trunk Test Unit).

The Digit Analysis Selector used should have the characteristics of a simple POTS line Digit Analysis Selector, such as single party flat rate or equivalent.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

For 5E16(2) and later, when LTP DAS is entered, LTP SCR must be entered.

2.11 LTP RAX

Description: This field indicates the rate center for the routing and charging for ROTL, CTTU, IMLT2, and remote TLWS connection appraisal calls.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no LTP RAX, or 1 - 999

Data Rules:

LTP RAX must be zero or must not be entered when LTP SCR is not entered.

2.12 LTP CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no LTP CODE RESTRICT, or 1 - 125

Data Rules:

LTP CODE RESTRICT must be zero or must not be entered when LTP SCR is not entered.

2.13 AM ODD MEMORY SIZE

Description: This field is used to indicate the amount of memory in kilobytes to be reserved for the ODD (Office Dependent Data).

The basis for populating this field is the number of EOP (End-Of-Period) lines as it appears in 5DOPS (5ESS Switch Digital Ordering and Planning System).

Default:

5E15 and earlier: 10240

5E16 and later: 16384

Valid Entries: (see table)

Valid AM ODD MEMORY SIZE Entries			
Software Release	VCDX	3B21	DRM
5E9(2) - 5E11	6144	3584	-
5E12	9216	10240	-
5E13	10240	10240	-
5E14 - 5E15	10240	10240	10240
5E16 and later	10240	16384	10240

2.14 ODD DISK SIZE

Description: This field indicates in kilobytes the amount of disk space available for disk resident ODD (Office Dependent Data).

The appropriate disk configuration for an office is based on formulas in 5DOPS (5ESS Digital Ordering and Planning System) which relate to the total SM ODD size and the AMA requirements of the office. DISK CONFIGURATION information is entered on the ECDOPT form.

Default:

5E8 and later: 8992

Valid Entries:

Valid ODD DISK SIZE Entries		
Software Release	Values	DISK CONFIGURATION on ECDOPT form
5E8 and later	8992	63, 66

For 5E13 and earlier, the ODD DISK SIZE on the OFCOPT form must correspond to the DISK CONFIGURATION on the ECDOPT form. The ODD DISK SIZE on the OFCOPT form must correspond to the DISK CONFIGURATION on the RETINFO form.

2.15 EOP LINES

Description: Enter the EOP (End-Of-Period) lines.

Valid Entries: 0 - 99, 999

2.16 EOP TRUNKS

Description: Enter the EOP (End-Of-Period) trunks.

Valid Entries: 0 - 99, 999

2.17 EOP SCR

Description: Enter the EOP (End-Of-Period) Screening Indexes.

Valid Entries: 1 - 4095

2.18 EOP CDI

Description: Enter the EOP (End-Of-Period) Code Indexes.

Valid Entries: 1 - 4095

2.19 RCOSL

Description: This is a Recent Change only field used for Operations System.

NDC NTMOS/RCVERBOSE OPTS

The following fields are used to indicate whether or not the office has a link to NDC OS. Refer to Section 2.20 - Section 2.25 for individual field information.

2.20 EADAS LINK

Description: The EADAS LINK field is changed to TRFM LINK for 5E15 and later. See TRFM LINK below for usage information.

2.21 TRFM LINK

Description: Prior to 5E15, this field was called EADAS LINK. Is there a link to the Network Data Collections Operations System?

Valid Entries: Y, N

Data Rules:

For Flexible IOP Selection (5E4(2) and later), if "Y" is entered in this field, DEVICE TYPE on the ECDOPT form must be "SDL3".

2.22 RCVERBOSE

Description: This is a Recent Change only field which indicates whether a one line summary of Recent Change inserts, updates, deletes and failures is printed on the ROP (Receive Only Printer) after a Recent Change transaction has completed. If this option is set to "Y", all recent changes are logged to the ROP unless the user specifically sets the verbose option to "N".

2.23 RNM LINK

Description: Does this office have a direct link to the RNMC (Remote Network Management Center) system data link?

Software Release: 5E7 and later

Valid Entries: Y, N

Data Rules:

If RNM LINK is set to "Y", DEVICE TYPE on the ECDOPT form must be "SDL5". Conversely, if "N" is entered, DEVICE TYPE on ECDOPT form cannot be "SDL5".

2.24 TRFM RNM OPT

Description: The value of this field indicates which type of link (TRFM or RNM) is used for the TCP/IP link.

Software Release: 5E15 and later

Default: NONE

Valid Entries:

Valid TRFM RNM OPT Entries - 5E15 and later	
Entry	Definition
BOTH	TRFM and RNM links are the TCP/IP links.
NONE	No TCP/IP links.
RNM	Remote Network Management Link is the TCP/IP link.
TRFM	Traffic Measurement Link is the TCP/IP link.

Data Rules:

When TRFM RNM OPT is "NONE", RNM LINK must be "N".

When TRFM RNM OPT is "RNM", RNM LINK must be "Y".

When TRFM RNM OPT is "TRFM", TRFM LINK must be "Y".

When TRFM RNM OPT is "BOTH", TRFM LINK must be "Y" and RNM LINK must be "Y".

When TRFM RNM OPT is "BOTH", "RNM" or "TRFM", LOC IDENT CODE must be entered.

TRFM RNM OPT can be set to "BOTH", "RNM" or "TRFM", when the ACT field for SFID 532 is set to "Y" on the SFSYS form (5713-1 Record).

2.25 LOC IDENT CODE

Description: The value of this field is the Common Language Location Identifier Code that is unique to the SPCS (Stored Program Control System).

Software Release: 5E15 and later.

Valid Entries: Blank, or 11 Alphanumeric Characters

LOC IDENT CODE must be entered when TRFM RNM OPT is "BOTH", "RNM" or TRFM".

2.26 ACTIVATE DIV OF REV

Description: Is the Division of Revenue feature to be activated?

Valid Entries: Y, N

2.27 DIV OF REV HOURLY RPTS

Description: Are the hourly Division of Revenue reports to be generated?

Valid Entries: Y, N

2.28 DIV OF REV COUNT TYPES

Description: Enter the type of Division of Revenue reports which are to be sent to EADAS.

Valid Entries: PEG, USAGE, or BOTH.

2.29 5 MIN PERM SIG THRESHOLD

Description: This field establishes a threshold for the number of permanent signal conditions appearing on lines within a 5 minute interval. When this threshold is exceeded, an alarmed message will be produced at the RSB (Remote Service Bureau), if equipped, or at the SCC (Switching Control Center).

The threshold value is dependent upon the number of lines in an office. A suggested value can be derived using the formula $((\text{Number of Lines} * 1/600) + 7)$. Employing this formula, a 5,000-line office would have a 5-Minute Permanent Signal Threshold value of 15.

Valid Entries: 4 - 90

2.30 VAR TIME PERM SIG THRESHOLD

Description: This field establishes a threshold for the number of permanent signal conditions appearing on lines within a variably set interval. When this threshold is exceeded, an alarmed message will be produced at the RSB (Remote Service Bureau), if equipped, or at the SCC (Switching Control Center).

The threshold value is dependent upon the number of lines in an office. A suggested value can be derived using the formula $((\text{Number of Lines} * 3/800) + 13)$. Employing this formula, a 5,000-line office would have a Variable Time Permanent Signal Threshold value of 31.

Valid Entries: 4 - 400

2.31 VAR TIME PERM SIG INTERVAL

Description: This field defines the interval, in minutes, for the Variable Timed Permanent Signal Threshold.
Valid Entries: 15, 30, 45 or 60 minutes

2.32 ALLOW TOUCH TONE FRAUD

Description: Can all customers in the database marked as DP (Dial-Pulse) only originate calls with DTMF (Dual Tone Multifrequency) station sets? This is also called Touch Tone fraud.

Default: N

Valid Entries: Y, N

2.33 PRINT TOUCH TONE FRAUD

Description: Should the TTY print a message whenever Touch Tone fraud occurs? This allows the maintenance personnel to change the database and either correct their records or have the Business Office contact the customer about paying for DTMF service.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, ALLOW TOUCH TONE FRAUD? must be "Y".

2.34 #DSN OPTION

Description: Is this a Defense Switched Network office?

Software Release: 5E3 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "N" is entered in the DSN OPTION? field, an entry in the BILLING DN field of the TKGRP form (5202 Record) is allowed for TRKCLS values of "LATA", "PF", "PFLASH", "PFITT", "LTPCLBCK", "LTPDFTAC", "LTPROTL", "EDSL", "EDSLHM", "IFOPER" and "IFTERM".

In a DSN office (DSN OPT is "Y"), if the AMA LENGTH field on the ACCTFD form (5623-1 Record) is set to 8, then the ACCT LENGTH field on the ACCTGP form (5623-2 Record) must be less than or equal to 7. If the AMA LENGTH field on the ACCTFD form is set to 15, then the ACCT LENGTH field on the ACTGP form must be less than or equal to 14.

For 5E9(1) and later, if the DSN OPT field is set to "Y", then:

- TIMING forms with a SERVICE CLASS of "PF" must conform to one of the two following rules:
 - if SIGNAL TYPE is "NONE", START SIGNAL must be "DIRC"
 - if SIGNAL TYPE is not "NONE", then it must be "DP", "TT" or "MF" and START SIGNAL must be "DLAY", "DLTN", "IMED", "WINK", "GRND", "LOOP" or "ANSDTONE".
- TIMING forms with a SERVICE CLASS of "LTOLLCON" must conform to one of the three following rules:

- if SIGNAL TYPE is either "RPEO" or "RPTO", START SIGNAL must be "IMED";
 - if SIGNAL TYPE is "NONE", START SIGNAL must be "DIRC";
 - if SIGNAL TYPE is not "RPEO", "RPTO" or "NONE", it must be "DP" or "MF" and START SIGNAL must be "DLAY", "IMED", "WINK" or "DLTN"
- TIMING forms with a SERVICE CLASS of "PFLASH" must conform to one of the two following rules:
 - if SIGNAL TYPE is "NONE", START SIGNAL must be "DIRC";
 - if SIGNAL TYPE is not "NONE", it must be "DP", "TT" or "MF" and START SIGNAL must be "DLAY", "DLTN", "IMED", "WINK", "GRND" or "LOOP".

2.35 #CPE OPTION

Description: Is the 5ESS Switch configured as CPE (Customer Premises Equipment)?

This field is set to "Y" when the 5ESS Switch is configured as a privately-owned PBX.

When this field is "Y", the power level of dial tone generated by the switch is lowered and the loss plan for talking connections is altered.

When this field is "N", no digital loss is inserted on line-to-line connections, and no digital loss is inserted in the plan from the line to the trunk on line-to-trunk connections.

Software Release: 5E3 and later
 Required Field for 5E4(2) and later.
 Default: N
 Valid Entries: Y, N

2.36 SES

Description: Enter the SES trunk group number. This entry is used to declare which trunk group is the Service Evaluation System trunk group for the office.

More than one TKGRP form can have a TRKCLS of "SES", but only one value can be entered for SES on the OFCOPT form. This means that the other trunks with TRKCLS "SES" will not have full [if any] SES functionality.

Software Release: 5E7 and later.
 Valid Entries:
 For 5E10 and earlier: 1 - 2000
 For 5E11 and later: 1 - 4000

Data Rules:

If SES is entered, then it must be defined as a TGN on the TKGRP form and TRKCLS must be set to "SES".

BATCH RC/V

The following fields (Section 2.37 - Section 2.42) are used for Batch Recent Change/Verify.

2.37 BATCH RC/V INTERVAL

Description: Enter the number of hours between scheduled Batch RC/V (Recent Change/Verify) releases.

Default: 1

Valid Entries: 0 - 24

- **NOTE:** Although zero is a legal value, it should not be entered because it means the Batch RC/V process would run continuously.

2.38 BATCH RC/V RELEASE TIME

Description: Enter the number of minutes past the hour that Batch RC/V changes should be released.

Default: 0

Valid Entries: 0 - 59

2.39 BATCH RC/V CLEANUP AGE

Description: Enter the number of days a Batch RC/V file may age before being cleaned up.

Default: 14

Valid Entries: 0 - 30

- **NOTE:** Although zero is a legal value, it should not be entered because it means the Batch RC/V file would be cleaned up in less than 24 hours, when the next Batch RC/V process begins.

2.40 BATCH RC/V CLEANUP TIME

Description: This field indicates what time to start the Batch RC/V cleanup process.

Default: 00:00

Valid Entries: 00:00 - 23:59 (hrs:min) where 00:00 is midnight.

2.41 BATCH RC/V INHIBIT

Description: Should the Batch RC/V process be inhibited?

Default: Y

Valid Entries: Y, N

2.42 BATCH CLEANUP INHIBIT

Description: Should the Batch RC/V cleanup process be inhibited?

Default: Y

Valid Entries: Y, N

TRUNK ERROR ANALYSIS

The following fields (Section 2.43 - Section 2.44) are used to analyze trunks.

2.43 ROUTE TO TERA?

Description: Should the MDIIs (Machine Detected Interoffice Irregularities) be sent to TERA (Trunk Error

Analysis)?

Default: Y

Valid Entries: Y, N

2.44 ERROR THRESHOLD

Description: Enter the consecutive error count analysis threshold to be used in reporting Trunk port or UTD (Universal Tone Decoder) failures which are sent to TERA.

Default: 3

Valid Entries: 1 - 15

2.45 MFR REVERTIVE MANUAL?

Description: Are revertive calls originated by MFR (Multi-Frequency Ringing) customers to be completed manually via an operator?

Revertive calls are calls originated by one party of a multi-party line (i.e., they share common line equipment).

■ **NOTE:** Offices which do not have MFR customers should use the default value.

Default: N

Valid Entries: Y, N

2.46 2 PARTY ANI?

Description: Do calls originated by two party lines require ANI (Automatic Number Identification) or ONI (Operator Number Identification) for billing?

■ **NOTE:** For 5E5 and later, this field was moved to the IMINFO form (5510 Record).

Required Field.

Valid Entries: Y, N

2.47 LOCAL TRAF MEAS CHANNEL?

Description: For 5ESS Switch owners who do not utilize an EADAS (Engineering and Administrative Data Acquisition System), is a local traffic channel of the IOP (Input/Output Processor) equipped to print traffic reports locally or remotely or to collect the traffic reports for further processing by some other system?

Default: SUMMARY

Valid Entries:

Valid LOCAL TRAF MEAS CHANNEL Entries	
Entry	Definition
BOTH	Both traffic measurement reports are printed.
SECTION	Traffic measurement section reports are printed.
SUMMARY	Traffic measurement summary reports are printed.

Data Rules:

If "SECTION" is entered, then TRAFFIC CHNL (TTY7) on the ECDOPT form must not be equipped.

If "SUMMARY" is entered, TRAFFIC CHNL (TTY7) on the ECDOPT form must be equipped.

2.48 IMLT-2?

Description: Does the office have the IMLT-2 (Integrated Mechanized Loop Testing) System?

Valid Entries: Y, N

Data Rules:

For Flexible IOP Selection (5E4(2) and later), if "Y" is entered in this field, then "SDL2" must be entered as a valid DEVICE TYPE on the EDCOPT form.

2.49 IMLT RETRY

Description: The IMLT (Integrated Mechanized Loop Testing) RETRY field indicates whether or not the IMLT retry timer should be activated.

Required field.

Software Release: 5E16(2) FR 1 and later

Default: N

Valid Entries: Y, N

Data Rules:

When IMLT RETRY is "Y", the ACT field for SFID 685 on the SFSYS form (5713-1 Record) must also be set to "Y".

2.50 IMLT RDELAY

Description: The IMLT RETRY time delay field indicates the amount of time in seconds that is designated for IMLT retry.

Required field.

Software Release: 5E16(2) FR 1 and later

Default: 25

Valid Entries: 1 - 60 seconds

2.51 #APPLICATION PROCESSOR

Description: Does the office have the Application Processor Option?

Software Release: 5E3 and later

Required Field.

Default: NO

Valid Entries:

Valid AP Entries - 5E4(2) and later	
Entry	Definition
NO	No APs on this switch
AM	Only AM IOP APs on the switch
SM	Only ISDN SM APs on this switch
AMSM	Both AM IOP and ISDN SM APs on this switch.

Data Rules:

If the APCOMM form (5507 Record) is submitted, then APPLICATION PROCESSOR must be set to "Y".

2.52 CARRIER ID

Description: The Carrier Identification Code specifies the OSPS number associated with certain operator

service features. It is used to route Carrier Interconnect calls when the line subscriber (or trunk) originates a CI call and does not explicitly dial an FGD CAC (Carrier Access Code) and has neither a PIC nor a Group PIC. The PIC (Presubscribed InterLATA Carrier) is assigned on the LINE or MLHLN forms. Group PICs may be assigned on IDPGP forms for terminals belonging to an Individualized Dialing Plan.

Software Release: 5E5 and later

Valid Entries:

For 5E9(1) and later: 0 - 9999

Data Rules:

If a Carrier Identification Code is entered, it must be defined on the ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must equal "D".

If CARRIER ID is not entered, then an FIXRT form must exist for each of the following FIXED ROUTE TYPE values:

ANSTO
DCOFHK
IECFAIL
INVPIC
NO10XX
NOACK
NOSSD
NOSTART
OSANITO
REQ10XX
SSDOFHK

For 5E8 and later, if "OFFICE" CARRIER is 288 (0288 for 5E9(1) and later) and OFFICE TYPE is "Y" on this form, and "Y" is entered in OSPS TA on the OSPSOPT form (5424 Record), then at least one FIXRT form (5301-1 Record) must have a FIXED ROUTE TYPE of "OEASERR".

2.53 TOLL CARRIER

Description: Enter the presubscribed intraLATA toll carrier designation. This field supports the Intra-LATA PIC secured feature. For more information on this feature, see Division 2, Section 4A149.

Software Release: 5E9(1) and later.

Valid Entries: 0 - 9999 or blank

Data Rules:

For 5E14 and later, the TOLL CARRIER entered requires a CARRIER ID on the ICF form with FEAT GRP equal to "D".

For 5E14 and earlier, if this field is entered, the TOLL CARRIER must be entered as the CARRIER ID on the ICF form (5305 Record).

This field is used by the Intra-LATA PIC feature. It is a secured feature that must be purchased by the office

before the field can be entered. The ACT field for SFID 149 on the SFSYS (5713-1 Record) must be set to "Y", before this field can be entered.

2.54 ICLATA SCD IND

Description: Should Intra-LATA PIC Selective Carrier Denied 0- calls be routed to an announcement? Enter "Y" for routing to an announcement or "N" to route to LEC. This field supports the Intra-LATA PIC secured feature. For more information on this feature, see Division 2, Section 4A149.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

This field is used by the InterLATA Carrier's IntraLATA Capability Special Feature. It is a secured feature that must be purchased by the office before the field can be set to "Y", i.e., the ACT field for SFID 149 on the SFSYS (5713-1 Record) must be set to "Y".

This field also requires the Selective Carrier Denial secured feature. Before this field can be set to "Y", the ACT field for SFID 13 on the SFSYS (5713-1 Record) must be set to "Y".

This field is used by the Alternate Local Service Provider Routing feature. It is a secured feature that must be purchased by the office before the field can be set to "Y". The ACT field for SFID 269 on the SFSYS (5713-1 Record) must be set to "Y".

2.55 RINGING TIMEOUT

Description: This field indicates in minutes how long ringing will continue if the following conditions do not occur: answer, abandon or overload. If the conditions are not met the call will unconditionally timeout. If this field is left blank, no timeout will occur.

Valid Entries: 2 - 32767 minutes

2.56 INTEROFFICE TRACE NUMBERS

Description: Enter a maximum of four 7- or 10-digit Interoffice Trace Numbers. All interoffice calls made to these designated Telephone Numbers will be traced.

Valid Entries: 7- or 10-digit TN (0 - 9)

2.57 CAMA - ONI TRUNK TROUBLE CODE NUMBERS

Description: If one or more Trunk Groups with a trunk class of CAMOPKEY are equipped in the office, a maximum of four 7-digit CAMA Trunk Trouble Code Numbers may be specified in these fields. These Telephone Numbers are used by the CAMA Operator when trouble is encountered on a particular call. The operator is able to key in one of these trouble code numbers and report the trouble.

Valid Entries:

For 5E11 and earlier: 7-digit TN (0 - 9)

For 5E12 and later: XXXXXXXX where X is 0 - 9

Data Rules:

If these fields are left blank, all ONI calls will be redirected to the "CAMAONI" fixed route defined on the FIXRT form (5301-1 Record).

2.58 NM DEFAULT NPA

Description: This is the implied NPA for the office. The Area Code entered will be used for Network Management code control and for Carrier Interconnect calls when the Area Code is not analyzed in digit analysis forms of LDIT and INDIT as part of the Incoming Digits string. The Area Code to be entered is usually considered the Home NPA of the office and is most frequently implied for 7-digit calls by the originator. For cases where the Area Code entered here is not to be used, NPAs entered on the LDIT and INDIT will override the DEFAULT NPA.

If this office is equipped with the SSP 800 feature (SERV SWITCH PT set to "Y"), this field is used to determine if intraLATA routed numbers returned from the SCP database are to be routed as 7-digit calls. Refer to Division 2, Section 1X for more information on the SSP 800 feature.
Valid Entries: 200 - 999

2.59 NM SILC LEVEL 1

Description: This field is used by NM (Network Management) SILC (Selective Incoming Load Control). Enter a percentage of calls that will be blocked during machine congestion level 1.
Default: 0.0
Valid Entries: 0.0 - 100.0 in increments of 12.5

2.60 NM SILC LEVEL 2

Description: This field is used by NM (Network Management) SILC (Selective Incoming Load Control). Enter a percentage of calls that will be blocked during machine congestion level 2.
Default: 0.0
Valid Entries: 0.0 - 100.0 in increments of 12.5

2.61 COMMON CHAN SIG

Description: Does the office use CCS (Common Channel Signaling)?

For 5E11 and later, enter the CCS platform being used in this office.

Required Field for 5E11 and later.

Default: NO for 5E11 and later.

Valid Entries:

For 5E10 and earlier: Y, N

For 5E11 and later: See table below.

Valid COMMON CHAN SIG Entries	
Entry	Definition
CNI	SS7 on CNI (Common Network Interface) platform is used in this office.
NO	No SS7 platform is used in this office.
PSU	SS7 on PSU (Packet Switch Unit) platform is used in this office.
ALL	Software Release: 5E12 and later CNI and SS7 are equipped in this office. This allows use of the CNI or a given GSM to signal for a specific ISUP trunk group. For reliability considerations, an ISUP trunk group can be added on

a given GSM and use the GSM's PSU for signaling instead of the CNI ring. When using the PSU, all members of the given ISUP trunk group must physically reside on the given GSM. Only 16 GSMs are allowed in a given office; not all SMs can equip PSU signaled ISUP trunk groups. For TCAP applications (NS800, ASP, ISVM, CNAM, LASS), PSU signaling can be the application used when on a GSM. When on a non-GSM, the application must use the CNI for signaling.

Data Rules:

For 5E10 and earlier:

If "Y" is entered, at least one Link Node should be specified as "Y" on the ECDOPT form (5706 Record).

For 5E9(1) through 5E10:

- If "N" is entered, then SERV SWITCH PT? must be "N".

For 5E9(1) and later:

- If COMMON CHAN SIG is entered for a non-ATT office, only one Origination Point Code is allowed for CCS7 Trunk Groups. Thus, if the ORIG PT CODE on the TKGRP form (5202 Record) is entered, it must be the same on all TKGRP forms where it has been entered and it must match the OPC on the OFCOPT form.

For 5E11 and later:

If COMM CHAN SIG is set to "CNI" but does not agree with the data found in the office database, the discrepancy can cause serious problems during booting. Contact the Lucent Technologies Project Consultant at once.

The entry in this field must be consistent with the entry for the PRODUCT field on this form.

Only when COMMON CHAN SIG is "CNI" or "PSU" on this form, may ACT PT SDN be "Y".

If COMMON CHAN SIG is "NO" or "PSU" then:

- ORIG SCREEN OFF must be "N"
- ACTION POINT must be "N"
- ACT PT SDN must be "N"
- HOMENPA must not be entered.

CNI:

If COMMON CHAN SIG is "CNI" on this form with INPUTSING/OUTPUTSING set to "ISUP7" on the TKGRP form (5202 Record) or WB RATE is entered and INPUTSING/OUTPUTSING is set to "DCHN" on the TKGRP form, then LOCAL SM must be entered on the TKGRP form.

NO:

When COMM CHAN SIG is set to "NO", SERV SWITCH PT? must be "N".

COMM CHAN SIG must not be set to "NO" when INPUTSING or OUTPUTSING is "CCIS6" or "ISUP7" on the TKGRP form (5202 Record).

If COMMON CHAN SIG is "NO", the CCSRTI form(s) (5313 Record) should be defined.

When a DSAPP form (5537 Record) is entered, COMMON CHAN SIG can not be "NO".

PSU:

If COMMON CHAN SIG is "PSU" on this form with INPUTSING/OUTPUTSING set to "ISUP7" on the TKGRP form (5202 Record) or WB RATE is entered and INPUTSING/OUTPUTSING is set to "DCHN" on the TKGRP form, then LOCAL SM must be entered on the TKGRP form and LOCAL SM must match GSM on the CCGSM form (6008 Record).

If COMMON CHAN SIG is "PSU" on this form, then a CCGSM form must be defined.

If COMMON CHAN SIG is "PSU" on this form, then APPLIC on the DSAPP form (5537 Record) must be "ACND", "ASP", "ISVM", "LASS", "NS800", "AINR0D1", "LNACP", or "TNAI".

For 5E15 and later:

when COMMON CHAN SIG is set to "PSU" or "ALL" on this form, the first three digits of DEST POINT CODE are not equal to "000", INPUTSING/ OUTPUTSING is set to "ISUP7" and LOCAL SM is known on the TKGRP form (5202 Record):

the LOCAL SM on the TKGRP form must match either the SM on the MDLNK form (6009 Record) or the NON GLOBAL SM on the CMTMH form (6021 Record); and

the GSM on the CCGSM form (6008 Record) must match either the SM on the MDLNK form or the GLOBAL SM on the CMTMH form.

when COMMON CHAN SIG is set to "PSU" or "ALL" on this form, INPUTSING/OUTPUTSING is set to "ISUP7", the first three digits of the DEST POINT CODE are not equal to "000" and LOCAL SM is unknown on the TKGRP form (5202 Record):

the first three digits of TEN, DEN, or NEN for all members of that trunk group entered on the TRUNK form (5204 Record) must match either SM on the MDLNK form (6009 Record) or NON GLOBAL SM on the CMTMH form (6021 Record); and

GSM on the CCGSM form must match either SM on the MDLNK form or GLOBAL SM on the CMTMH form.

ALL:

For 5E14 and later, when COMMON CHAN SIG is "ALL" on this form, the value of each ALIAS PC on the CCGSM form must not match either the value of OPC on the OFCOPT form or the value of ALIAS POINT CODE on the ALIASPC form.

2.62 DIRECT LINK NODE

Description: Does a DLN (Direct Link Node) exist in the CCS office?

Software Release: 5E4(2) and later

Valid Entries: Y, N

Data Rules:

For 5E10 and earlier:

If DIRECT LINK NODE is "Y", then COMMON CHAN SIG must be "Y".

For 5E11 and later:

If DIRECT LINK NODE is "Y", then COMMON CHAN SIG must be "ALL" or "CNI".

2.63 ORIG SCREEN OFF

Description: Is the office an Originating Screening Office for INWATS (800) calls?

For LEC switches, this field should be left blank or set to "N".

Valid Entries: Y, N

Data Rules:

If "Y" is entered, COMMON CHAN SIG must equal "Y" and HOME NPA must be entered.

With 5E4(2) and later, if ORIG SCREEN OFF is "Y" the SERV SWITCH PT must not be "Y".

If ORIG SCREEN OFF or SERV SWITCH PT is "Y", then if TRK DIR is "INC" and TRKCLS is not "DIOR", "TOPAS", "RMSD3", or "INAISTRK", and for 5E9(1) and later is also not "ACJCK", "BUSYVFY", or "LTOLLCON", then FAR END NPA must be entered on the TKGRP form.

For 5E9(1) and later, if "Y" is entered then SERV SWITCH PT? must not be "Y".

2.64 HOME NPA

Description: This field applies to any toll network switch that does 800 screening and is defined as an 800 originating screening office (ORIG SCREEN OFF set to "Y"). The HOME NPA represents the home NPA of the toll office doing the screening. It is used to determine whether or not the translated 800 number (POTS number) returned from the NCP/STP is within the Home NPA.

For LEC switches, this field should be blank.

Valid Entries: 200 - 999

Data Rules:

If ORIG SCREEN OFF is "Y", the Home NPA of the office must be entered otherwise it should be left blank.

2.65 ACT PT SDN

Description: Does the office serve as an ACP (Action Control Point) for the SDN (Software Defined Network)?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

An office serving as an ACP must provide CCS (Common Channel Signaling), therefore, if this field is "Y", then the COMMON CHAN SIG field must be "Y".

An office cannot serve as an ACP and an SSP (Service Switching Point), therefore, if this field is "Y", then the SERV SWITCH PT field must be "N".

For 5E7 and later, if SERV SWITCH PT or ACT PT SDN equals "Y", at least one SCFAM form (5536 Record) must exist.

For 5E9(1) and later, if "Y" is entered, then SERV SWITCH PT? may not be "Y".

2.66 #SERV SWITCH PT?

Description: Can this SSP (Service Switching Point) office process Number Services calls?

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y", the LATA NUMBER field must be entered.

For 5E6 and later, if SERV SWITCH PT? is "Y", then incoming and two-way trunk groups (TRK DIR is "INC" or "2W" on the TKGRP form) must be assigned a FAR END NPA on the TKGRP form (5202 Record).

If ORIG SCREEN OFF or SERV SWITCH PT is "Y", then if TRK DIR is "INC" and TRKCLS is not "DIOR", "TOPAS", "RMSD3", or "INAISTRK", and for 5E9(1) and later is also not "ACJCK", "BUSYVIFY", or "LTOLLCON", then FAR END NPA must be entered on the TKGRP form.

For 5E7 and later, if SERV SWITCH PT or ACT PT SDN equals "Y", at least one SCFAM form (5536 Record) must exist.

For 5E8 and later, if SERV SWITCH PT? is "N", on each ICF form where FEAT GRP equals "D" and CARRIER TYPE equals "LEC" or "PSEUDO", NS CDI and NS RTI must not be entered.

For 5E9(1) and later:

- If COMMON CHAN SIG is "N", then SERV SWITCH PT? must be "N".
- If "Y" is entered, then LATA NUMBER must be known.
- If ORIG SCREEN OFF is "Y", then SERV SWITCH PT? must not be "Y".
- If ACT PT SDN is "Y", then SERV SWITCH PT? may not be "Y".

For 5E11 and later:

When this field is "Y", ACT PT SDN must be "N".

2.67 LATA NUMBER

Description: Enter the LATA (Local Access and Transport Area) number for this office. For 5E11 and later, LATA fields were added to the DSAPP (5537 Record) and LCC (5306 Record) forms to support the TCAP Improvements for Switches Spanning Multiple LATAs feature which extends the operation of the current LASS features to support lines (or groups of lines) in LATAs other than the LATA specified on this OFCOPT form. For more information on this feature, see Division 2, Section 4A171.

Software Release: 5E4(2) and later
Valid Entries: 100 - 999

Data Rules:

For 5E9(1) - 5E10, this field must be entered if SERV SWITCH PT? is "Y".

For 5E11 and later, if this field is not entered, SERV SWITCH PT? must be "N".

2.68 EXTRA START WINK

Description: Does an Equal Access End Office expect to receive an extra start wink from an International Carrier over the shared Trunk Group to the access tandem?

Default: N

Valid Entries: Y, N

2.69 OPC

Description: OPC preserves the 9-character origination point code for an office having a CNI frame to support CCS7 trunking over retrofit. This is the same value as OPC on the TKGRP form. A value cannot be entered in this field.

For 5E9(1) and later, OPC indicates the office is using the AT&T format and therefore all the DEST PT CODE values on the TKGRP form must be in the correct format based on the first 3 digits. If the first 3 digits of the DEST PT CODE are 236 or 254 and match the first 3 digits of the OPC field, then the DEST PT CODE must be in the AT&T format, else the T1 CCS format will be used.

Software Release: 5E8 and later

Data Rules:

For 5E15 and later, if the first three digits of the OPC on this form are 236 or 254, then ISUP7 trunks in an AT&T-C office or a UNITEL office must be signaled via the CNI platform and one of the following conditions must exist:

The Pseudo-Point Code Capability feature must be activated. (For a more detailed discussion of the Pseudo-Point Code Capability feature, see Sections 6.5.52 and 6.5.57 of the 235-190-120 document.)

The TCAP (Transaction Capabilities Application Part) Message Tandem feature must be activated. This is a secured feature that is activated by setting the ACT field for SFID (Secured Feature ID) 195 to "Y" on the SFSYS form (5713-1 Record). For more information on the TCAP Message Tandem feature, see Division 2, Section 4A195.

EQUAL ACCESS

The following fields (Section 2.70 - Section 2.73) are used only when this office serves as InterLATA Carrier switch (i.e. when the associated trunk groups have a TRKCLS of "LATA").

When overlap outpulsing is used by an EAEO (Equal Access End Office) for EA (Equal Access) Three-Stage Signaling, the overlap outpulsing timers will prevent abnormal holding of 5ESS Toll Switch resources.

2.70 TIME

Description: Enter the maximum time in milliseconds to wait between the Equal Access Signaling digit sequences (i.e., the ANI and address sequences). When EA (Equal Access) Three-Stage Signaling is used, the value entered in this field represents the maximum time allowed from the receipt of the last digit of the second stage to the receipt of the first digit of the third stage.

Default: 300000

Valid Entries: 2000 - 300000.

2.71 OVERLOAD TIME

Description: Enter the maximum time in milliseconds to use (instead of the value entered in TIME) when the switch is in overload condition.

Default: 15000

Valid Entries: 2000 - 15000

2.72 OFFICE TYPE

Description: Is this a switch owner toll office? "N" indicates this is a LEC (Local Exchange Carrier) office.

This field is used to allow software features which are to be used only in the switch owner network. It controls certain OSPA features and the Fully Coded Addressing feature that attaches specific digits to international calls processed in the switch owner network.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "N", then the OFFICE CARRIER field will automatically be assigned a value of "000".

If this field is "Y" and the OFFICE CARRIER field has the value of 288 (0288 for 5E9(1) and later), indicating that this is a switch owner toll office, then each SMLDIT form (5315 Record) that is associated with a special Toll DAS value (81, 82, 89, 90, 91, 92, 97, 98) must include every SM in the office (i.e., all of the SMs defined on an EQIM form (5700-1 Record)). The SMLDIT form is associated with a DAS value via the LOCAL DIT field on a DAS form (5300-1 Record).

If the OFFICE TYPE has a value of "Y", the OFFICE CARRIER field has a value of "288" (0288 in 5E9(1) and later) indicating that this is a switch owner toll office; and in addition, the ACT PT SDN field on the OFCOPT form is "Y", indicating that this office serves as an ACP (Action Point) for the SDN (Software Defined Network); then, the SMLDIT form which is associated with the Toll DAS value of 88 must include every SM that has any trunks which are defined on the TKGRP form with INPULSING set to "ISUP7" or ACP SDN set to "Y". (The associated SM(s) can be found in the first three digits of the DEN, TEN, or (for 5E9(2) and later) NEN field on all related TRUNK forms.)

For 5E8 and later, if OFFICE TYPE is "Y", then RCD 3PT1 ITC on the TKGRP form (5202 Record) must not be entered and, RCD 3PT1 ITC on this form must be "3PT1KHZ".

For 5E14 and later, when DRM is "Y" on the EQCORE form, OFFICE TYPE must be "N".

2.73 OFFICE CARRIER

Description: For a 5ESS Toll Switch, the international carrier identification of the office should be entered in this field.

The Carrier Identification Code entered in this field is also the OSPS backup carrier for operator services dialing and operator conferencing when the designated carrier cannot handle the call. The carrier identification entered in this field is the primary OSPS carrier used for back party recalls and operator delayed (booked) calls.

For AT&T switches, enter 288 (0288 for 5E9(1) and later). For LEC (Local Exchange Carrier) owned switches, 0 should be entered even though such a switch may have toll functionality.

Software Release: 5E5 and later

Default: 000

Valid Entries:

For 5E9(1) and later: 0 - 9999 or LEC

Data Rules:

For 5E8 and later, if OFFICE CARRIER is 288 (0288 for 5E9(1) and later) and OFFICE TYPE is "Y" on this form, and "Y" is entered in OSPS TA on the OSPSOPT form (5424 Record), at least one FIXRT form (5301-1 Record) must have a FIXED ROUTE TYPE of "OEASERR".

For 5E9(1) through 5E13, the OFFICE CARRIER field must be entered as CARRIER ID on the ICF form if OFFICE CARRIER has a value other than "LEC".

For 5E14 and later, the OFFICE CARRIER field on the OFCOPT form is required to be entered as CARRIER ID with FEAT GRP equal to "D" on the ICF form, if OFFICE CARRIER has a value other than "LEC".

AMA RECORDING OPTIONS

The following fields (Section 2.74 - Section 2.105) are used for AMA billing. All the AMA RECORDING OPTIONS must be entered.

2.74 AMA METHOD

Description: Enter the method to be used for AMA billing.

- **NOTE:** For 5E5 and later, if "NONE" is entered a warning message will be displayed to alert the office that all billing WITHIN the office has ceased. (Billing could be handled externally through CAMA facilities.)

Default: AMATPS

Valid Entries:

Valid AMA METHOD Entries	
Entry	Definition
AMATPS	Allows a small office to use teleprocessing. Enter this value if the office uses LAMA (Local AMA).

AMATPS1	Makes the billing system act like AMATPS, but should only be used when the office is normally a Dual Stream office that is operating in a "degraded" single stream mode defaulting to Stream 1.
AMATPS2	Should only be used when the office is operating in a "degraded" single stream mode defaulting to Stream 2.
AMADUAL	Allows the office to operate as a full Dual Stream office, with billing traffic going to two separate streams. This allows large offices to process and send two separate billing streams simultaneously.
NONE	Turns off all billing options in an office except for CAMA billing.

2.75 AMADNS ACTIVE

Description: Use the Automatic Message Accounting Data Networking System billing interface?

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered:

SFID 328 on the SFSYS form must be set to "Y".

AMA METHOD field must be set to "AMATPS" or "AMATPS1".

2.76 MIN AMA ALRM

Description: Enter AMA Disk Writer Minor Alarm setting as a percentage of the total AMA disk storage. (See Division 2, Section 1AX, *Allow Craft To Set AMA Alarm Levels* for more information.)

Software Release: 5E8 and later

Required Field.

Default: 70 (%)

Valid Entries: 0 - 96 (%)

Data Rules:

If MIN AMA ALRM must be at least 2 less than the value of MAJ AMA ALRM (given that MAJ AMA ALRM is populated with a valid value 2 - 98), and at least 4 less than the value of CRIT AMA ALRM, (given that CRIT AMA ALRM is populated with a valid value 4 - 100).

2.77 MAJ AMA ALRM

Description: Enter AMA Disk Writer Major Alarm setting as a percentage of the total AMA disk storage. (See Division 2, Section 1AX, *Allow Craft To Set AMA Alarm Levels* for more information.)

Software Release: 5E8 and later

Required Field.

Default: 90 (%)

Valid Entries: 2 - 98 (%)

Data Rules:

If the value of MAJ AMA ALRM must be at least 2 greater than the value of MIN AMA ALRM (given that MIN AMA ALRM is populated with a valid value 0 - 96), and at least 2 less than the value of CRIT ALRM (given that CRIT AMA ALRM is populated with a valid value 4 - 100).

2.78 CRIT AMA ALRM

Description: Enter AMA Disk Writer Critical Alarm alarm setting as a percentage of the total AMA disk storage. (See Division 2, Section 1AX, *Allow Craft To Set AMA Alarm Levels* for more information).

Software Release: 5E8 and later

Required Field.

Default: 100 (%)

Valid Entries: 4 - 100 (%)

Data Rules:

If the value of CRIT AMA ALRM must be at least 4 greater than the value of MIN AMA ALRM (given that MIN AMA ALRM is populated with a valid value 0 - 96), and at least 2 greater than the value of MAJ AMA ALRM (given that MAJ AMA ALRM is populated with a valid value 2 - 98).

2.79 ISDAMAOPT

Description: This field is used to select the type of AMA records generated as a result of CSD (Circuit-Switched Data) calls. Should voice ("Y") or data ("N") structure and call codes be used in the AMA record for CSD calls?

When "N" is entered, the existing 5E3 and later implementation of AMA call codes and structure codes for CSD calls are used.

When "Y" is entered, the existing voice call codes and structure codes are used for CSD calls.

When either "N" or "Y" is entered, an EBAF (Extended Bellcore AMA Format) record is appended to the AMA record. This appended record contains information about the type of service invoked by the CSD call. A 070 Module is appended when a signaling/supplementary service is invoked, otherwise, Module 071 is appended.

Software Release: 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.80 ISVAMAOPT

Description: This field is used to select the type of AMA records generated as a result of CSV (Circuit-Switched Voice) calls.

When "Y" is entered, either module AAA or BBB is always appended to an existing voice structure code, depending upon whether a signaling/supplementary service is used in the call.

When "N" is entered, a data module is not appended unless a signaling/supplementary service is used, in which case module AAA is used.

In addition, an EBAF (Extended Bellcore AMA Format) record is appended to the AMA record. This appended record contains information about the type of service invoked by the CSD call.

When "Y" is entered, either the 070 Module or 071 Module will always be appended to the record. Module 070 is appended when a signaling/supplementary service is invoked, otherwise, Module 071 is appended. When "N" is entered, no EBAF record is appended unless a signaling/ supplementary service is used.

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.81 SHORT SUPERVISORY TRANSITIONS

Description: Are Short Supervisory Transitions (also referred to as Signaling Irregularities) recorded for all billable calls?

When set to "Y", up to 16 Short Supervisory Transitions can be recorded per call.

Default: N

Valid Entries: Y, N

2.82 LOCAL ANSWERED CALLS?

Description: Should local answered calls generate AMA data?

An entry of "N" indicates that calls will not be recorded on AMA for Tracer Types defined as local on the 5506 Record (AMACT form). This is intended to be used in case of trouble to enable higher revenue calls to continue to be recorded.

Default: Y

Valid Entries: Y, N

2.83 LOCAL ABANDONS?

Description: Should AMA data be recorded for abandoned local calls?

Default: N

Valid Entries: Y, N

Data Rules:

If the entry is "Y", calls recorded will be those defined as LOCAL in the STUDY TYPE field of the AMACT form (5506 Record).

2.84 TOLL ABANDONS?

Description: Should AMA data be recorded for abandoned toll calls?

Default: Y

Valid Entries: Y, N

Data Rules:

If the entry is "Y", calls recorded will be those defined as TOLL in the STUDY TYPE field of the AMACT form (5506 Record).

2.85 SPECIAL ABANDONS?

Description: Should AMA data be recorded for abandoned calls which are associated with particular AMA Call

Types that are being used for special studies?

Default: N

Valid Entries: Y, N

Data Rules:

The special study AMA Call Types must be defined on the AMACT form.

2.86 ALL ABANDONS?

Description: Should AMA data be recorded for all abandoned calls?

Default: N

Valid Entries: Y, N

Data Rules:

If the entry is "Y", calls recorded will be those defined as "LOCAL", "TOLL" and "OTHER" in the STUDY TYPE field of the AMACT form (5506 Record).

2.87 SSU ON LOCAL CALLS?

Description: Should the Switch Supervisory Unit (also referred to as the Trunk Network Number) be recorded for local calls?

Default: N

Valid Entries: Y, N

2.88 SSU ON TOLL CALLS?

Description: Should the Switch Supervisory Unit (also referred to as the Trunk Network Number) be recorded for toll calls?

Default: N

Valid Entries: Y, N

2.89 LOCAL COIN

Description: Should AMA records be generated for local-coin sent-paid calls? When LOCAL COIN is set to "Y", an AMA record will be generated for each local sent-paid coin phone call not involving an operator. This field is used by the Coin Line AMA Secured Feature; for more information, see Division 2, Section 4A70.

Software Release: 5E7 and later

Default: N

Valid Entries: Y, N

Data Rules:

This field is used by the Coin Line AMA, a secured feature, and must be purchased by the office; therefore, the SFID 70 on the SFSYF form (5713-1 Record) must be set to "S" or "Y", before "Y" can be entered in this field.

2.90 SSU ON ALL CALLS?

Description: Should the Switch Supervisory Unit (also referred to as the Trunk Network Number) be recorded for all calls?

Default: N

Valid Entries: Y, N

2.91 TERMINATING INTERLATA?

Description: Should terminating call recording be done on calls received from InterLATA Carriers associated with CI (Carrier Interconnect)?

This is considered the master switch for CI terminating billing.

If this entry equals "N", the Charge Index options for Feature Group B and D Terminating LATA billing will be ignored.

Default: Y

Valid Entries: Y, N

2.92 SSU ON INTERLATA?

Description: Should the Switch Supervisory Unit (also referred to as the Trunk Network Number) be recorded on answered InterLATA calls?

Default: N

Valid Entries: Y, N

2.93 HR INWATS OVERFLOW RECORD?

Description: Should the hourly AMA records be produced for the cumulative count of overflows due to busy INWATS terminating Multiline Hunt Groups?

Default: N

Valid Entries: Y, N

2.94 DID TIMEOUT

Description: Enter the amount of time in minutes that a DID facility will be terminated without receiving answer supervision from the PBX before a DID study is generated by AMA. If 0 is entered, DID study records will not be generated.

Software Release: 5E6 and later

Required Field.

Default: 5

Valid Entries: 0 - 60 (minutes)

2.95 CMC WINK CONNECT

Description: Should the initial wink received from the FGD carrier be used as the CMC (Cellular Mobile Carrier) connect time? This parameter is used to determine the begin time for AMA Billing for calls from a CMC to an FGD (Feature Group D) Carrier. A "Y" indicates the connect time begins when the initial wink is received from the FGD carrier. The default value "N" indicates that the connect time begins when seizure is detected on an incoming trunk.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

2.96 AMA ERROR MIN ALARM

Description: Should a minor alarm be generated when AMALOST and AMAIRR records are sent to the ROP? This parameter is being added as part of the AMA ERROR LOG FILE feature. This parameter will NOT be coupled with the AMALOST and AMAERROR records that will be written to the new log file.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.97 LDC GEN TIME

Description: Enter the time of day to generate AMA Long Duration Call records. The entry must be in the format of HH:MM where HH is the hour and MM is the minute. Enter midnight as 00:00. All five characters, including the colon, must be entered. This field supports the AMA Long Duration Recording Duration Enhancements feature. For more information on this feature, see Division 2, Section 1AP.

Software Release: 5E10 and later
Required Field.
Default: 00:00
Valid Entries: HH:MM, where
 HH is 00 - 23
 MM is 00 - 59

2.98 TRUNK

Description: Should the trunk module be appended to AMA Records? This field was added for the Local Trunk Billing Enhancements secured feature. For more information concerning this feature, see Division 2, Section 4A278.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The Local Trunk Billing Enhancements secured feature that must be purchased by the office, and the ACT field for SFID 278 on the SFSYS form must be set to "Y" before the TRUNK field on the OFCOPT form can be set to "Y".

2.99 OPER

Description: Should an AMA Record be generated for operator services? This field was added for the AMA Recording Capabilities for Unbundled Local Switching secured feature. For more information concerning this feature, see Division 2, Section 4A281.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The AMA Recording Capabilities for Unbundled Local Switching is a secured feature that must be purchased by the office, and the ACT field for SFID 281 on the SFSYS form must be set to "Y" before the OPER field on the OFCOPT form can be set to "Y".

2.100 ORIG UNBUNDLED

Description: This field is used to control AMA (Automatic Message Accounting) recording for originating unbundled lines.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the ORIG UNBUNDLED , ORIG RESOLD, TERM UNBUNDLED or TERM RESOLD fields are set to "Y", or the UNBLD/RESLD SC field is set to "001", the ACT field for SFID 321 on the SFSYS form (5713-1 Record) must be set to "Y".

2.101 ORIG RESOLD

Description: This field is used to control AMA (Automatic Message Accounting) recording for originating resold lines.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

2.102 TERM UNBUNDLED

Description: This field is used to control AMA (Automatic Message Accounting) recording for terminating unbundled lines.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

2.103 TERM RESOLD

Description: This field is used to control AMA (Automatic Message Accounting) recording for terminating resold lines.

Software Release: 5E12 and later

Required Field.

Default: N

Valid Entries: Y, N

2.104 UNBLD/RESLD SC

Description: This field is used to select the structure code to be used when a Call Type Record CC126 or CC128 is generated through the AMA (Automatic Message Accounting) Recording for Resale and Unbundled. For further information on this feature, see Division 2, Section 4A321.

Software Release: 5E12 and later

Required Field.

Default: 500

Valid Entries: 001 or 500

2.105 AMA AIN BUSY NA

Description: Is the AMA Recording for AIN Busy and Don't Answer Calls feature active? This field supports the AMA Recording for AIN Busy and Don't Answer Calls secured feature. For more information on this feature, see Division 2, Section 4A166. When this field is set to "Y", busy or abandoned ASP calls with a pending AMA record will generate an XX220 or XX221 record. When this field is set to "N", busy ASP calls with a pending AMA record will not generate a record. Existing AMA functionality will determine whether abandoned or unanswered ASP calls with a pending AMA record will generate a record.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E10 and 5E11

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The SFID 166 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

When this field is set to "Y" and the AMA Recording - IN Busy Don't Answer secured feature has been purchased with SFID 166 ACT field set to "Y" on the SFSYS form, then SFID 126 ACT field on the SFSYS form must also be set to "Y".

TESTING OPTIONS

The following fields (Section 2.106 - Section 2.111) are used for Automatic Line Insulation Testing.

2.106 ALIT START TIME

Description: Enter the scheduled start time for ALIT (Automatic Line Insulation Testing).

Valid Entries: 00:00 - 23:59 (hrs:min) where 00:00 is midnight.

Data Rules:

If any ALIT option is entered, all ALIT fields must have an entry.

2.107 ALIT DURATION

Description: Enter the duration, in hours, of ALIT (Automatic Line Insulation Testing).

Valid Entries: 0 - 8

Data Rules:

If any ALIT option is entered, all ALIT fields must have an entry.

2.108 ALIT RANGE

Description: Enter the resistance range to be used during ALIT testing. A higher resistance range gives a greater test sensitivity.

Valid ALIT RANGE Entries			
Resistance Range	ALIT Pack Equipped		
	TN 330	TN 329	TN 328
A	320 K ohms	80 K ohms	80 K ohms
B	1.25 M ohms	320 K ohms	160 K ohms
C	2.5 M ohms	1.25 M ohms	640 K ohms
D	5.0 M ohms	5.0 M ohms	2.5 M ohms

Data Rules:

If any ALIT option is entered, all ALIT fields must have an entry.

2.109 ALIT TYPE

Description: Enter the ALIT test type desired for the office.

Valid ALIT TYPE Entries	
Entry	Definition
FEMF	Foreign potential on-line test, with retest on failure.
SRG	Short circuit and Ring to Ground test, with retest on failure.
TRG	Tip or Ring to Ground test, with retest on failure.
GEN	General test, which incorporates FEMF plus SRG plus TRG tests, with no retest on failure.

Data Rules:

If any ALIT option is entered, ALIT Type must have an entry.

2.110 IMT INHIBIT

Description: The Integrated Metallic Testing Inhibit field is used to inhibit ALIT for the entire office.

Software Release: 5E16(2) FR 6 and later

Default: N

Valid Entries: Y, N

2.111 IMT RESIST

Description: This field defines resistance range sets available for LIT testing from IMT (Integrated Metallic Testing) lines.

Software Release: 5E16(2) FR 6 and later

Default: MED

Valid Entries:

Valid IMT RESIST Entries	
Entry	Definition
blank	null.
XLO	Equivalent to MSU ALIT TN1636 (range 20KOhm to 2.5MOhm)
LOW	Equivalent to MSU ALIT TN328, TN1613, TN1538 (range 80KOhm to 2.5MOhm)
MED	Equivalent to MSU ALIT TN329, TN1614, TN1539 (range 80KOhm to 5MOhm)
HIGH	Equivalent to MSU ALIT TN330, TN1615, TN1540 (range 320KOhm to 5MOhm)

Data Rules:

If any ALIT option is entered, ALIT Type must have an entry.

APT TESTING

The following fields are used to designate the start time, duration and the algorithm, number of processes, day on which APT Testing should be done. Refer to Section 2.112 - Section 2.116 for individual field information.

2.112 ALGORITHM

Description: This field indicates the algorithm used for offices in APT (Automatic Progression Testing) for trunks on DS1s (Digital Signal Level 1). Analog trunks are tested sequentially during APT testing independently. This field supports the APT Enhancements feature. For information on this feature see, Division 2, Section 2AD.

Required Field.

Software Release: 5E16 FR2 and later

Default: SEQN

Valid Entries:

Valid ALGORITHM Entries	
Entry	Definition
1ONLY	Test One Only (test one trunk only on the DS1, independently on this field value whether test passes or fails and then move to a trunk on another DS1).
FULL	Full (test all trunks on the DS1, independently on this field value whether test passes or fails, and then move to a trunk on another DS1).
SEQN	Sequential (APT should test all trunks sequentially in the office, independently on APT testing algorithm settings for individual DS1s).
SUCC	Stop on Success (test one trunk on the DS1 and then move to a trunk on another DS1 if test passes, or test next trunk on the same DS1 if test fails).

Data Rules:

When ALGORITHM is "SEQN", PROCS NBR must be 2.

2.113 PROCS NBR

Description: This field indicates the maximum number of concurrent APT (Automatic Progression Testing) processes that can be running. This field supports the APT Enhancements feature. For information on this feature see, Division 2, Section 2AD.

Required Field.

Software Release: 5E16 FR2 and later

Default: 2

Valid Entries: 1 - 8

2.114 APT START TIME

Description: Enter the scheduled start time for APT (Automatic Progression Testing) on trunks.

Valid Entries: 00:00 - 23:59 (hrs:min) where 00:00 is midnight.

Data Rules:

If any APT option is entered, all APT fields must have an entry.

2.115 APT DURATION

Description: Enter the duration, in hours, of APT (Automatic Progression Testing).

Valid Entries: 0 - 8

Data Rules:

If any APT option is entered, all APT fields must have an entry.

2.116 DAYS ON WHICH APT TESTING IS TO BE CONDUCTED:

This field contains an entry for every day of the week. Enter a "Y" opposite the appropriate day if APT testing is to be conducted on that day. Otherwise, enter "N".

Data Rules:

If any APT option is entered, all APT fields must have an entry.

2.117 OCTL TONE DURATION

Description: Enter the duration in tenths of a second for the Open Circuit Test Tone.

Default: 50 (5 seconds)

Valid Entries: 0 - 127

2.118 OCTL OPEN DURATION

Description: Enter the duration in seconds of the open circuit to be used during open circuit testing.

Default: 30

Valid Entries: 0 - 127 seconds.

TWS FOR 101TL:

The following fields (2.89 - 2.91) are used to specify the order of priority for terminating incoming 101 Test Line calls. Duplicated designations are not allowed.

2.119 FIRST

Description: Enter the priority order of the TWS (Trunk Work Stations) to be used for terminating incoming 101 Test Line calls.

Default: "LOCAL"

Valid Entries:

Valid TWS FOR 101TL Entries	
Entry	Definition
LOCAL	Local TLWS (Trunk and Line Work Stations).
REMOTE	Remote TLWS (Trunk and Line Work Stations).
CTTU	Central Trunk Test Unit.

2.120 SECOND

Description: Enter the priority order of the TWS (Trunk Work Stations) to be used for terminating incoming

101 Test Line calls.

Valid TWS FOR 101TL Entries	
Entry	Definition
LOCAL	Local TLWS (Trunk and Line Work Stations).
REMOTE	Remote TLWS (Trunk and Line Work Stations).
CTTU	Central Trunk Test Unit.

2.121 THIRD

Description: Enter the priority order of the TWS (Trunk Work Stations) to be used for terminating incoming 101 Test Line calls.

Valid TWS FOR 101TL Entries	
Entry	Definition
LOCAL	Local TLWS (Trunk and Line Work Stations).
REMOTE	Remote TLWS (Trunk and Line Work Stations).
CTTU	Central Trunk Test Unit.

MSU/MMSU ALARMS CONTROLS/REPORTS

The following fields (Section 2.122 - Section 2.126) are used for MSU/MMSU Alarms.

2.122 MISCELLANEOUS ALM OPT

Description: Is the office equipped with the MSU/MMSU Miscellaneous Alarms option?

Default: N

Valid Entries: Y, N

2.123 #OVERLAP SIZE

Description: Enter the number of digits in the message that it sends from originating treatment to terminating treatment to outpulse to the external operator system when overlap outpulsing is in effect.

Software Release: 5E4(2) and later

Required Field.

Default: 1

Valid Entries: 1 - 15

2.124 #DN PRIVACY?

Description: Is DN (Directory Number) privacy on for the office?

This field should not be used when the office does not have all-call DN privacy assigned properly to the terminals in the office. In this way, the calling DNs will not be displayed until the data in the office has been set up correctly.

Software Release: 5E4(2) and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is set to "N", DN Privacy is not turned on for the office, but is turned on individually for each terminal (analog or ISDN) if DN Privacy is assigned to the terminal. Calling DNs can be displayed at those ISDN

terminals that have the Calling Number Delivery feature. If this field is set to "Y", then the calling DN will not be displayed even if the terminal has the Calling Number Delivery feature.

2.125 ISP DIGITS

Description: This field indicates the number of digits that must be collected before outpulsing can occur when an operator calls through the ISP (Intermediate Switch Point).

Software Release: 5E4(2) and later

Required Field.

Default: 2

Valid Entries: 2 - 31

2.126 FAIL ID

Description: This field indicates the destination index of the operator system announcement to route operator calls when the carrier cannot be determined because of a failure in digit reception from the local office.

Software Release: 5E4(2) and later

Valid Entries: 0 - 9999 or LEC

LEASED NETWORK

The following fields (Section 2.127 - Section 2.133) are parameters used for Leased Networks.

The fields (8 HR SCAN, 8 HR START, and 8 HR FREQ) are parameters used for the 8-hour passed MDR (Message Detail Recording) feature. The 8-hour passed MDR feature generates an additional MDR record for calls that have been in progress for 8-hours or more. The 8-hour passed MDR feature is assigned to a MDR Group by entering "Y" in the 8 HR PASSED field on the MDRGP form (5624-2 Record).

2.127 8 HR SCAN

Description: Should the 8-hour passed scanning software be activated?

The scanning software looks for calls that have been in progress for at least 8 hours. When the 8-hour passed scanning software is activated, the frequency of scanning will be determined by the values entered in the 8 HR START and 8 HR FREQ fields.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If the 8-hour passed scanning is activated, then an 8-hour passed MDR record will be generated when a call has been in progress for 8-hours or more and the 8-hour passed MDR feature has been assigned on the MDRGP form.

If this field is "N", the scanning software will not be activated, therefore, an 8-hour passed MDR record will not be generated even if a "Y" is entered in the 8 HR PASSED field on the MDRGP form.

2.128 8 HR START

Description: Indicate the starting time of the scanning software in hours past midnight. The scanning software looks for calls that are assigned the 8-hour passed MDR feature and have been in progress for a least 8-hours. The scanning will be done periodically based on the value entered in the 8 HR FREQ field. a required field.

Software Release: 5E5 and later

Required Field.

Default: 1 (1 a.m.)

Valid Entries: 0 - 23 (hours past midnight)

2.129 8 HR FREQ

Description: Indicate the scanning frequency of the software in hours. The scanning frequency is how often the scanning software looks for calls that are assigned the 8-hour passed MDR feature and have been in progress for at least 8-hours.

Software Release: 5E5 and later

Required Field.

Default: 8

Valid Entries: 2, 4, 6, or 8

For example, if 7 is entered in the 8 HR START field and 6 is entered in this field, scanning will occur at 7 a.m, 1 p.m, 7 p.m and 1 a.m.

2.130 TIME OUT

Description: This field specifies the number of seconds a Leased Network Action Control Point will wait for a response from the NCP (Network Control Point) before routing a call to reorder.

Software Release: 5E6 and later

Required Field.

Default: 4

Valid Entries: 2 - 6

2.131 GLBL TITLE

Description: This field is used by a Leased Network ACP (Action Control Point) when it queries the Network Control Point for routing and charging information. The field specifies a 6 digit global title, inserted by the ACP into the CCS7 SCCP header and translated by the STP (Signaling Transfer Point) into a Destination Point Code, to route a message to the NCP.

Software Release: 5E6 and later

Required Field.

Default: 0

Valid Entries: 0 - 999999

2.132 DAS

Description: This field specifies the DAS (Digit Analysis Selector) to be used for vacant code screening for Leased Network Action Control Point calls.

Software Release: 5E6 and later

Valid Entries:

Data Rules:

If entered, the Digital Analysis Selector must be defined on the DAS form (5300-1 Record). If the ACTION POINT field is "Y", this DAS may not appear on any TKGRP form.

2.133 ACTION POINT

Description: Is this office an Action Point for a Leased Network?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

All LN ACP offices must be equipped with a CCS7 CNI (Common Network Interface). Therefore, when ACTION POINT is "Y", COMMON CHAN SIG must also be "Y".

PPM PULSE WIDTH

The following fields (Section 2.134 - Section 2.136) are used to set the Battery reversal, Tone, and Third-wire PPM (Periodic Pulse Metering) pulse width for ISLUs.

2.134 #ISLU BATTERY

Description: This field indicates the ISLU Battery reversal PPM pulse width.

Software Release: 5E3 and later

Required Field.

Default: 0 ms

Valid Entries: 0, 100 - 800; in 50 ms increments.

2.135 #ISLU TONE

Description: This field indicates the ISLU tone PPM pulse width.

Software Release: 5E3 and later

Required Field.

Default: 0 ms

Valid Entries: 0, 100 - 800; in 50 ms increments.

2.136 #ISLU THIRD WIRE

Description: This field specifies the ISLU third-wire applique PPM pulse width.

Software Release: 5E3 and later

Required Field.

Default: 0 ms

Valid Entries: 0, 100 - 800; in 50 ms increments.

SPECIAL ACCESS

The following field is used for Special Features.

2.137 SP ACCESS

Description: Is the Special Access feature to be activated at this office?

The Special Access feature allows a customer to have a PBX (digital or analog) directly connected to the DLTU of a 5ESS Toll Switch.

This field must be "Y" if at least one Special Access customer is or will be connected to this switch.

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

CCS FEATURES

Available with 5E11 and later Software Releases, the following fields (Section 2.138 - Section 2.140) are used by the CCS (Common Channel Signaling) feature. These features are available for both the CNI-based SS7 signaling platform and the PSU-based SS7 (Signaling System 7) Signaling platform.

2.138 EXPANDED SLS

Description: Is the Expanded Signaling Link Selection feature to be activated at this office? The SLS feature determines the specific links and STP (Signal Transfer Points) used to route a message. This field is used to indicate whether expansion on the SLS is allowed. Such expansion allows the maximum size of a "B" or "D" link set to be 16 links compared to the previous value of 8. The expansion also allows a more even traffic distribution on links in a (combined) link set, especially after link failures. This field on this form defines the feature only for the CNI-based SS7 signaling platform. For the PSU-based SS7 signaling platform, see Division 9, Section 10H.

This feature is a secured feature with SFID 175 which must be set to "Y" on the SFSYS form before it can be activated.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered,

- SFID 175 ACT on the SFSYS form must be "Y".
- COMMON CHAN SIG must be "ALL" or "CNI".
- CNI EQUIP must be "Y".

If SFID 175 is not set to "Y" on the SFSYS form, EXPANDED SLS must be "N".

2.139 IMPROVED SLT

Description: Is the Improved Signaling Test feature to be activated at this office? This feature adds two additional capabilities to the existing SLT procedure. The first improvement provides that the test pattern sent in the second signaling link test message is the same as that sent in the first signaling link test message. This allows the response to the first test message to be accepted as a response to the second test message, in effect, allowing twice the time for a response to the first signaling link test message. The second improvement provides that when the "test available (i.e., in-service) links periodically" option is on, the test should be performed even on links which are experiencing transmit or receive congestion. This field defines the feature for both CNI and PSU-based SS7 signaling platforms.

This feature is a secured feature with SFID 176 which must be set to "Y" on the SFSYS form before it can be activated.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered,

- SFID 176 ACT on the SFSYS form must be "Y".

If SFID 176 is not set to "Y" on the SFSYS form, IMPROVED SLT must be "N".

2.140 MTP NODE RESTART

Description: Is the Message Transport Protocol feature to be activated at this office? This feature enables the MTP to bring sufficient signaling links into the available state to handle the expected traffic and to stabilize its routing before user traffic is restarted at a signaling point that has just become available. This procedure uses the TRA (Traffic Restart Allowed) and the TRW (Traffic Restart Waiting) messages. This field defines the feature for both CNI and PSU-based SS7 signaling platforms.

This feature is a secured feature with SFID 177 which must be set to "Y" on the SFSYS form before it can be activated.

Software Release: 5E11 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered,

- SFID 177 ACT on the SFSYS form must be "Y".

If SFID 177 is not set to "Y" on the SFSYS form, MTP NODE RESTART must be "N".

2.141 FALSE LINK CONG

Description: This field is used to display the false link congestion level.

Software Release: 5E13 and later

Required Field.

Default: LVL2

Valid Entries: None, LVL1, or LVL2

ADV SVC PLATFORM

Available with 5E6 and through 5E11 Software Releases, the following fields (Section 2.142 - Section 2.153) are used by ASP (Advanced Services Platform). For 5E12 and later, the following fields have been moved to the ASPOPT form (5670 Record). See Division 4, Section 31G.

2.142 MAX TRIG

Description: Enter the number of times an ASP call can serially trigger.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Valid Entries: 1 - 6

Data Rules:

When MAX TRIG is entered, then ASP OFC must be "SSP".

2.143 ACG FNL TRMT

Description: Enter the ACG (Automatic Call Gap) final treatment for calls blocked due to ACG controls.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Required Field.

Default: RT

Valid Entries:

Valid ACG FNL TRMT Entries	
Entry	Definition
RT	Reorder tone.
VA	Voice announcement. Routed to the "NCA" (National Congestion Announcement (no circuits available)
	Fixed Route Type.

2.144 RDRCT THRES

Description: Enter the Forward Call Redirection Threshold, the number of times an ASP call can be forwarded.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Valid Entries: 1 - 10

Data Rules:

When RDRCT THRES is entered, then ASP OFC must be "SSP".

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, RDRCT THRES must not be entered until SFID 126 ACT on the SFSYS form has been set to "Y".

2.145 ESC CD CNTL

Description: Can escape codes be used on dialed digits following the detection of an 0ZZ shared interoffice trigger on the INDIT form?

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When ESC CD CNTL is entered, then ASP OFC must be "SSP".

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, ESC CD CNTL must be "N" until SFID 6 ACT and SFID 126 ACT on the SFSYS form have been set to "Y".

2.146 INT OFC TRIG

Description: Enter the shared interoffice trigger number.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Valid Entries: 1 - 255

Data Rules:

When INT OFC TRIG is entered, then ASP OFC must be "SSP".

When INT OFC TRIG is entered, it must equal TRIG NBR on an NSTRIG form, where APPLICATION equals "ASP".

2.147 SCP DAS

Description: Enter the single DAS value for SCP return route trunk ASP calls.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When SCP DAS is entered, then ASP OFC must be "SSP".

When an SCP DAS is entered, it must be defined on an associated DAS form.

2.148 ASP OFC

Description: Enter the type of ASP (Advanced Services Platform) support to be provided by this office.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E6 through 5E11

Required Field.

Default: NONE

Valid Entries:

Valid ASP OFC Entries	
Entry	Definition
NONE or N	This office does not support ASP.
SSP or S	This office is an ASP SSP (Service Switching Point).

Data Rules:

For 5E6 and later, since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, ASP OFC must be "NONE" until SFID 58 on the SFSYS form has been set to "S" or "Y".

For 5E8 and later, if ASP OFC is not "SSP", NATURE OF NBR on all LDIT, MLDIT (5300-3 Record), or RDIT forms (5300-7/8 Record), and NON on all LDIT or RDIT forms must not be entered.

NONE For 5E8 and later, if "NONE" is entered,

- MAX CONV must be 5.
- NSTRIG forms must have APPLICATION equal to "E911" or 800.
- No CFGGRP forms (5964 Record) may exist with BUTTON LIST ACTION(s) of "ASPUSE".
- No ICF forms may exist with ASP CDI or ASP RTI entered.
- No MCRTIDX forms (5304 Record) may exist with MC ROUTE TYPE equals "ASP".
- No IDPDCA forms may exist with ACTION or CONFLICT ACTION equal to "IDPASP" (For 5E9(1) and later, "ASPDNC", "ASPNORM", "ASPVAR").

For 5E9(1) and later, if ASP OFC equals "NONE", no PDIT forms may exist with ACTION equals "ASPDNC", "ASPNORM", or "ASPVAR".

For 5E10 and later, when the OFCOPT form has ASP OFC defined as "NONE", there is no office support for ASP. The ICF forms can have neither ASP TF CDI nor ASP TF RTI entered.

SSP - For 5E8 and later, if ASP OFC equals "SSP"

- and APPLICATION equals "ASP" (and for 5E9(1) and later, AIN REL equals "R0") on an NSTRIG form (5324 Record), SERV KEY on that NSTRIG form must equal "CDPN" or "ANI".
- for 5E9(2) and earlier, there must be a FIXRT form where FIXED ROUTE TYPE equals "NSANNC", and

where CHARGE INDEX is not entered.

- Any MCRTIDX forms where MC ROUTE TYPE equals "ASP" must not have TRUNK GROUP NUMBER, DIGITS TO BE DELETED, PREFIX DIGITS, NEXT ROUTE, or NEXT MC ROUTE INDEX entered.
- A DSAPP form (5537 Record) must exist with APPLIC set to "ASP". For 5E9(1) and later, a DSAPP form must exist with APPLIC set to "ASP" or "AINR0D1".

For 5E9(1) and later, if ASP OFC is "SSP", then:

- ASP ANI and PSEUDO CARR must be entered;
- MAX TRIG must be entered;
- INT OFC TRIG must be entered.
- since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, MAX TRIG must equal 3 unless SFID 126 ACT on the SFSYS form has been set to "Y".
- for 5E9(1) only, if APPLIC is "ASP" on the DSAPP form (5537 Record) and the field HAVE THE DIALING PLANS FOR ASP USERS BEEN REVIEWED? is "N" on the ODAOPT form (5523 Record), data changes may be required for the continued seamless operation of the ASP capabilities after the office has retrofitted to 5E9(1). Reference material is available in the *GUIDE TO ASP DATA CHANGES* to assist in these changes.

If ASP OFC is not "SSP",

- there must be no SCFAM forms where STRUCT CODE FAMILY equals "ASP".
- NATURE OF NBR on all LDIT, MLDIT (5300-3 Record), or RDIT forms (5300-7/8 Record), and NON on all LDIT or RDIT forms must not be entered.
- there must be no SSPANN forms where CUST HDRID or CUST TRLID is entered.

2.149 PSEUDO CARR

Description: Enter the carrier ID that is to be outpulsed in the EA (Equal Access) signaling stream to the SSP. This carrier must also be defined in the Access Tandem as a pseudo carrier.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E6 through 5E11

Valid Entries:

For 5E9(1) and later: 0 - 9999

Data Rules:

If PSEUDO CARR is entered on this form, then it must be defined on the IFC form.

When ASP OFC is "SSP", then a PSEUDO CARRIER must be entered.

For 5E8 and later, PSEUDO CARR must equal CARRIER ID on an ICF form, with the ICF form's FEAT GRP equal to "D".

2.150 ASP ANI

Description: Enter the digits to be used as the ASP (Advanced Services Platform) ANI (Automatic Number Identifier). This ANI is used to distinguish an incoming EAMF/CCS7 trunk call as ASP. It is also used as the ANI II digits on an outgoing EAMF/CCS7 trunk when the SCP does not provide an OST (Originating Station Type) parameter to be outpulsed as the ANI II.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E6 through 5E11

Required Field.

Default: 100

Valid Entries: 00 - 99, but value 100 may be input to represent a "null" ASP ANI.

2.151 MAX CONV

Description: Enter the maximum number of conversations an ASP call is allowed to have, per transaction, with the SCP. (See Division 2, Section 4A on Secured Features for more information.)

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E8 through 5E11

Required Field.

Default: 5

Valid Entries: 1 - 30

Data Rules:

When ASP OFC is "NONE", MAX CONV must be 5.

This parameter is used by the Advanced Services Platform feature, which is a 5E6 and later Secured Feature that must be purchased by the office before the data may be set to a value other than the default. SFID 51 on the SFSYS form (5713 Record) is reserved for Advanced Services Platform and must be set to "S".

2.152 ASP RESP

Description: Enter the ASP (Advanced Services Platform) SCP response timer. This is the number of seconds an ASP call will suspend, waiting for the SCP to respond to the ASP query. When the SCP fails to respond in this specified time interval, the call is routed to reorder.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E6 through 5E11

Required Field.

Default: 3

Valid Entries: 1 - 5

2.153 ORIG NO ANS TIME

Description: Enter the timeout value in seconds for the ASP Originating No Answer Timer. This field supports the ASP BLNA (Busy Line No Answer) secured feature. For more information on this feature see Division 2, Section 4A147.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Valid Entries: 1 - 120 (seconds)

Data Rules:

This field is used by the ASP BLNA and ASP Originating Busy/No Answer Triggers with Extended Ringing secured features. Therefore, before this field can be entered, the ACT field for either SFID 147 or SFID 189 on the SFSYS form (5713-1 Record) must be set to "Y".

2.154 PRE QUERY SCR

Description: Should pre-query screening be ignored for 0+ prefix calls on a line with an Off-Hook Delay trigger? This field supports the ASP Pre-Query Screening for OHD Triggers secured feature. For more information on this feature, see Division 2, Section 4A178.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E10 and 5E11

Default: N

Valid Entries:

Valid PRE QUERY SCR Entries

Entry	Definition
Y	0+ calls will not be part of the pre-query screening.
N	0+ calls will be subject to screening.

Data Rules:

This field supports the ASP Pre-Query Screening for OHD Triggers secured feature and must be purchased before this field can be changed. Therefore, the ACT field for SFID 178 on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be changed.

2.155 ORIG BUSY TRG

Description: Enter the originating busy line trigger number. The trigger number is used to locate the unique network service when the busy line condition is encountered. Population of this field indicates that a query will be launched to an external database. This field supports the ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. For more information on this feature, see Division 2, Section 4A189.

■ **NOTE:** For 5E11, the Recent Change View 8.1 field is ASP BL TRIG NBR.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E11

Default: 1 - 255

Data Rules:

ASP Originating Busy/No Answer Triggers with Extended Ringing is a secured feature. Before ORIG BUSY TRG or ORIG NO ANS TRG can be entered, SFID 189 ACT field on the SFYS form (5713-1 Record) must be set to "Y".

When ORIG BUSY TRG is entered, ORIG BUSY TRG must be defined on an NSTRIG form (5324 Record) as TRIG NBR. On the NSTRIG form, APPLICATION must be "ASP" and AIN REL must equal "R0D1".

2.156 ORIG NO ANS TRG

Description: Enter the originating no answer trigger number. The trigger number is used to locate the unique network service when a no answer condition is encountered. Population of this field indicates that a query will be launched to an external database. This field supports the ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. For more information on this feature, see Division 2, Section 4A189.

■ **NOTE:** For 5E11, the Recent Change View 8.1 field is ASP NA TRIG NBR.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E11.

Default: 1 - 255

Data Rules:

ASP Originating Busy/No Answer Triggers with Extended Ringing is a secured feature. Before ORIG BUSY TRG or ORIG NO ANS TRG can be entered, SFID 189 ACT field on the SFYS form (5713-1 Record) must be set to "Y".

When ORIG NO ANS TRG is entered, ORIG NO ANS TRG must be defined on an NSTRIG form (5324 Record) as TRIG NBR. On the NSTRIG form, APPLICATION must be "ASP" and AIN REL must equal "R0D1".

2.157 INH OFC OBL OOL

Description: Is the ASP office busy line trigger out of LATA inhibited? This field supports the ASP Call Screening for Busy/No Answer Office Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E11

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

The ASP Call Screening for Busy/No Answer Office Triggers is a secured feature. The SFID 212 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

2.158 INH OFC ONA OOL

Description: Is the ASP office no answer trigger out of LATA inhibited? This field supports the ASP Call Screening for Busy/No Answer Office Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A212.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E11

Required Field.

Default: N

Valid Entries: Y,

Data Rules:

The ASP Call Screening for Busy/No Answer Office Triggers is a secured feature. The SFID 212 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field can be set to "Y".

ORIG DAS FOR ASP TRIGGERS

The following fields (Section 2.159 - Section 2.160) define the parameters which support the ASP Multiple Rate Center Support feature. This is a secured feature with SFID 162 and is available for 5E9(1) through 5E11. For more information on this feature, see Division 2, Section 4A162. For 5E12 and later, these fields have been moved to the ASPOPT form (5670 Record). See Division 4, Section 31G.

2.159 ARS FCD CDP

Description: Is the DAS (Digit Analysis Selector) assigned to the originator used after ARS (Automatic Route Selection) FCD (Feature Code Dialing), and CDP (Customized Dialing Plan) triggers? If "Y" is entered the DAS assigned to the originator is used to interpret digits after an ASP query for ARS, FCD, and CDP triggers. If "N" is entered, the SCP DAS is used to interpret digits after an ASP query for ARS, FCD, and CDP triggers.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

SFID 162 on the SFSYS form (5713-1 Record) must have the ACT field set to "Y" before the ARS FCD CDP or OHI OHD TAT field can be set to "Y".

2.160 OHI OHD TAT

Description: Is the DAS (Digit Analysis Selector) assigned to the originator used after OHI (Off-Hook Immediate), OHD (Off-Hook Demand), and TAT (Termination Attempt Triggers) triggers? If "Y" is entered, the DAS assigned to the originator is used to interpret digits after an ASP query for OHI, OHD, and TAT triggers. If "N" is entered the SCP DAS is used to interpret digits after an ASP query for OHI, OHD, and TAT triggers.

NOTE: For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E9(1) through 5E11

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

SFID 162 on the SFSYS form (5713-1 Record) must have the ACT field set to "Y" before the ARS FCD CDP or OHI OHD TAT field can be set to "Y".

ASP IP TIMERS

Available with 5E10 and 5E11 Software Releases, the following fields (Section 2.161 - Section 2.162) are used to set the maximum duration of an STOR connection and the maximum amount of time the switch will wait for the IP (Intelligent Peripheral) to send the Disconnect message. These fields support the AIN SSP Send To Outside Resource (Local) feature. For more information on this feature, see Division 2, Section 4A229. For 5E12 and later, these fields have been moved to the ASPOPT form (5670 Record). See Division 4, Section 31G.

2.161 TSTRC

Description: Enter the STOR (Sent To Outside Resource (Local)) connection time. This field indicates the maximum duration of an STOR connection, as measured from the Connect message received from the IP. 0 indicates no timing.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E10 and 5E11

Required Field.

Default: 06

Valid Entries: 0 - 60 minutes

Data Rules:

Since STOR (Send To Outside Resource (Local)) is a secured feature and must be purchased by the office before STOR data can be assigned, TSTRC must be 06 until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

2.162 TDISC

Description: Enter the STOR (Sent To Outside Resource (Local)) disconnection time. This field indicates the maximum amount of time the switch will wait for the IP to send the Disconnect message after a facility message with a Cancel IP Resource operation is sent from the SSP (Service Switching Point) to the IP.

■ **NOTE:** For 5E12 and later, this field was moved to the ASPOPT form (5670 Record).

Software Release: 5E10 and 5E11

Required Field.

Default: 4.0

Valid Entries: 1.0 - 4.0 (in increments of 0.5)

Data Rules:

Since STOR (Send To Outside Resource (Local)) is a secured feature and must be purchased by the office before STOR data can be assigned, TDISC must be 4.0 until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

INTERNATIONAL OUTBOUND CALL

Available with 5E5 and later Software Releases, traditional 2-stage signaling uses these fields (Section 2.163 - Section 2.164) for international outbound calls. The digits received in the first stage are 011 + PCC or 18X where PCC is the Pseudo Country Code and 18X indicates an international call. Digits received in the second stage are KP + CC + NN + ST or KP + PCC + NN + ST. KP is the MF Start Digit. CC is the Country Code. PCC is the Pseudo Country Code. NN is the National Number. ST is the MF end digit.

2.163 TRAD 2-STAGE PST

Description: This field indicates the maximum time in milliseconds for permanent signal timing during the second stage of a traditional 2-stage international outbound call. At expiration of the timer, the call is torn down.

Software Release: 5E5 and later

Default: 10000 ms

Valid Entries: 5000 - 25000 ms

2.164 TRAD 2-STAGE PDT

Description: This field indicates the maximum time in milliseconds for partial dial timing during the second stage of a traditional 2-stage international outbound call. At expiration of the timer, the call is torn down.

Software Release: 5E5 and later

Default: 20000 ms

Valid Entries: 5000 - 25000 ms

2.165 PROHIBIT DT

Description: Should Prohibit Disconnect Timing idle the MLHG member immediately upon disconnect, rather than applying the normal 10-second disconnect timing? If "Y" is entered, the MLHG will become idle immediately after disconnect. If "N" is entered, the 10-second disconnect timing will be provided for the MLHG member.

NOTE: For 5E5 and later, this field was moved to the IMINFO form (5510 Record).

Required Field.

Default Value: N

Valid Entries: Y, N

Data Rules:

This field pertains to Multi-line Hunt Group members whose LCC is defined on an LCC form with a CLASS OF SERVICE entry of "ATND".

2.166 # RM RTG RSTRCT

Description: The value entered in this field serves as the cornerstone for the 5ODA algorithms that assign hundreds groups to routing modules.

Before selecting a value, refer to Division 3, Section 10 in order to understand the 5ODA algorithms.

If "Y" is entered in this field, then a remote module (ORM, RSM, TRM) can be a routing module for a hundreds group if and only if all the terminations within the hundreds group physically reside within the remote cluster.

If "N" is entered in this field, then a remote module (ORM, RSM, TRM) can be routing module for a hundreds group regardless of where the terminations within the hundreds group physically reside.

Software Release: 5E5 and later

Required Field.

Default: Y

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then this office has Restricted Routing Module Assignment. A Hundreds Group can contain packet switching TNs which have ports on a Remote SM ("RSM", "TRM", or "ORM" is entered in SM USAGE field on the EQIM form). Normally, for a packet routing module in a RESTRICTED office, all of the TNs in the HG (Hundreds Group) must terminate on an SM in the same Remote Cluster (the CLIDs on the EQIM form must match). It is also required that the routing module for packet HGs be an SM with a value in the CONFIGURATION field on the EQIM form which supports packet switching (see the table for Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.) However, if the only SMs in this office which support packet switching are Remote SMs, routing will be provided in the Remote SM which supports Packet Switching. This is equivalent to assigning UNRESTRICTED status to the office (RM RTG RSTRCT = "N") for packet TNs.

• **NOTE:** The default value of "Y" is normally used in order to prevent Remote Modules from containing Routing Data for Local Modules. When a Remote Module is isolated and contains Routing Data for a Local Module, Digit Analysis cannot be completed for any call needing the Routing Data in the Remote Module.

• **NOTE:** Values for the PKT SM are taken from the HGRPAS input form. If HGRPAS form does not have a value in the PKT SM field, a routing assignment is then made algorithmically.

Q931 PROTOCOL OPTIONS

The following field is used to assign Q931 protocol options.

2.167 CAUSE LOC

Description: This field is used to populate the Q.931 Cause and Progress Indicator Information Elements location fields as either "Public network serving the local user" or "Private network serving the local user".

Software Release: 5E6 and later

Required Field.

Default: PUB

Valid Entries:

Valid CAUSE LOC Entries	
Entry	Definition
PUB	A public network serves the local user.
PRIV	A private network serves the local user.

DEFAULT BRI TYPE

The following field is available with 5E6 and later Software Releases. It is used as a default on the RC Views 23.2 and 23.8, when assigning DSL Line Cards.

2.168 # BRI TYPE

Description: This office parameter specifies the default type of DSL line card circuit to be assigned in the office. If a BRI TYPE is not specified on the assignment forms, this field is used as the default on the RC Views 23.2 and 23.8 to indicate the subscriber's NT1 (Network Termination) type. This office parameter is provided to help reduce the number of BRI TYPE entries that need to be specified on assigning a DSL. If the switch has more than one type of BRI line card type, choose the type of BRI line card that is the most prevalent on the switch as the default type to eliminate the greatest number of BRI TYPE entries that need to be made on RC Views 23.2 and 23.8. It is important to assign a subscriber to a line card (equipment number) with the same type as the subscriber's NT1. If the wrong type is assigned, the DSL will not go in service and the subscriber will not get dial tone.

Software Release: 5E6 and later

Required Field.

Valid Entries:

Valid BRI TYPE Entries	
Entry	Definition
TLC	5E4(2) T-card
PULC	5E4(2)Phase 1 U-card
ULC	5E4(2)Phase 2 U-card
AULC	5E6 ANSI Standard U-card
I2TCKT	Software Release: 5E10 and later. ISLU2 TLBD (T-Circuit)
I2UCKT	Software Release: 5E10 and later. ISLU2 ULBD (U-Circuit)

CDMA DTMF

The following fields provide CDMA (Code Division Multiple Access) DTMF (Dual Tone Multi-Frequency) Tone Programmability and are available with 5E13 and later Software Releases. See Division 2, Section 8b for more information.

NOTE: For 5E15 and later, these fields have been moved to the CDMAOPT form (5599 Record).

2.169 OVERRIDE

Description: Do you want to override the CDMA mobile on/off duration?

When this field is "Y", the mobile on/off duration values can be overridden with the provisioned values in the LENGTH ON and LENGTH OFF fields.

When this field is "N", the mobile on/off duration is not overridden.

Software Release: 5E13 and later

Default: N

Valid Entries: Y, N

Data Rules:

When OVERRIDE is "N", LENGTH ON must not be entered.

When OVERRIDE is "N", LENGTH OFF must not be entered.

When OVERRIDE is "Y", LENGTH ON must be entered.

2.170 LENGTH ON

Description: The LENGTH ON field is used to indicate the Dual Tone Multi-Frequency on duration, in milliseconds, for CDMA.

Software Release: 5E13 and later

Valid Entries: 100, 150, 200, 250, 300, 350 or blank

2.171 LENTGH OFF

Description: The LENGTH OFF field is used to indicate the Dual Tone Multi-Frequency off duration, in milliseconds, for CDMA

Software Release: 5E13 and later

Valid Entries: 50, 100, 150, 200 or blank

PERFORMANCE MONITORING

The following fields (Section 2.172 - Section 2.176) apply to the PM alerting function. Performance monitoring alerting, which is available with 5E6 and later Software Releases, is the ability to collect and report performance data for TIDI U-BRIs (U-interface BRIs). The operating company has the ability to inhibit and allow the setting and reporting of performance monitoring alerting thresholds. The U-BRI provides two, 64 Kbps (kilo-bits per second) B-channels for circuit-switched voice, circuit-switched data or packet switched data calls; and one 16 Kbps D-channel for signaling or packet-switched data over a single, non-loaded pair of wires. (For more information concerning PM alerting and the U-interface BRI, see the PMTHRESH form (5948 Record)). Three of the following fields, PM TIME, MAX NO THR GRPS,

and FAC PM ENABLE, are also used for performance monitoring on a DFI (Digital Facility Interface), an IDCUC (Integrated Digital Carrier Unit), and a DNU-S (Digital Networking Unit - SONET). See Division 5, Section 5L for performance monitoring for the DNU-S.

2.172 DSL PM ENABLE

Description: Should performance monitoring alerting be enabled for office DSLs? This office parameter is used to indicate if layer 1 performance monitoring alerting is turned on or off on the entire switch. (See the PMTHRESH form (5948 Record) for more information on performance monitoring alerting).

Software Release: 5E6 and later. Required Field.

Default: Y

Valid Entries: Y, N

2.173 REPORT INT

Description: Specify the interval at which PM interval reports are generated for the switch office.

Software Release: 5E6 and later

Required Field.

Default: 1

Valid Entries: 1, 2, 3, 4, 6, 8, 12 and 24 hour(s).

2.174 CRC SES RATE

Description: Specify the number of Cyclic Redundancy Code errors allowed before a SES (Severely Errored Second) is incremented in an ANSI U-Card.

Software Release: 5E6 and later
Required Field.
Default: 3
Valid Entries: 1 - 10

2.175 MAX NO THR GRPS

Description: Enter the maximum number of Performance Monitoring groups allowed for this office.

Software Release: 5E6 and later
Required Field.
Default: 256
Valid Entries: 0 - 65535

Data Rules:

For 5E7 and later, the total number of PM forms, which is the sum of the number of PMTHRESH forms and the number of DNUPM forms, must not exceed the entry in this field.

2.176 PM TIME

Description: The PM TIME field specifies the hour at which ALE and performance monitoring reports will be generated daily. For DFI, IDCU, and DNU-S, this field specifies the start hour for the 24-hour collection interval.

Software Release: 5E6 and later
Required Field.
Default: 0
Valid Entries: 0 - 23; where 0 is 12 midnight.

2.177 BPV SES RATE

Description: Enter the number of BPVs (Bipolar Violations) that can occur before a DS1 SES (Severely Errored Second) is declared. (See the PMTHRESH form (5948 Record) for more information on performance monitoring alerting.)

Software Release: 5E8 and later
Default: 307 (SES)
Valid Entries: 1 - 334 (SES)

2.178 FAC PM ENABLE

Description: Should PM (Performance Monitoring) alerting be enabled for switch facilities for DFI, IDCU, and DNU-S. See the PMTHRESH form (5948 Record) for more information on performance monitoring alerting. See also Division 5, Section 5L for DNU-S performance monitoring data.

Software Release: 5E8 and later
Default: Y
Valid Entries: Y, N

MISMATCH DETECTION

The following fields (Section 2.179 - Section 2.180) are used to support the ANSI U-interface BRI (Basic Rate

Interface) available with 5E6 and later Software Releases.

2.179 ENABLE

Description: Is U-BRI NT (Network Termination) automatic mismatch detection activated for the switch?

Software Release: 5E6 and later

Required Field.

Default: Y

Valid Entries: Y, N

2.180 REPORT

Description: Should an output message be generated when a mismatch is detected between the NT and the U-BRI in the ISLU?

Software Release: 5E6 and later

Required Field.

Default: N

Valid Entries: Y, N

ISUP

The following fields (Section 2.181 - Section 2.182) are available with 5E6 and later Software Releases. They support timing control functions in CCS7 network interconnect between Local Exchange and InterLATA Carriers.

2.181 CRA TIMER

Description: This field is the Circuit Reservation Acknowledgement Timer. It indicates the elapsed time (seconds) an originating toll office will wait for an IAM (Initial Address Message) after sending a Circuit Reservation Acknowledgement message to the Originating Access Tandem.

Software Release: 5E6 and later

Required Field.

Default: 25

Valid Entries: 20 - 25 seconds

2.182 EXM D TIMER

Description: This field is the ISUP exit message delay timer. It provides a delay to ensure that glare or blocking is not encountered on the outgoing trunk to an Originating Toll Office. When the timer expires, the Originating Access Tandem sends an Exit Message to the End Office.

Software Release: 5E6 and later

Required Field.

Default: 300 ms

Valid Entries: 100 - 1200; in 100 ms intervals.

2.183 BUSY ANNC

Description: Should the terminating exchange send busy tone to the originating exchange when the called party is busy?

A terminating exchange determines whether the called party interface is busy prior to performing circuit allocation. If the called party interface is busy, the office must either (1) return a Release Message (REL) with a cause of user busy (17), or (2) provide busy tone.

The ISUP Busy Play Announcement (BUSY ANNC) is checked by the operational software during call failures in which the called party is busy and the call route consists of ISUP protocol trunks interworked to other signal protocol trunks.

If "Y" is entered a busy tone should be provided to the originating exchange. If "N" is entered a Release Message should be sent to the originating exchange.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

2.184 LEC ANNC

Description: If the call cannot be routed for failure conditions, other than those associated with called party screening, should the terminating exchange send a busy tone to the originating exchange?

If "N" is entered, a CCS7 Release Message will be sent to the originating switch instead of busy tone.

These options are for treatment of Vacant Code, No Circuit Announcement, and Reorder.

The options in this field do not apply to called party screening failures, which include the following CCS7 Release Messages: destination out of order (27), number changed (22), unallocated number (1), user busy (17), no user responding (18), call rejected (21), or bearer capability not implemented (65).

If a failure event other than what is listed above occurs, the switch software must determine whether to send a Release Message or provide an appropriate tone or announcement.

The value entered in this field will be checked at Local Exchanges by the operational software for call failures that consist of the following:

- the call originates from a non-ISDN interface.
- the call is of type, 3.1kHz audio or speech.
- the call route consists of only ISUP trunks.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

2.185 LEC IW REL

Description: Is an ISUP Local Exchange Carrier Interworking Release message provided to the previous exchange when a failure occurs on an ISUP trunk in the LEC network? This only applies to non-ISDN access calls which have not used ISUP trunks exclusively over the full call completion path.

"Y" indicates that a Release message will be sent. "N" indicates that a tone/announcement will be provided to

the preceding exchange.

These options are for treatment of Vacant Code, No Circuit Announcement, and Reorder.

The options in this field do not apply to called party screening failures, which include the following CCS7 Release Messages: destination out of order (27), number changed (22), unallocated number (1), user busy (17), no user responding (18), call rejected (21), or bearer capability not implemented (65).

The value entered in this field will be checked at Local Exchanges by the operational software for call failures that consist of the following:

- the call originates from a non-ISDN interface.
- the call is of type, 3.1kHz audio or speech.
- the call route consists of a combination of ISUP trunks interworked to other protocol trunks (e.g., MF).

Software Release: 5E7 and later

Required Field.

Default: N

Valid Entries: Y, N

2.186 BLANK NBR REL

Description: Is the Release with Cause Code Value 1 for Vacant Numbers feature active for this office? For more information on this feature, see Division 2, Section 1BU.

NOTE: This feature is intended for use in Canada only. There is no expectation at this time that this feature will be used in the U.S., and it is not recommended that this feature be turned on in U.S. switches.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.187 RCD 3PT1 ITC

Description: Recode 3PT1kHz Information Transfer. Enter the bearer capability (speech or 3.1kHz), which is the information transfer capability when referring to the specific rate of communication, or the user service information when referring to user-specified information. See Division(2 Section 1W for more information on Recode 3.1kHz Audio feature.)

This field is used to determine the bearer capability under the following conditions:

- the call has a bearer capability of 3.1kHz audio;
- the call is about to be routed out over an ISUP trunk;
- the office processing the call is either a local tandem which received the call via an incoming inband signaling speech trunk or an originating end office serving a non-ISDN origination;
- the per trunk group indicator, RCD 3PT1 ITC on the TRKGRP form (5202 Record), is blank.

(See Division 2, Section 1W, *CCS7 ISDN-UP Enhancements* for more information.)

Software Release: 5E8 and later

Required Field.

Default: SPEECH

Valid Entries:

Valid RCD 3PT1 ITC Entries	
Entry	Definition
SPEECH	Recode the bearer capability to "speech".
3PT1KHZ	Send out bearer capability as "3.1kHz audio" without modification.

Data Rules:

This field should not be set to "3PT1KHZ" until the following conditions are met:

1. all far switches have implemented the rule that the value of the USI parameter is either controlled by the trunk group parameter (if not set to "null"), or the switch parameter;
2. the transmission facilities to all far switches are capable of handling calls with a bearer capability of 3.1kHz audio; and
3. the software at all far switches is capable of handling calls with a bearer capability of 3.1kHz audio.

These checks are not made by the software; therefore, the craft personnel should make these checks before changing this global office parameter to "3PT1KHZ".

If this is a switch owner toll office, then RCD 3PT1 ITC must be "3PT1KHZ".

2.188 CICP BLOCK

Description: Should the ISUP Carrier Identification Code Parameter be blocked? This field is used by the Carrier Identification Code Parameter secured feature, which must be purchased by the office before this field can be set to "Y". For more information on this feature, see Division 2, Section 4A9.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the SFID 009 ACT field on the SFSYS form (5713-1 Record) must be set to "Y".

2.189 ISUP APN DAS

Description: Proprietary field.

2.190 IAM CRM PRIOR

The IAM CRM PRIOR (Initial Address Message and Circuit Reservation Message Priority) field is used as an indicator for SS7 ISUP to mark the priority for IAMs and CRMs. When set to 1, all outgoing IAMs and CRMs (regardless of type) are set to the standard priority of 1. If set to 0, all GETS (Government Emergency

Telecommunications Service) and MLPP (Multi-Level Precedence and Preemption) non-routine IAMs and CRMs have outgoing priority equal to 1; all other types of calls (including routine MLPP calls) have their priority lowered to 0. For more information, see Division 2, Section 4A279.

Required Field.

2.191 OFC OLI

Description: Proprietary field.

ON-LINE OFFICE RECORDS

The ON-LINE OFFICE RECORDS entries are associated with office records which are changed via the RC/V (Recent Change/Verify) system. The information that is printed is that found on the Records 5100-1/2/3, 5105-1/2, 5109-1/2, 5110-1/2, 5111-1/2 and 5171-1/2. This information will be automatically printed on-line at the office based on the options assigned in fields (Section 2.192 - Section 2.195).

2.192 ENABLED?

Description: Should office records which are changed via the RC/V (Recent Change/Verify) system be automatically printed on-line at the office?

Default: N

Valid Entries: Y, N

2.193 START HOUR

Description: Enter the hour of the day when the office records should begin printing on-line at the office.

Default: 23

Valid Entries: 0 - 23; where 0 is midnight.

2.194 DURATION

Description: Enter the duration in hours that will be allowed for the printing of the on-line office records.

Default: 4

Valid Entries: 0 - 24 hours

2.195 SUN THROUGH SAT

Description: For each day of the week, Sunday through Saturday, should the on-line office records be printed automatically?

Valid Entries: Y, N

HOME INTERCOM

Available with 5E6 and later Software Releases, the following fields (Section 2.196 - Section 2.198) are parameters used by the Home Intercom feature.

2.196 MAX RING TIME

Description: This field indicates the maximum amount of time a phone may ring before it must be picked up during Home Intercom activation.

Software Release: 5E6 and later
Required Field.
Default: 180 seconds
Valid Entries: 30 - 300 seconds

2.197 MAX HOLD TIME

Description: This field indicates the maximum amount of time an outside call may be put on hold during the Home Intercom Dialable Hold feature.

Software Release: 5E6 and later
Required Field.
Default: 180 seconds
Valid Entries: 30 - 32767 seconds

2.198 MAX TALK TIME

Description: This field indicates the maximum amount of time extensions on the same line may talk during Home Intercom Basic, Intercom Code Dialing, Selective Intercom Dialing, Selective Call Transfer (only during private conference when outside party disconnects).

Software Release: 5E6 and later
Required Field.
Default: 10
Valid Entries: 1 - 1440 minutes

SERIES COMPLETION

The following field is Recent Change only. It is used to remove back links for Series Completion.

2.199 DEL BCK LNK

Description: This is a Recent Change only field. This field indicates if error messages will occur when attempting to delete a directory number that is a member of a series completion linked list, i.e. when BCK LNK is "Y".

If "Y" is entered, no error message will occur and the series completion back links will be removed automatically when the DN is deleted. This will also remove the DN from the series completion field on all other TNs (multiple lines series complete to the same line.)

If "N" is entered, an error message will occur when attempting to delete a DN that is a member of a series completion linked list. The craft will need to enter the update mode in Recent Change and set the BCK LNK field on the associated Recent Change View (e.g. view 1.1, 23.2, 23.8) to "N" (removes back links) before the TN can be removed.

Software Release: 5E6 and later

PER CALL TEST FAILURE

The following field is a Recent Change only. It is used for PCTF (Per Call Test Failure) Reports.

2.200 PCTF INT

Description: This is a Recent Change only field. This field is used to indicate the time interval between PCTF summary reports. The report will be generated automatically based on the value stored in this field.

Software Release: 5E6 and later

SLC96 T1 FACILITIES

The following field is available with 5E6 and later Software Releases. It is used to optionally monitor the status of SLC96 T1 Facilities.

2.201 # OFF NORMAL

Description: Should the SM status indicator be updated when SLC-96 T1 facilities are off normal?

If "Y" is entered and the SLC96 T1 facility is on protection, the SM status indicator will be updated to "RT PLS". If the facility is out of service, the SM status indicator will be set to "CKT OOS".

If "N" is entered, the SM status indicator will not be affected.

Software Release: 5E6 and later

Required Field.

Valid Entries: Y, N

ISVM OPTION

The ISVM TCAP TIMER field was added with the Inter-Switch Voice Messaging feature. This feature is described in Division 2 Section 5 of the TG.

2.202 ISVM TCAP TIMER

Description: Inter-Switch Voice Messaging TCAP (Transaction Capabilities Application Part) timer. An entry in this field represents the timeout value for ISVM TCAP Message.

Software Release: 5E7 and later.

Default: 3

Valid Entries: 1 - 10 seconds.

REMOTE DIGITAL TEST ACCESS

The following fields (Section 2.203 - Section 2.208) are used to set up an RDTA (Remote Digital Test Access) connection on an ISDN line or trunk. With this feature (also referred to as RPA [Remote Protocol Access]), a craft at a Customer Service Center can access customer BRIs, PRIs, packet trunks, or CCS7 ISUP trunks and troubleshoot problems. Refer to the RPA feature description in Division 2, Section 5F for more information on this feature.

2.203 RDTA SCRIN IDX

Description: Enter the Screening Index (used by RDTA during digit analysis) to translate a TN for a 56Kbps or 64Kbps data call.

Software Release: 5E7 and later

Valid Entries: 1 - 4095

Data Rules:

If at least one RDTAPORT (5909 Record) or RDTATN (5910 Record) is entered for this office, then RDTA SCRN IDX must be entered.

If RDTA SCRN IDX is entered then RDTA DAS must be entered. For 5E8 and later, all combinations of CODE INDEX from one or more RDIT forms, and RDTA SCRN IDX must have corresponding RAR form (5301 Record) entries for CDI and SCR.

2.204 RDTA DAS

Description: Enter the Digit Analysis Selector (to be used in digit analysis) that translates a DN from an input TTY message for RDTA.

Software Release: 5E7 and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

RDTA DAS must be entered if a RDTAPORT form (5909 Record) or RDTATN form (5910 Record) is entered for this office.

If RDTA DAS is entered, RDTA SCRN IDX must be entered.

The RDTA DAS entered must be defined on a DAS form (5300 Record) with the LINE DAS information entered. The LDIT defined on the DAS form should be entered on a SMLDIT form (5315 Record) and assigned to all the LOADED SMs as well as standard SMs in the office. A loaded SM is defined on a EQIM form with CONFIGURATION equal to "LOADED".

The LDIT defined on the DAS form must be defined on an LDIT form with CODE INDEX or CDI entered. All combinations of RDTA SCRN IDX (entered on this form) and CODE INDEXs or CDIs (entered on the corresponding LDIT forms) must be entered on the RAR form.

2.205 RDTA RAX

Description: This field indicates the rate center for the routing and charging for ROTL, CTTU, IMLT2, and remote TLWS connection appraisal calls.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RDTA RAX, or 1 - 999

Data Rules:

RDTA RAX must not be entered when RDTA SCRN IDX is not entered.

2.206 RDTA CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RDTA CODE RESTRICT, or 1 - 125

Data Rules:

When RDTA SCRIN IDX is not entered, RDTA CODE RESTRICT must be zero or must not be entered.

2.207 BRI MAX SESSION

Description: Enter the maximum number of simultaneous RPA BRI sessions allowed for any SM in this office.

Software Release: 5E7 and later

Valid Entries: 1 - 15

Data Rules:

If BRI MAX SESSION is entered, RDTA SCRIN IDX and RDTA DAS must be entered.

2.208 RDTA PIC

Description: Enter the Remote Digital Terminal Access PIC (Primary Inter-Exchange Carrier).

Software Release: 5E9(1) and later.

Valid Entries: 0 - 9999

Data Rules:

RDTA DAS must be entered when RDTA PIC is entered.

For 5E14 and later, when the RDTA PIC is entered on the OFCOPT form, a corresponding ICF form must be entered where the RDTA PIC from the OFCOPT form is equal to a CARRIER ID from the ICF form with FEAT GRP equal to "D".

911

The following field (Section 2.209) is used for B911 and E911 service.

2.209 TIMING DELAY

Description: This field defines the digit analysis timing delay for a 911 call. After a caller dials 911, or any other digits designated to receive 911 treatment, the switch waits the specified number of seconds before it considers the dialing complete. If the caller enters additional digits during the delay period, the switch will report a dialing error.

The TIMING DELAY field is used for both B911 and E911 calls. If left blank, no timing delay will be applied.

Software Release: 5E7 and later

Default: 0

Valid Entries: 0 - 3 (seconds)

ENHANCED 911

The following fields (Section 2.210 - Section 2.218) apply to the E911 feature available with 5E7 and later Software Releases. For information about E911, see Division 2, Section 1BD.

2.210 E911 OPTION

Description: The E911 OPTION field specifies what type of E911 processing the switch supports.

Software Release: 5E7 and later

Default: INACTIVE

Valid Entries:

Valid E911 OPTION Entries	
Entry	Definition
INACTIVE	The switch does not have E911 processing capabilities.
ESA	The switch can process E911 calls and has the ability to query the ESA (E911 Service Adjunct) for selective routing information.
NONESA	The switch can process E911 calls but does not have the ability to query the ESA for selective routing information.

Data Rules:

If E911 OPTION is "ESA", one and only one DSLAP form (5963 Record) must be entered with E911 SITE set to "Y".

If "ESA" or "NONESA" is entered, then the following fields must be entered:

- E911 DAS
- E911 LN SFG
- E911 SCR
- E911 TRK SFG

If E911 OPTION is "ESA" or "NONESA", there must be an ESN form (5540 Record) with SM entered and DAS blank for each SM on the EQIM form where EQSTATUS is operational, "O". Also, a TNTYP form (5504 Record) must be defined with TONE TYPE set to "HIGH120".

2.211 E911 DAS

Description: The E911 DAS specifies the Digit Analysis Selector that will be used to translate telephone numbers stored in E911 data. Telephone numbers translated by this DAS include primary and alternate PSAP (Public Safety Answering Point) TNs, selective transfer TNs, and PSAP reroute TNs. PSAP and selective transfer TNs are specified in ESN forms (5540 Record); PSAP reroute TNs are specified in TKGRP forms.

Software Release: 5E7 and later

Valid Entries:

- For 5E14 and earlier: 1 - 99
- For 5E15 and later: 1 - 254

Data Rules:

When E911 OPTION is "ESA" or "NONESA", the E911 DAS must be entered and must be defined on a DAS form (5300-1 Record).

If E911 DAS is entered, the LDIT associated with the DAS must be distributed to all SMs in the office. Either the LINE DAS LOCAL DIT or TRUNK DAS LOCAL DIT on the DAS form must be specified on an SMLDIT form (5315 Record) where every operational SM, defined on EQIM forms (5700-1/2 Record) with EQSTATUS

set to "O", is specified in the LIST OF SWITCHING MODULES.

If E911 DAS is entered, the LDIT associated with the DAS must not have a packet routing CI TYPE of "PSNCI" or "PSCAR".

2.212 E911 SCR

Description: The E911 SCR field specifies the screening index used to route to telephone numbers stored in the E911 data. It is used in conjunction with the E911 DAS to route to primary and alternate PSAP (Public Safety Answering Point) TNs, selective transfer TNs, and to PSAP reroute TNs. PSAP and selective transfer TNs are specified in ESN forms (5540 Record); PSAP reroute TNs are specified in TKGRP forms.

Software Release: 5E7 and later

Valid Entries: 1 - 4095

Data Rules:

A value must be entered in this field if E911 OPTION is "ESA" or "NONESA".

2.213 E911 LN SFG

Description: This field specifies the E911 Line SFG (Simulated Facilities Group) which will restrict the number of 911 calls allowed to simultaneously terminate at E911 PSAPs. The Line SFG restricts only those calls that originate from lines or from PBX trunks (E911 TYPE set to "PBXNONDED" on the TKGRP form). 911 calls will receive reorder treatment when they originate from these sources and the SFG limit (defined on the corresponding PFASFG form) has been reached.

Software Release: 5E7 and later

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

If E911 OPTION is "ESA" or "NONESA", E911 LN SFG must be entered and must be defined on a PFASFG form (5609-3 Record) with an associated SFG TYPE of "E911LNE".

2.214 E911 TRK SFG

Description: This field specifies the E911 TRK SFG (Trunk Simulated Facilities Group) which will restrict the number of 911 calls routed to E911 PSAPs when the calls originate from trunk groups with E911 TYPE set to "NONDED".

Software Release: 5E7 and later

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

If E911 OPTION is "ESA" or "NONESA", E911 TRK SFG must be entered and must be defined on a PFASFG form with an associated SFG TYPE of "E911TRK".

2.215 PRIM E911 APID

Description: This field displays the primary APID (Application Processor ID) used as a link to the ESA. It is a Recent Change Verify only field. This field is populated from the 24.7 view. This parameter is used to identify the primary E911 ESA. There can be only one instance of PRIM E911 SITE being set to "Y".

Software Release: 5E7 and later

2.216 SEC E911 APID

Description: This field is a Recent Change Verify only field. This global parameter is used by the Dual ESA for E911 secured feature to identify the backup E911 AP (Applications Processor), which is also known as an ESA (Emergency Services Adjunct). This field is populated from the 24.7 view. If the SEC E911 SITE field is set to "Y", then this parameter should be set to the "APID" on that view. There can only be one instance of SEC E911 SITE being set to "Y".

Software Release: 5E8 and later

2.217 ESA SW TIME

Description: Enter the hour of the day (military time) to automatically switch the active and inactive ESAs (Emergency Services Adjuncts). This field is used by the Dual ESA for E911 Enhancements secured feature. It is a secured feature and must be purchased by the office before this field can be changed from the default value. For more information on this feature, see Division 2, Section 4A141.

If 0 is entered, then no switch occurs. An entry of 24 indicates midnight.

Software Release: 5E9(1) and later.

Required Field.

Default: 0

Valid Entries: 0 - 24 (military time)

Data Rules:

For any entry other than 0, the SFID 141 ACT field must be set to "Y" on the SFSYS form (5713-1 Record).

2.218 E911 CESID

Description: Enter the E911 Customer Emergency Service Identification. This field is associated with the CPN Delivery on E911 Calls secured feature; it specifies on a per office basis whether the BN (Billing Directory Number) or the CPN (Calling Party Number) will be used for ESA (E911 Service Adjunct) queries, PSAP (Public Safety Answering Point) displays, and ALI/DMS (Automatic Location Information / Data Management System) look-ups. For more information about this field, see Division 2, Section 4A116, which describes the secured feature.

Software Release: 5E8 and later.

Required Field.

Default: BN

Valid Entries:

Valid E911 CESID Entries	
Entry	Definition
BN or B	Billing number
CPN or C	Calling party number

Data Rules:

E911 CESID can be set to "CPN" only if the secured feature is purchased (SFID 116 ACT is "Y" on the SFSYS form (5713-1 Record)); otherwise, it must be set to "BN".

2.219 E911 RAX

Description: This field contains the RAX for routing and charging of Enhanced 911 calls.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no E911 RAX, or 1 - 999

Data Rules:

When E911 SCR is not entered, E911 RAX also must not be entered.

2.220 E911 CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no E911 CODE RESTRICT, or 1 - 125

Data Rules:

When E911 SCR is not entered, E911 CODE RESTRICT must also not be entered.

OUTBOUND SERVICES

The following field defines the parameter for Alternate Signal Switching Modules.

2.221 ALT SIG SM

Description: Alternate Signal Switching Module.

NOTE: This field is not enterable pending future development.

OFFICE EQUIPMENT

The following field defines a parameter for the OE (Office Equipment).

2.222 OE SIZE

Description: This field is used to specify whether an office supports either an 8- or 10-digit OE number for IDCU port assignments. If the RTs (Remote Terminals) to be provisioned are to have a capacity of more than 99 lines, a 10-digit OE number is required.

The OE SIZE field dictates the OE TYPE field for all IDCU equipment.

For 5E9(2) and earlier, if an IDCU remote terminal or PUB43801 is to be provisioned, the same OE TYPE of either "G" (10-digit) or "M" (8-digit) must be assigned on all assignment forms:

DSL (5907 Record)

DSLUSR (5908 Record)

LINE (5109 Record)

MISLINK
 MLHLN (5111 Record)
 NAILUP (5207 Record)
 TRUNK (5204 Record)

- **NOTE:** All OE Types of "M" or "G" in an office must correspond with the OFCOPT form OE SIZE field and only one OE Type is allowed in an office (either "G" or "M").

Software Release: 5E8 and later
 Required Field.
 Default: 8
 Valid Entries: 8 or 10

- **NOTE:** When an existing 5ESS Switch office is converted from an 8-digit OE ("M") to a 10-digit OE ("G"), all future IDCU OEs (TR303, TR08, or PUBs) entered must be in the new 10-digit OE format. Any attempt to enter an 8-digit ("M") format will be rejected.

The OE format is:

- 8-digit "M":
 XXXYZZLL, where
 XXX = SM
 Y = Unit Number
 ZZ = Remote Terminal
 LL = Line
- 10-digit "G":
 XXXYZZLLLL, where
 XXX = SM
 Y = Unit Number
 ZZ = Remote Terminal
 LLLL = Line

Conversion from an 8- to 10-digit OE is performed on Recent Change View 8.1. In order to avoid error conditions as a result of OE conversions, care must be taken to ensure that OE conversions are coordinated to assure that affected personnel are apprised of the impact of an 8-digit to 10-digit OE conversion.

Data Rules:

All IDCU equipment in an office must use the same OE TYPE.

If RT LINE SIZE on the RTERM form (5174-1/2/3/4 Record) is greater than 99, OE SIZE must be set to 10.

INDIV DIALING PLAN

The following field defines an IDP (Individualized Dialing Plan) parameter.

2.223 IDP DESEP

Description: Enter the IDP (Individualized Dialing Plan) Destination Separation Class for IDP dial codes. When IDP digit analysis identifies that an IDP dial code has been dialed, the value of this field is assigned to the route request message. All IDP dial codes are given this value, regardless of which IDP group the dial codes are defined in.

Software Release: 5E8 and later

Valid Entries: 1 - 255

Data Rules:

If a DESEP is entered, it must be defined on the Traffic Separation Cell Grouping TRFSEP form (5308 Record).

DESEP 0 is used whenever DESEP is not provided by digit analysis, line, or trunk translations. DESEP 63 is used by the Switch for calls that are not applicable to DOR (Division of Revenue). The values of 0 and 63 should not be assigned. See Division 2, Section 1B.

ASI PROXY

Field Section 2.224 refers to the ASI (Advanced Service Interface) Proxy feature.

2.224 ASI ON

Description: Is the ASI Proxy traffic enabled?

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

ASI Proxy is a secured feature and must be purchased by the office before the default value for this field can be changed. An SFSYS form must exist with SFID 93 set to "S" for ASI ON to equal "Y".

ESSENTIAL SERVICE PROTECT

The following field defines the office parameter for ESP (Essential Service Protection).

2.225 ESP NORM ALW

Description: Is Essential Service Protection normally allowed? This office parameter is used by the ESP Back-lighting feature. This field defines how the off-normal condition for ESP (Essential Service Protection) is displayed on the MCC. A value of "N" indicates that the off-normal condition for ESP is allowed and the normal condition is inhibited. A value of "Y" indicates that the off-normal condition for ESP is inhibited and the normal condition is allowed. When ESP is allowed, an indicator on the MCC page 109 (OVERLOAD) is back-lighted with yellow and the OVERLOAD indicator in the SSA (Summary Status Area) is back-lighted with

blue indicating an OFF-NORMAL condition.

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

SSP 800

The following fields (Section 2.226 - Section 2.227) define the office parameters for Advanced Service Platform and Service Switching Point 800 calls.

2.226 INH SCP NPA DEL

Description: Should deleting the NPA code from the routing DN returned from the SCP be inhibited? This office parameter is used for ASP (Advanced Services Platform) and SSP (Service Switching Point) 800 calls to indicate if the deleting of the NPA should be inhibited for the routing DN returned from the SCP (Service Control Point) database. At an SSP office a query is made to an external SCP database to obtain routing information necessary to complete the call. The NPA deletion is done before invoking digit analysis on the returned routing DN.

Software Release: 5E6 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.227 SCP 800 DAS

Description: Enter the DAS for retranslating the routing DN returned from the SCP. If the originator's DAS is not desired, this office parameter is used as the DAS (Digit Analysis Selector) for retranslating SSP (Service Switching Point) 800 calls after querying the external SCP (Service Control Point) database. At an SSP office, a query is made to an external SCP database to obtain routing information necessary to complete the call. This parameter is used to indicate where translations should begin in digit analysis for routing numbers that are returned from the SCP database. If this field is not entered, SCP 800 DAS will not be used for retranslating returned routing numbers; the originator's DAS will be used, except for the case where 800 calls are made via ASP. Then,

For 5E9(1) and later, the line DAS will be used as the originator's DAS since the ASP DAS no longer exists.

Software Release: 5E6 and later.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

For 5E9(1) and later, the SCP 800 DAS must be defined in the DIGIT ANALYSIS SELECTOR field on a DAS form (5300-1 Record).

MDII

The following fields (Section 2.228 - Section 2.230) define the office parameters for the Excessive MDII Alarm feature. For more information on this feature, see Division 2, Section 4C6.

2.228 MDII INTERVAL

Description: Enter the time interval, in minutes, to be used for counting the number of MDII (Machine Detected Interoffice Irregularities) which must be reached to generate an alarm. A value of 0 indicates that an alarm will not be generated.

Software Release: 5E6 and later.

Default: 0

Valid Entries: 0 - 127 (minutes)

2.229 MDII THRESHOLD

Description: Enter the MDII count threshold that must be exceeded to generate an alarm.

Software Release: 5E6 and later.

Default: 20

Valid Entries: 1 - 255

2.230 MDII MJR ALARM

Description: Should an MDII major alarm be generated? This field indicates whether a major or minor alarm is generated when the MDII threshold is exceeded within the specified time interval. "N" indicates a minor alarm should be generated.

Software Release: 5E6 and later.

Default: N

Valid Entries: Y, N

FEATURE GROUP D

Fields Section 2.231 - Section 2.232 refer to Feature Group D.

2.231 FGD PHASE

Description: Enter the Feature Group D phase for the office.

▲ **WARNING:** This field controls the ODP translation of CAC codes. Use of "POSTPHASE" will turn off 5-digit CACs. See Division 2, Section 1BI for more information on FGD CACs.

Software Release: 5E9(1) and later

Required Field.

Default: PREPHASE

Valid Entries:

Valid FGD PHASE Entries	
Entry	Definition
PREPHASE or PR	Ordinary subscribers are allowed to dial the 10XXX CAC. Test lines will have the capability to dial the expanded CAC and be routed to the proper carrier. This phase does not impact dialing of 950 calls or any other features.
PERMPHASE or PE	Ordinary subscribers are allowed to dial either the 10XXX or the 101XXXX CAC on a call by call basis. This phase does not impact dialing of 950 calls or any other features.

POSTPHASE or PO	Ordinary subscribers are allowed to dial only the 101XXXX CAC. This phase does not impact dialing of 950 calls or any other features.

Data Rules:

If FGD PHASE equals "POSTPHASE", exactly one FIXRT form must exist with FIXED ROUTE TYPE set to "INVCAC"

2.232 TCAP CIC

Description: Will this office accept an expanded TCAP CIC (Carrier Identification Code)? The value of this field indicates to the SCP whether or not the SSP is capable of handling a four-digit CIC. A value of "Y" means that a 4-digit CIC is used; "N" means that the 3-digit CIC is still being used. For ASP queries, this field only applies to ASP Release 0.0. The ASP 0.1 (5E9(1)) protocol does not support this parameter.

Software Release: 5E9(1) and later

Required Field.

Default: N

Valid Entries: Y, N

SPEECH ROUTING

Field Section 2.233 refers to trunks with speech treatments.

2.233 SPEECH TRK GRPS

Description: This is a Recent Change / Verify only field on the 8.1 view which displays the number of trunk groups in the office which have speech treatments applied to them. Trunk groups which have speech treatments have the SPEECH TRMTS field set to "Y" on the TKGRP form, view 5.1 For more information on the Routing Based on Bearer feature, see Division 2, Section 1W on CCS7 IDSN UP (User Part) Enhancements.

Software Release: 5E9(1) and later

NETWORK RELEASE

The following field (Section 2.234) defines Software Releases for switches networked with the switch in this office.

2.234 OLDEST RELEASE

Description: The entry in this field indicates the oldest Software Release which is currently being run on any switch which is networked with the switch in this office. Some features require that every switch that communicates with the switch in this office be on the same or later Software Release. These features look at this parameter to determine when the feature can be active on the network and therefore active on this switch. These features cannot be active on this switch until this parameter indicates that all switches on the network are operating at the minimum Software Release needed to support the feature. This minimum Software Release level is referred to as the "Activation Level". As long as the entry in this field is greater than or equal to the feature's "Activation Level", the feature can safely be active on the network. Some optional features may also have a feature activation field which will not apply until after the "Activation Level" has been satisfied. If coordination is necessary, all switches on the network may update this field at the same time during periods of low call traffic.

The first one (or two) digits indicate the Software Release. The last two digits indicate the Software Update level within the current Software Release. This is an arbitrary designation and does not necessarily correspond to the actual number of Software Updates distributed to the field.

For example:

901 is entered for the first Software Release for 5E9(1). Later Software Updates in 5E9(1) which require network coordination would be represented by 902, 903, etc.

This field does not need to be updated unless it is required by a certain feature within that release.

NOTE: Decreasing the value of this field could deactivate some features on the switch which are currently active. Increasing the value of this field by more than one will activate features for this value and features for the values that were skipped.

The following table lists features which use this field to determine when they are allowed to be active in the network. The activation level is the minimum software release level the network must be on before the feature can be active.

NETWORK	FEATURE	ACTIVATION LEVEL
FTS2000	INPA	901

Software Release: 5E9(1) and later.

Valid Entries: 1 - 9999

CKT SWITCHED TRUNK

The following field describes an office parameter for Circuit Switched Trunks.

2.235 CST DAS

Description: Enter the circuit switched trunk digit analysis selector.

Software Release: 5E8 and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

USTWC

The following fields (Section 2.236 - Section 2.239) define the parameters for the Usage-Sensitive 3-Way Calling feature. The fields also define parameters for the Spontaneous Usage-Sensitive 3-Way Calling feature.

2.236 USTWC FEAT

Description: Enter the Usage-Sensitive 3-Way Calling feature name. This parameter is being used to store the feature identifier for Usage Sensitive Three Way Calling. It will only be stored if the feature SFID (Secured Feature ID) 106 has been activated on the SFSYS form (5713-1 Record). If this parameter is stored, it will indicate that the feature is available in the office. This field also is used for the Spontaneous Usage-Sensitive 3-Way Calling feature. For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E8 and later.

Valid Entries: 1 - 8 characters

Data Rules:

The Usage Sensitive Three-Way Calling feature is a Secured Feature that must be purchased by the office before data can be entered and/or changed for the USTWC fields on the OFCOPT form. If an SFSYS form does not have SFID 106 ACT set to "Y", then the field USTWC FEAT must not be entered and the fields USTWC ACT and USTWC CHRG must be set to "N".

For 5E9(1) and later:

- if USTWC FEAT is not entered, then SPONT AVAIL must be "UNAVAIL".
- if USTWC FEAT is entered and the SPONT AVAIL is "GENAVAIL" or "SUBSCR", then the USTWC FEAT field is used by the Spontaneous Usage Sensitive Three-Way Calling Special Feature and the feature name entered in this field must be defined on the MWFD form with the following:

ACT/INACT OPTION is "ALWACT"

AMAC is "USAGE"

MULTIWAY CONTROL is "3WAY"

FLASH ENTRY POINT is "Y"

OFF HOOK ENTRY POINT is "N"

- if SPONT AVAIL is "UNAVAIL", then USTWC FEAT field is used by the Usage Sensitive Three-Way Calling Special Feature. Therefore, the feature name entered in this field must be defined on the MWFD form with:

ACT/INACT OPTION is "ACT1CA"

AMAC is "USAGE"

FLASH ENTRY POINT is "N"

MULTIWAY CONTROL is "3WAY"

OFF HOOK ENTRY POINT is "Y"

2.237 USTWC ACT

Description: Should Usage-Sensitive 3-Way Calling activation records be made? See Division 2, Section 4A106 for more information on Usage Sensitive Three-Way Calling Secured feature. This field also is used for the Spontaneous Usage-Sensitive 3-Way Calling feature. For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If SFID 106 is not set to "Y" on the SFSYS form, USTWC ACT must be "N".

2.238 USTWC CHRG

Description: Should Usage-Sensitive 3-Way Calling charge records be made? This field also is used for the Spontaneous Usage-Sensitive 3-Way Calling feature. For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E8 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If SFID 106 is not set to "Y" on the SFSYS form, USTWC CHRG must be "N".

2.239 SPONT AVAIL

Description: The SPONT AVAIL field is used to determine the type of availability for the Spontaneous Usage-Sensitive Three-Way Calling Feature. The SPONT AVAIL field was added to support the Spontaneous Usage-Sensitive Three-Way Calling Special Feature. This feature will be made available in a 5e9(1) Software Update (SU). For more information on this feature, see Division 2, Section 4A156.

Software Release: 5E9(1) and later.

Required Field.

Default: UNAVAIL

Valid Entries:

Valid SPONT AVAIL Entries	
Entry	Definition
GENAVAIL	The Spontaneous USTWC feature is to be generally available to all users, with the exception of disabled lines.
SUBSCR	Feature is available only to those users who subscribe to use it (RC view 1.6, ODA LINE form).
UNAVAIL	Feature is not available in this office.

Data Rules:

"UNAVAIL" must be entered in this field if USTWC FEAT field is not entered.

This field supports the Spontaneous Usage Sensitive Three-Way Calling feature, which is a Secured Feature that must be purchased by the office before this field can be changed from the default value of "UNAVAIL". Therefore, the ACT field for SFID 156 on the SFSYS form (5713-1 Record) must be set to "Y" before this field

can be entered.

NETWORK ACCESS INTERRUPT (NAI)

The following fields (Section 2.240 - Section 2.241) defines office parameters for the Toll NAI (Network Access Interrupt) secured feature.

2.240 TOLL

Description: Is the Network Access Interrupt feature for Toll active? This field supports the Toll NAI secured feature (SFID 380). For more information on the Toll NAI feature, see Division 2, Section 4A380.

Software Release: 5E9(1) and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If "Y" is entered, then NAI SUBSYS NBR must be entered.

2.241 SUBSYS NBR

Description: Enter the subsystem number used in direct signaling application for Toll NAI.

Software Release: 5E9(1) and later.

Valid Entries: 232 - 255

DNUS

The following field defines the office parameter for DNU-S

2.242 FI SWITCH INT

Description: Enter the minimum interval in days that the REX (Routine Exercise) is permitted to run without switching the SFIs (STSX-1 Facility Interfaces). A value of "OFF" means never switch. This parameter supports the DNU-S. For more information on DNU-S, see Division 2, Section 9C.

Software Release: 5E9(2) and later.

Required Field.

Default: 28

Valid Entries: OFF or 1 - 360 (days)

OIU

The following field defines the office parameter for OIU.

2.243 OFI SWITCH INT

Description: The OFI SWITCH INT field is used to specify the minimum interval in days that REX (Routine EXercise) is permitted to run without switching the OFI (Optical Facility Interfaces). This field supports the OIU (Optical Interface Unit) feature. For more information on this feature, see Division 2, Section 7BQ.

Software Release: 5E16(2) and later.
Required Field.
Default: 28
Valid Entries: OFF or 1 - 360 (days)

2.244 OIU TDM CHBLK CNT

Description: The OIU TDM CHBLK CNT (Optical Interface Unit Time Division Multiplexing Channel Block Count) field is used to display the number of 672 channel blocks assigned to TDM OIUs in the office. This is a no change field. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (For more information on this feature, See Division 2, Section 7BX.)

Software Release: 5E16(2) and later
Required Field.
Default: 0
Valid Entries: 0 - 1152

2.245 OIU TDM CHBLK LMT

Description: The OIU TDM CHBLK LMT (Optical Interface Unit Time Division Multiplexing Channel Block Limit) field is used to display the maximum number of 672 channel blocks assigned to TDM OIUs in the office. This is a no change field. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (For more information on this feature, see Division 2, Section 7BX.)

Software Release: 5E16(2) and later
Required Field.
Default: 0
Valid Entries: 0 - 1152

2.246 OIU IP CHBLK CNT

Description: The OIU IP CHBLK CNT (Optical Interface Unit Internet Protocol Channel Block Count) field is used to display the number of 672 channel blocks assigned to IP OIUs in the office. This is a no change field. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (For more information on this feature, see Division 2, Section 7BX.)

Software Release: 5E16(2) and later
Required Field.
Default: 0
Valid Entries: 0 - 1152

2.247 OIU IP CHBLK LMT

Description: The OIU IP CHBLK LMT (Optical Interface Unit Internet Protocol Channel Block Limit) field is used to display the maximum number of 672 channel blocks assigned to IP OIUs in the office. This is a no change field. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature. This feature is made available in 5E16 Feature Release 3. (For more information on this feature, see Division 2, Section 7BX.)

Software Release: 5E16(2) and later.
Required Field.

Default: 0
Valid Entries: 0 - 1152

2.248 MAXIMUM

Description: This is a display only field that is used to display the maximum number of CORE700 SM-2000s allowed. This field supports the CORE700 feature. For more information, see Division 2, Section 8AN.

Software Release: 5E16(2) FR 5 and later
Default: 0
Valid Entries: 0 - 23

PHA

The following fields (Section 2.249 - Section 2.251) define the parameters for the Protocol Handler for PHA (Protocol Handler for Asynchronous Transfer) feature. For more information on this feature, see Division 2, Section 4A224.

2.249 CONG1 QCAP

Description: Enter the percentage when the Congestion Level 1 Queue Capacity Threshold is exceeded for Protocol Handlers for ATM (Asynchronous Transfer Mode). Measurements are pegged when this threshold is exceeded.

Software Release: 5E10 and later.
Required Field.
Default: 50(%)
Valid Entries: 0 - 100 (%)

Data Rules:

CONG1 QCAP cannot be greater than CONG2 QCAP.

2.250 CONG2 QCAP

Description: Enter the percentage when the Congestion Level 2 Queue Capacity Threshold for Protocol Handlers for ATM (PHA) is exceeded. Measurements are pegged when this threshold is exceeded.

Software Release: 5E10 and later.
Required Field.
Default: 80 (%)
Valid Entries: 0 - 100 (%)

2.251 ATM LAYER

Description: Enter the Asynchronous transfer mode layer used to specify the physical layer used between PHAs (Protocol Handlers for Asynchronous Transfer Mode).

Software Release: 5E10 and later.
Required Field.
Default: SONET
Valid Entries:

|

Valid ATM LAYER Entries	
Entry	Definition
SONET	Synchronous Optical Network
SDH	Synchronous Digital Hierarchy

PHV

The following fields (Section 2.252 - Section 2.253) define the parameters for PHV (Protocol Handlers for Voice.) These fields support the CDMA (Code Division Multiple Access) feature. For more information on this feature see Division 2, Section 8B.

2.252 VOC TYPE

Description: Enter the rate of the vocoders on the PHV (protocol handlers for voice).

Software Release: 5E10 and later.

Required Field.

Default: 8 or 13 KBPS

Valid Entries:

Valid VOC TYPE Entries	
Entry	Definition
8KBPS	8 kilobit per second vocoder
13KBPS	13 kilobit per second vocoder

2.253 REV QLTY THRESH

Description: Enter the CDMA reverse voice quality threshold. This threshold is used to determine when to peg the SH (Speech Handler) measurements associated with Low Quality Reverse Voice Call Intervals. Specifically, when the voice quality value of the reverse voice frame fed to the vocoder for the call interval is below this threshold, the appropriate measurement is pegged. This threshold is NOT used for SH reverse voice frame selection.

Software Release: 5E10 and later.

Required Field.

Default: 0

Valid Entries: 0 - 127

CNIS INTRAGROUP DELIVERY ONLY

The following field defines the office parameter for CNIGI (Calling Number Identification Services Intragroup Delivery Only) feature. For more information on this National ISDN 3 feature, see Division 2, Section 1AM.

2.254 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later

Default: NULL

Valid Entries:

Valid CNIGI Entries - 5E10 and later	

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the Terminal Group Attendant and Data form, TGATTD (5611 Record, Recent Change view 4.4).

COMMUNICATION MODULE

The following field supports the CM3 NxTMS feature (99-5E-4104). For more information on this feature see Division 2, Section 7BO.

2.255 TMS HUNT

Description: This field indicates the Time Multiplex Switch algorithm number.

Software Release: 5E16.2 and later

Default: 0

Valid Entries:

Valid TMS HUNT Entries - 5E16.2 and later			
Mode	Name	Definition	Usage
1	Round Robin	Call paths are hunted in a rotation among all equipped TMSFP (including TMSFP 0).	Offices with all SM-2000s
2	Zero-last	Call paths are hunted in a rotation among all equipped TMSFP. TMSFP 0 is always hunted last.	Offices with SMs
0	Default	If the office has all SM-2000s then use mode 1. If the office has a mixture of SM 2000s and SMs then use mode 2.	Default for all offices.

The TMS Hunt value will be set to default (0) for new starts on or retrofits to 5E16.2. The option can be changed to lock in a mode (1 or 2)

CALL WAITING DELUXE

The following fields defines the office parameter for Call Waiting Deluxe. These fields support the Call Waiting Deluxe Phase II Feature. This is a secured feature with SFID 145. For more information on this feature, see Division 2, Section 4A145.

2.256 ALERT TYPE

Description: The Call Waiting Deluxe Alerting Type. The user and/or the CPE is alerted of an incoming call by way of a tone.

Software Release: 5E10 and later.

Default: CWD2

Valid Entries:

Valid ALERT TYPE Entries - 5E10 and later	
Entry	Definition
OFCALERT	Office value
CWD	SAS only with non-ADSI per-call options allowed
CWD1	SAS & CAS with non-ADSI per-call options restricted
CWD2	SAS & CAS with non-ADSI allowed

2.257 DFLT OPT

Description: Default Service Option is a treatment applied to incoming calls when the user does not select a per-call option.

Software Release: 5E10 and later.

Default: CALLFWD

Valid Entries:

Valid DFLT OPT Entries - 5E10 and later	
Entry	Definition
OFCDFLTOPT	Office value
	Continue providing waiting party audible ringing
CALLFWD	Forward waiting call to CFDA destination
DEFANNC	Connect waiting call to default announcement

2.258 USG SENS CONF

Description: Usage Sensitive Conference is used to track the usage of conferencing.

Software Release: 5E10 and later.

Default: N

Valid Entries:

Valid USG SENS CONF Entries - 5E10 and later	
Entry	Definition
OFCCONF	Office value
N	Do not provide usage sensitive AMA for conferencing on this line
Y	Provide usage sensitive AMA for conferencing on this line

2.259 SUPV ANNC

Description: Answer Supervision on Per-call Announcement will charge for each time announcement is used.

Software Release: 5E10 and later.

Valid Entries: Y, N

Default Value: Y

2.260 DFLT ANNC

Description: Determines if answer supervision shall be provided for the default announcement.

Software Release: 5E10 and later.

Default: Y

Valid Entries: Y, N

2.261 HOLD ANNC

Description: Determines if answer supervision shall be provided at the beginning or ending of Hold Announcement.

Software Release: 5E10 and later.

Default: BEGOFANNC

Valid Entries:

Valid HOLD ANNC Entries - 5E10 and later	
Entry	Definition
BEGOFANNC	Provide answer supervision at the beginning of the hold annc.
ENDOFANNC	Provide answer supervision at the end of hold annc.

2.262 FLASH TIMER

Description: Maximum amount of time the switch mutes the voice-path after it detects a flash signal from a non-ADSI compatible CPE while a call is on hold. If the flash timer expires before a DTMF tone is detected, the switch performs the RETURN treatment. The flash timer is stopped when the system detects a valid DTMF tone.

Software Release: 5E10 and later.

Default: 1.5 seconds

Valid Entries: Enter a value from 1 to 8 seconds (increments of 0.5 seconds)

2.263 DFLT TIMER

Description: Amount of time the switch waits before providing CWD default treatment, if the CWD customer has not selected a CWD per-call option or the waited party has not disconnected. The default timer is started after the switch sends the re-alerting tone. The default timer is stopped when the system detects a flash or the waiting party disconnects.

Software Release: 5E10 and later.

Default: 15 seconds

Valid Entries: Enter a value from 0 to 110 seconds (increments of 1 seconds)

2.264 HOLD TIMER

Description: The interval from when a held party is connected to a silent termination until it is connected, or re-connected, to a reminder announcement.

Software Release: 5E10 and later.

Default: 60 seconds

Valid Entries: 0 - 120 seconds (increments of 1 second)

2.265 PRODUCT

Description: Enter Product Architecture Type.

Software Release: 5E10 and later.

Default: 5ESS

Valid Entries:

Valid PRODUCT Entries - 5E10 and later	
Entry	Definition
5ESS	Standard 5ESS office.
VCDX	Very Compact Digital Exchange.
WNC	Wireless NetworkCentrex.
DRM	Distinctive Remote Module. For more information see Division 2, Section 4A525.

Data Rules:

If PRODUCT is "VCDX", all trunk groups with DCS TRK on the TKGRP form equal to "Y" must also have LOCAL MOD specified. If PRODUCT is other than "VCDX", all trunk groups with DCS TRK equal to "Y" must leave LOCAL MOD blank.

For 5E11 and later, when VCDX OFFICE is set to "Y" on the EQCORE form and TRKCLS on the TKGRP form (5202-1/2 Record) is not in the table below, then LOCAL SM on the TKGRP form must be known.

For 5E14 and later, when the REMOTE MODULE has RALM forms for various Alarm Scan Points (0-54) defined and the PRODUCT field on the OFCOPT form is set to "DRM", ALARM INPUT OPT must be "Y" on the OFCOPT form.

For 5E14 and later, when the REMOTE MODULE has RALM forms for Alarm Scan Points 100 through 113 defined and the PRODUCT field on the OFCOPT form is set to "DRM", ALARM OUTPUT OPT must be "Y" on the OFCOPT form.

For 5E14 and later, if the value of PRODUCT on the OFCOPT form is either "VCDX" or "DRM", then all TKGRP forms with DCS TRK equal to "Y" must have LOCAL SM specified. If the value of PRODUCT on the OFCOPT form is not "VCDX" or "DRM", then all TKGRP forms with DCS TRK equal to "Y" must have LOCAL SM null.

LOCAL SM Entries	
Software Release: 5E11 and later	
Data Condition	Trunk Group Definition
TRKCLS[1,3] = "LTP"	Local Test Port Trunk
TRKCLS = "EDS" and RDTA GRP = "Y"	Extended Digital Subscriber RDTA Trunk TRKCLS = "INAISTRK"
TRKCLS = "RMSD3"	TAT connected to RSM-D3 Trunk
TRKCLS = "TOPAS"	Test Access Trunk - TOPAS Interface

For 5E10 and later, when WNC is entered, a WCTXOPT form must be entered with a SITE ID of 0.

When "WCN" is entered, an action of "FLASH" must be entered on the SRVCDESC form (5985 Record) to indicate the WCTX Wireless Flash feature.

For 5E13 and later, when PRODUCT is "WNC", then TANDEM CUT on the ICF form must be "N".

LONG DISTANCE PLATFORM

Prior to 5E12, this was the TOLL DIGITAL EXCHANGE field group, the field group name was changed to LONG DISTANCE PLATFORM.

The following fields define Long Distance Platform parameters used in a LDP (Long Distance Platform) office. This is a secured feature with SFID 165. For more information on this feature, see Division 2, Section 4A165.

2.266 TDX CARRID

Description: With 5E12 and later, this field name is changed to LDP CARRID. Enter the Toll Exchange Carrier Identification number. This field supports the Toll Digital Exchange Basic Call Processing Feature used in a LDP office.

Software Release: 5E10 through 5E11.

Valid Entries: 0 - 9999

Data Rules:

When TDX CARRID is entered, the CARRIER ID must be defined on the ICF form, and FEAT GRP on the ICF form must equal "D".

The TDX CARRID field can not be set to "0" when any trunk group defined in the office has TDX set to "Y" on the TKGRP form.

2.267 LDP CARRID

Description: Prior to 5E12, this was the TDX CARRID field. With 5E12 and later, this field name was changed to LDP CARRID. Enter the Long Distance Platform Identification number. This field supports the Long Distance Platform Basic Call Processing Feature used in a LDP office.

Software Release: 5E12 and later.

Valid Entries: 0 - 9999

Data Rules:

When LDP CARRID is entered, the CARRIER ID must be defined on the ICF form, and FEAT GRP on the ICF form must equal "D".

The LDP CARRID field cannot be set to "0" when any trunk group defined in the office has LDP set to "Y" on the TKGRP form.

2.268 LDP OFFICE ID

Description: The LDP OFFICE ID is used to populate the office ID in the NST (Network Specific Termination) parameter. For more information, see Division 2, Section 4A287.

Software Release: 5E13 and later.

Valid Entries: 1 - 255, or leave blank.

2.269 NST ALL

Description: Send the NST (SS7 Network Specification Termination) parameter on all (ACM, CPG, and REL) messages, should the other conditions for sending the parameter be met? For more information, see Division 2, Section 4A287.

Software Release: 5E13 and later.

Valid Entries: Y, N

Default Value: N

2.270 ACCT PROMPT

Description: The ACCT PROMPT field specifies the toll account prompt. The ACCT ANNC field was removed. The ACCT PROMPT and CARRIER TONE fields were added to support the 400Hz Carrier Tone feature. For more information on this feature see Division 2, Section 4A165.

Software Release: 5E13 and later

Default: BEEP2

Valid Entries:

Valid ACCT PROMPT Entries	
Entry	Definition
ANNC	SAS (Service Announcement System announcement)
BEEP2	Prompt of two audible beeps
CARRIER	400Hz carrier tone.

Data Rules:

When ACCT PROMPT is "CARRIER", CARRIER TONE must be "Y".

For 5E13 later, when the OFCOPT form has ACCT PROMPT set to "ANNC", exactly one FIXRT form must exist with FIXED ROUTE TYPE set to "TACCT".

2.271 CARRIER TONE

Description: The CARRIER TONE field specifies whether the 400Hz Carrier Tone should be provided as a system tone. Should 400Hz Carrier Tone be provided as a system tone?

Default: N

Valid Entries: Y, N

2.272 ACCT ANNC

Description: Should Account Code Announcement Indicator be provided by the Service Announcement System?

For 5E13 and later, this field is changed to ACCT PROMPT.

Software Release: 5E11 through 5E12

Valid Entries: Y, N

Default Value: N

Data Rules:

When the OFCOPT form has ACCT ANNC set to "Y", exactly one FIXRT form must exist with FIXED ROUTE TYPE set to "TACCT".

2.273 NSC WC ID

Description: The NSC WC ID field is used to specify the LDP (Long Distance Platform) network selection code context ID. If the Context ID, the first three digits of the AMA Digits Dialed WC parameter, returned from the SCP is the same as the NSC WC ID, the remaining digits in the AMA Digits Dialed WC parameter will be treated as a T-NSC (Terminating Network Selection Code). If the two values being compared do not match, the remaining digits will be treated as AMA digits. For more information, see Div. 2, Sec. 4A217.

Software Release: 5E12 and later.

Valid Entries: 0 - 999, or leave blank.

2.274 ORIG NSC

Description: The ORIG NSC field is used to specify the LDP originating network selection code and must be entered for the MINT-ALPHA feature. For more information see, Div. 2, Sec. 4A217.

Software Release: 5E12 and later.

Valid Entries: 0 - 999, or leave blank.

2.275 TERM NSC

Description: The TERM NSC field is used to specify the LDP terminating network selection code. For more information, see Div. 2, Sec. 4A217.

Software Release: 5E12 and later.

Valid Entries: 0 - 999, or leave blank.

Data Rules:

When the MINT-ALPHA feature is purchased by the office with SFID 217 ACT set to "Y" on the SFSYS form,

TERM NSC on the OFCOPT form and the corresponding LDPTNSC form must be entered.

2.276 TEST CALL TNSC

Description: The TEST CALL TNSC field is used to specify the LDP test call terminating network selection code. For more information, see Div. 2, Sec. 4A217.

Software Release: 5E12 and later.

Valid Entries: 0 - 999, or leave blank.

Data Rules:

When the MINT-ALPHA feature is purchased by the office with SFID 217 ACT set to "Y" on the SFSYS form, TEST CALL TNSC on the OFCOPT form and the corresponding LDPTNSC form must be entered.

2.277 LDP ANI

Description: The LDP ANI field is used to indicate which ANI table is used. If "Y" the ANITABLE form is used, if "N" the ANITBL form is used.

For more information see Division 2, section 4A165.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E13, when TRKCLS on the TKGRP form is "IC", "LATA" or "TTOLLCON", and LDP on the TKGRP form is "Y" and LDP ANI on the OFCOPT form is "N", then there must exist an ANITBL form with NPA equal to 000, NXX equal to 000 and LINE equal to 0000.

INCREASED TGN

The following fields define the Increase Number of Trunk Groups to 4000 feature. This is a secured feature with SFID 172. For more information on this feature, see Division 2, Section 4A172.

2.278 MAX TGN

Description: The MAX TGN field is used to specify the maximum number of trunk groups in this office.

Software Release: 5E11 and later.

Valid Entries: 2000, 4000

Default Value: 2000

Data Rules:

The Increase Number of Trunk Groups to 4000 is a secured feature that must be purchased by the office before MAX TGN can be set to 4000 on the OFCOPT form. A SFSYS form must exist with SFID 172 ACT set to "Y".

The TGN entered on the TKGRP form must be less or equal to the value of MAX TGN on the OFCOPT form.

2.279 MAX RTIDX

Description: The MAX RTIDX field is used to specify the maximum number of route indices in this office.

Software Release: 5E11 and later.

Default: 3617

Valid Entries:

For 5E13 and later: 3617, 4095 , 16382

Data Rules:

This field supports the Increase Number of Trunk Groups to 4000 secured feature that must be purchased by the office before MAX RTIDX can be set to 4095 on the OFCOPT form. A SFSYS form must exist with SFID 172 ACT set to "Y".

The MC ROUTE INDEX on the MCRTIDX form and the ROUTE INDEX on the RTIDX form must be less or equal to the value of MAX RTIDX on the OFCOPT form.

When MAX RTIDX is set to 16382, the ACT field for SFID 289 must be set to "Y" on the SFSYS form.

LOCAL NUMBER PORTABILITY

The following field defines a parameter for the Local Number Portability feature. This is a secured feature with SFID 174. For more information on this feature, see Division 2, Section 4A174.

2.280 JIP

Description: Enter 6 digits NPA-NXX of the form (0-9) (0-9) (0-9) (0-9) (0-9) (0-9). This field defines the Jurisdiction Information Parameter. The JIP field is used to specify the ISUP parameter included in the IAM (Initial Address Message). It contains the NPA-NXX of a designated LRN (Location Routing Number) on the originating switch. The JIP is needed to allow carriers to determine the switch of the originating service provider so the bill can be sent to the correct company.

Software Release: 5E11 and later.

Valid Entries: A 6-digit number

Data Rules:

If JIP is entered, SFID 174 ACT on the SFSYS form must be "Y".

2.281 DFLT FLAT RATE

Description: The DFLT FLAT RATE field is used to indicate whether or not flat rate AMA records should be generated.

Software Release: 5E11 and later.

Valid Entries:

Valid DFLT FLAT RATE Entries	
Entry	Definition
C for COND	Conditional generation of flat rate record when a LRN is received in the NP response message.
N for NONE	Never generate a flat rate record.
U for UNCOND	Unconditional generation of flat rate records whenever an LNP query is performed without failure or errors.

2.282 DFR STRCT CODE

Description: The DFR STRCT CODE field is used to specify which structure code is to be used for the generation of a flat rate AMA record.

SoftwareRelease: 5E11 and later.
Valid Entries: 001 or 500

REORDER THRESHOLDS

The following fields (Section 2.283 - Section 2.285) provide an alarm on a per SM basis when the "re-order" count (the number of incompleted calls routed for retry (re-order) reaches the defined threshold. Calls may be re-ordered due to a busy trunk, lack of proper engineering or overload situation, software/hardware resource limitations, and/or database inconsistencies.

2.283 RCR MINOR

Description: The RCR MINOR field is used to specify the minor Reorder Count Ratio alarm threshold in this office.

Software Release: 5E11 and later.
Default: 0
Valid Entries: 0 - 253 (0 to deactivate)

Data Rules:

RCR MINOR must be less than RCR MAJOR.

RCR MINOR, RCR MAJOR, and RCR CRITICAL must be all 0 or all greater than 0.

2.284 RCR MAJOR

Description: The RCR MAJOR field is used to specify the major Reorder Count Ratio alarm threshold in this office.

Software Release: 5E11 and later.
Default: 0
Valid Entries: 0, or 2 - 254 (0 to deactivate)

Data Rules:

RCR MAJOR must be less than RCR CRITICAL.

RCR MINOR, RCR MAJOR, and RCR CRITICAL must be all 0 or all greater than 0.

2.285 RCR CRITICAL

Description: The RCR CRITICAL field is used to specify the critical Reorder Count Ratio alarm threshold in this office.

Software Release: 5E11 and later.
Default: 0
Valid Entries: 0, or 3 - 255 (0 to deactivate)

RCR MINOR, RCR MAJOR, and RCR CRITICAL must be all 0 or all greater than 0.

LDCW TREATMENT

The following field defines the office parameter for the Long Distance Call Waiting feature.

2.286 LDCW TRMT

Description: Are SS7 calls without Calling Party Number information to be treated as local calls for the Long Distance Call Waiting Feature? Enter "N" for Long Distance Calls or "Y" for Local Calls. This field supports the Enhanced Long Distance Call Waiting Feature. For more information on this feature see Division 2, Section 4A91.

Software Release: 5E10 and later.

Default: N

Valid Entries: Y, N

2.287 SIGIOPT

Description: Investigate abnormal signaling? This field is a no change field and defaults to "Y".

Software Release: 5E11 and later

Required Field.

Default Value: Y

Valid Entries: Y, N

ISUP/BICC QRY OPTIONS

The following fields define the office parameters for the Circuit Query Options for the CCS7-PSU for EXM/SM-2000 feature. Refer to Division 2, Section 9L for more information on this feature.

2.288 CQM RSND

Description: This parameter specifies the circuit query timer value (in seconds) used when waiting for a reply to a Circuit Query Message.

Software Release: 5E12 and later.

Default: 10

Valid Entries: 10 - 15 in seconds

2.289 CQ START TIME

Description: This field has been replaced by CQ/BQ START TIME.

2.290 CQ/BQ START TIME

Description: This parameter specifies the circuit query (5E12 and later)/BICC CIC Query (5E15 and later) start time value. It is used to define the hours that the daily automatic office wide circuit query and the BICC CIC query will begin. The BICC group query was added to support Feature 99-5E-7555.D. See Division 2, Section 4A567 for more information.

Software Release: 5E12 and later

Default: 3

Valid Entries: 0 - 23 (blank means query is off)

NPA-NXX GROWTH**2.291 ASI SID 10**

Description: The ASI SID 10 field is used to indicate whether the default directory number associated with the ASI (Advanced Services Interface) subscriber to the IP (Intelligent Peripheral) on this switch should be displayed as 10 digits or 7 digits. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E12 and later, the ASI SID 10 field on the OFCOPT form is used by the Number Portability - NPA-NXX Growth feature. This is a secured feature that must be purchased by the office before data can be changed from the default value. An SFSYS form must exist with SFID 198 set to "Y".

2.292 ROP DISP DN 10

Description: The ROP DISP DN 10 is used to indicate whether the switch is displaying the full 10 digits of a DN (Directory Number) whenever DNs are printed on the ROP. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later.

Default: N

Valid Entries: Y, N

RTCD OPTIONS**2.293 BILL SM**

Description: The BILL SM is used to display the global billing SM (Switching Module) for the RTCD (Real Time Call Detail) platform. For more information, see Division 2, Section 4A245.

Software Release: 5E12 and later.

Default: Null

Valid Entries: 0 - 192 (0 indicates there is no global billing SM)

2.294 RTCD OFC

Description: The RTCD OFC field is used to indicate on a per office basis, whether or not RTCD billing records are generated. For more information, see Division 2, Section 4A245.

Software Release: 5E12 and later.

Required Field.

Default: N

Valid Entries: Y,N

Data Rules:

For 5E12 and later, when RTCD OFC on the OFCOPT form is set to "Y", SFID 245 must be set to "Y" on the

SFSYS form.

2.295 RTCD ALM

Description: The RTCD ALM field is used to indicate on a per office basis, whether or not alarms are activated during stand-alone billing. These alarms will sound when the RTCD records that have been written to the stand-alone billing memory have filled the available RTCD memory space to the defined thresholds. For more information, see Division 2, Section 4A245.

Software Release: 5E12 and later.

Required Field.

Default: Y

Valid Entries: Y,N

2.296 SCP TREC

Description: The SCP TREC field is used to determine how billing information should be recorded for SCP transactions. For more information, see Division 2, Section 4A245.

Software Release: 5E13 and later.

Valid Entries:

Valid SCP TREC Entries	
Entry	Definition
AMAONLY	Use the AMAsplID for AMA records only.
RTCDAMA	Use the AMAsplID for AMA and RTCD records.
RTCDONLY	Use the AMAsplID for RTCD records only.

PSU TRUNKS

2.297 PP IDLE

Description: Enter the time in seconds indicating the time without flags before Packet Pipes go idle.

This office parameter indicates the time without flags before packet pipe trunk members will go to the state of idle channel. When the PH being used by a packet pipe trunk member detects that a previously active packet pipe has gone idle at layer 1 (i.e. no 0/1 transitions), an "idle" timer of duration PP IDLE is started. If the "idle" timer expires before any activity is detected on the packet pipe, the "idle" condition of the packet pipe is reported to TM (Terminal Maintenance). TM reports the status of the packet pipe as "OOS BLKD IDLE".

This field was added to support the CDMA Data Services - Circuit Mode feature for 5E12 and later. For more information on this feature, see Division 2, Section 8F.

Software Release: 5E12 and later.

Required Field.

Default: 4

Valid Entries: 1 - 30 seconds

2.298 PER RATE

Description: Enter the Protocol Error Record leak rate for speech handler trunks.

This office parameter indicates the PER (Protocol Error Record) leak rate for the speech handler channel trunks. The parameter applies to all trunks on a switch. The leak rate represents the number of PERs to be

leaked in a period of time. Example: If the value of this global parameter is set to 5 and the time interval is 3 minutes, then every 3 minutes 5 PERs will be leaked.

This field was added to support the CDMA Data Services - Circuit Mode feature for 5E12 and later. For more information on this feature, see Division 2, Section 8F.

Software Release: 5E12 and later.

Required Field.

Default: 5

Valid Entries: 0 - 255

2.299 PER THRESH

Description: Enter the Protocol Error Record threshold for speech handler trunks.

This office parameter indicates the PER (Protocol Error Record) error threshold for speech handler channel trunks. The parameter applies to all the trunks on a switch. A report is generated when the defined PER threshold value is met. Example: If this global parameter is set to 15, then when the PER count for a trunk reaches 15 a report is generated. An internal counter is reset so that the next report is only generated when a new PER count of 15 is reached.

This field was added to support the CDMA Data Services - Circuit Mode feature for 5E12 and later. For more information on this feature, see Division 2, Section 8F.

Software Release: 5E12 and later.

Required Field.

Default: 15

Valid Entries: 0 - 255

2.300 PER 3G RATE

Description: Enter the PER (Protocol Error Record) CDMA Third Generation leak rate.

This office parameter indicates the PER leak rate for CDMA Third Generation 1X High Speed Data trunks. The parameter applies to all trunks on a switch. The leak rate represents the number of PERs to be leaked in a period of time. For example, if the value of this global parameter is set to "5" and the time interval is 3 minutes, then every 3 minutes, 5 PERs are leaked.

This field was added to support the CDMA 3G1X High Speed Data feature for 5E15 and later. For more information on this feature, see Division 2, Section 8Z.

Software Release: 5E15 and later.

Required Field.

Default: 5

Valid Entries: 0 - 255

2.301 PER 3G THRESH

Description: Enter the Protocol Error Record CDMA Third Generation threshold.

This office parameter indicates the PER error threshold for CDMA Third Generation 1X High Speed Data trunks. The parameter applies to all the trunks on a switch. A report is generated when the defined PER threshold value is met. For example, if this global parameter is set to "15", then when the PER count for a trunk

reaches 15, a report is generated. An internal counter is reset so that the next report is only generated when a new PER count of 15 is reached.

This field was added to support the CDMA 3G1X High Speed Data feature for 5E15 and later. For more information on this feature, see Division 2, Section 8Z.

Software Release: 5E15 and later.

Required Field.

Default: 15

Valid Entries: 0 - 255

2.302 PRIM VOC ALG

Description: Enter the Primary Voice Decoder Algorithm.

The PRIM VOC ALG field is used to specify the primary (default) voice 1 decoder (vocoder) algorithm. This algorithm is only used for voice decoder channel groups (defined by PH TYPE on the PSUGP form (5949 Record)) that can be associated with more than one GRP TYPE on the PSUGP form. It is used to set the GRP TYPE when an ADT (AUTOPLEX Data Trunk) is assigned to the channel group before a CVT (CDMA Voice Trunk) is assigned to the channel group. Example: Suppose that PH TYPE "PHV3" is able to handle the 8K, 13K, and EVRC algorithms, which means that GRP TYPE could get set to "CQ8CG", "CQ13CG", or "EVRCCG". Also suppose that this PH has been assigned on the PSUGP form, but has not been used yet by any trunk group member (so GRP TYPE is currently NULL). If the first trunk group member assignment to this PHV3 is an ADT and PRIM VOC ALG is set to "8K", the GRP TYPE will get set to "CQ8CG" for that channel group. (This means that CVT trunks subsequently assigned to this channel group must also have SERV TYPE "8K" on the TKGRP form (5202 Record))

This field was added to support the CDMA Data Services - Circuit Mode feature for 5E12 and later. For more information on this feature, see Division 2, Section 8F.

Software Release: 5E12 and later.

Required Field.

Default: EVRC

Valid Entries:

Valid PRIM VOC ALG Entries - 5E12 and later	
Entry	Definition
8K	8 KB channel group.
13K	13 KB channel group.
EVRC	EVRC algorithm channel group.

2.303 SEC VOC ALG

Description: Secondary Voice Decoder Algorithm.

This field is used to specify the default voice decoder (vocoder) algorithm for the first data (ADT) trunk group member on a PHV5 where no voice trunk has been assigned on the same channel group.

This field was added to support the Dynamic Allocation of Vocoder on PHV5 feature for 5E16 and later. (For more information on this feature, see Division 2, Section 8Y.)

Software Release: 5E16 and later.

Required Field.

Default:

CEV13 (5E19(1) and later

Valid Entries:

Valid SEC VOC ALG Entries - 5E16 and later	
Entry	Definition
13K	13K voice service for SPCHNDLR trunk groups.
EVRCB	Enhanced Variable Rate Coder - Version B
EVEVB	EVRC-B and EVRC (Enhanced Variable Rate Coder.
ACELP	Algebraic Code Excited Linear Predictive Algorithm Vocoder
CEV13	Service type for CDMA EVRC and 13K Vocoder.
EVRC	Enhanced Variable Rate Coding for SPCHNDLR trunk groups.
TACVS	Service type for TDMA ACELP and VSELP Vocoder.
VSELP	Vector Sum Excited Linear Predictive Algorithm Vocoder.

Data Rules:

- NOTE:** A SEC VOC ALG of "TACVS" is not currently supported. The valid entry "TACVS" for this field may potentially be supported for future use.

FRBC LEV 3 PER

The following fields define the Frame Relay Bearer Channel Level 3 Protocol Error Record Minimum and Maximum Thresholds.

These fields were added to support the CDMA Data Services - Circuit Mode feature for 5E12 and later. For more information on this feature, see Division 2, Section 8F.

2.304 MIN THRESH

Description: Enter the Frame Relay Bearer Channel Level 3 Protocol Error Record Minimum Threshold.

This office parameter indicates the minimum (troubled) threshold for service-affecting level 3 errors on FRBC (Frame Relay Bearer Channel) trunks for the entire switch. When this threshold is reached, an entry for this FRBC trunk will be placed in a table that tracks FRBCs experiencing errors and the entry is timestamped. If the maximum threshold is reached, the current time and the timestamp of the table entry are compared. If the difference is less than a pre-defined time, the FRBC is taken out-of-service. If the time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

Software Release: 5E12 and later.

Required Field.

Default: 500

Valid Entries: 1 - 2047

Data Rules:

MIN THRESH must be less than MAX THRESH

2.305 MAX THRESH

Description: Enter the Frame Relay Bearer Channel Level 3 Protocol Error Record Maximum Threshold.

This office parameter indicates the maximum (remove) threshold for service-affecting level 3 errors on FRBC (Frame Relay Bearer Channel) trunks for the entire switch. When the minimum (troubled) threshold is reached, an entry for this FRBC trunk will be placed in a table that tracks FRBCs experiencing errors and the entry is timestamped. If the maximum threshold is reached, the current time and the timestamp of the table entry are compared. If the difference is less than a pre-defined time, the FRBC is taken out-of-service. If the

time difference is greater than the pre-defined time, then the error count is decremented by a pre-defined amount.

Software Release: 5E12 and later.

Required Field.

Default: 900

Valid Entries: 1 - 2047

TALKING CALL WAITING

The following fields (Section 2.306 - Section 2.316) were added to support the Talking Call Waiting feature for 5E12 and later. For more information on this feature, see Division 2, Section 4A331.

2.306 ANS TIMER

Description: This field is used to indicate the maximum amount of time in seconds that the switch waits for the IP (Intelligent Peripheral) to answer.

Software Release: 5E12 and later

Default: 2

Valid Entries: 0.1 - 10.0

Data Rules:

When ANS TIMER is not equal to 2.0, DN1 or DN2 must be entered.

For 5E14 and earlier, when ANS TIMER is set to a value other than 2, the ACT field for SFID 331 on the SFSYS form (5713-1 Record) must be set to "Y".

2.307 DISC TIMER

Description: This field is used to indicate the maximum amount of time in seconds that the switch waits for the IP (Intelligent Peripheral) to disconnect.

Software Release: 5E12 and later

Default: 3

Valid Entries: 0.1 - 10.0

Data Rules:

When DISC TIMER is not equal to 3.0, DN1 or DN2 must be entered.

For 5E14 and earlier, when DISC TIMER is set to a value other than 3, the ACT field for SFID 331 on the SFSYS form must be set to "Y".

2.308 DN1

Description: The DN1 (Directory Number 1) field indicates the DN of the Intelligent Peripheral which provides the call waiting tone and spoken name of the calling party to the TCW subscriber. The DN must be translated correctly on the LDIT/RDIT forms (5300-3, 5300-7 Records) so that a call to this DN terminates to the IP.

Software Release: 5E12 and later

Valid Entries: 0 - 9 (up to 18 digits)

Data Rules:

When DN1 is entered, TCW DAS and TCW SCR must both be entered.

When DN1, DN2, TCW DAS, or TCW SCR is entered, the ACT field for SFID 331 on the SFSYS form (5713-1 Record) must be set to "Y".

2.309 DN2

Description: The DN2 (Directory Number 2) field indicates the DN of the Intelligent Peripheral which provides the spoken name only of the calling party to the TCW subscriber. The DN must be translated accurately on the LDIT/RDIT forms (5300-3/5300-7 Records) so that a call to the DN terminates to the IP. The subscriber subscribes to CWT (Call Waiting Terminating), TCW, and CIDCW (Caller ID on Call Waiting). If CIDCW overrides Caller ID, TCW is not invoked.

Software Release: 5E12 and later
Valid Entries: 0 - 9 (up to 18 digits)

Data Rules:

When DN is entered, TCW DAS and TCW SCR must both be entered.

NOTE: DN1/DN2 should not be any special number (e.g., 800/888) that results in a query to an external system (e.g., STP/SCP (Signal Transfer Point/Service Control Point). No AIN (Automatic Identification Number) triggers should be assigned to the DN1/DN2. In both of these cases normal CW (Call Waiting) tone (instead of talking) will be provided to the subscriber.

DN1/DN2 should be translated correctly on PDIT/LDIT/RDIT (5300-2, 5300-3, 5300-7 Records) and on the RAR (5301 Record) forms so that a call to these DNs terminates to the IP (Intelligent Peripheral) using LEC(Local Exchange Carrier) facility and the call becomes a free call (if the TELCO (Telephone Company) wants no AMA (Automatic Message Accounting)).

2.310 DNB

Description: This field is used by the Talking Call Waiting - Distinctive Call Waiting Tones feature to indicate the DN (Directory Number) of the Intelligent Peripheral which provides the call waiting tone pattern "B". The DNB field on this form supports the Talking Call Waiting - Distinctive Call Waiting Tones feature. This is a secured feature, therefore the ACT field for SFID 590 must be set to "Y" on the SFSYS form (5713-1 Record) before this field can be entered. (For more detailed information on the Talking Call Waiting - Distinctive Call Waiting Tones feature, see Division 2, Section 4A590.)

Software Release: 5E16 and later.
Valid Entries: Blank, or enter 1 - 18 digits of 0 - 9

Data Rules:

When DNB, DNC, or DNG is entered, DN1, TCW DAS and TCW SCR must be entered.

2.311 DNC

Description: This field is used by the Talking Call Waiting - Distinctive Call Waiting Tones feature to indicate the DN of the Intelligent Peripheral which provides the call waiting tone pattern "C". The DNC field on this form supports the Talking Call Waiting - Distinctive Call Waiting Tones feature. This is a secured feature, therefore

the ACT field for SFID 590 must be set to "Y" on the SFSYS form (5713-1 Record) before this field can be entered. (For more detailed information on the Talking Call Waiting - Distinctive Call Waiting Tones feature, see Division 2, Section 4A590.)

Software Release: 5E16 and later.

Valid Entries: Blank, or enter 1 - 18 digits of 0 - 9

Data Rules:

When DNB, DNC, or DNG is entered, DN1, TCW DAS and TCW SCR must be entered.

2.312 DNG

Description: This field is used by the Talking Call Waiting - Distinctive Call Waiting Tones feature to indicate the DN of the Intelligent Peripheral which provides the call waiting tone pattern "G". The DNG field on this form supports the Talking Call Waiting - Distinctive Call Waiting Tones feature. This is a secured feature, therefore the ACT field for SFID 590 must be set to "Y" on the SFSYS form (5713-1 Record) before this field can be entered. (For more detailed information on the Talking Call Waiting - Distinctive Call Waiting Tones feature, see Division 2, Section 4A590.)

Software Release: 5E16 and later.

Valid Entries: Blank, or enter 1 - 18 digits of 0 - 9

Data Rules:

When DNB, DNC, or DNG is entered, DN1, TCW DAS and TCW SCR must be entered.

2.313 TCW DAS

Description: The TCW DAS (Talking Call Waiting Digit Analysis Selector) is a number that indicates which digit interpreter tables to use for analyzing the incoming digit stream for a call used to make a connection to the IP. TCW DAS is used to determine which PDIT/LDIT/RDIT is to be used by digit analysis to route the call to IP (DN1/DN2) overriding the TCW subscriber's line DAS. The PDIT/LDIT/RDIT provides Code Index, TYPE OF CI CALL, and Route Index (or Office Code) for the call to DN1/DN2. TCW DAS could be an existing DAS (preferred) or a new DAS. The DAS must be defined on the DAS form (5300-1 Record).

Software Release: 5E12 and later

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When TCW DAS is entered, then DN1 or DN2, and TCW SCR must be entered.

When TCW DAS is entered, that TCW DAS must be defined on the DAS form (5300 Record).

2.314 TCW SCR

Description: The TCW SCR (Talking Call Waiting Screening Index) field is used for digit analysis when making a connection to the IP. This value is also used to access information for routing and charging. TCW SCR is used to point to the RAR form where a Charge Index is assigned to the Code Index (from

PDIT/LDIT/RDIT) associated with the DN1/DN2 for billing the call to DN1/DN2. TCW SCR overrides the subscriber's line SCR.

The Charge Index is then expanded on CGIDX form (5302-1 Record) where the AMA CALL TYPE is set to "FREE" resulting in no AMA record generation for the call to DN1/DN2.

TCW SCR could be an existing SCR (preferred) or a new SCR.

The SCR must be defined on the RAR form.

The "FREE" Charge Index could be an existing one or a new one.

Software Release: 5E12 and later

Valid Entries: 1 - 4095

Data Rules:

When TCW SCR is entered, then DN1 or DN2, and TCW DAS must be entered.

When TCW SCR is entered, then TCW SCR must be defined on at least one RAR form (5301 Record) as SCR.

NOTE: The DN1/DN2 must be translated first on the PDIT/LDIT forms and then on the RDIT form with a unique Code Index and a TYPE OF CI CALL equal "NORMAL" on the RDIT form. This unique Code Index can then be entered on the RAR form (corresponding to TCW SCR) for the correct prefix of DN1/DN2, to provide a "FREE" Charge Index.

2.315 TCW SUPPRESS AMA

Description: This field is used to indicate whether AMA (Automatic Message Accounting) billing should be suppressed for TCW (Talking Call Waiting) calls.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

For 5E14 and later:

When TCW SUPPRESS AMA is entered, this value must be defined on the ICF form (5305 Record).

When TCW SUPPRESS AMA is "Y", the ACT fields for SFID 331 and SFID 558 must also be set to "Y".

2.316 TCW CARRID

Description: This field defines the carrier that will be used to route Inter-LATA (Local Access and Transport Area) calls to an external IP (Intelligent Peripheral).

Software Release: 5E14 and later

Valid Entries: Blank, or 0 - 9999

Data Rules:

For 5E14 and later:

When TCW CARRID is entered, this value must be defined on the ICF form (5305 Record).

When TCW CARRID is entered, and TCW SUPPRESS AMA is "Y", the ACT fields for SFID 331 and SFID 558 must also be set to "Y".

2.317 TCW RAX

Description: This field indicates the rate center for Talking Call Waiting parameters.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no TCW RAX, or 1 - 999

Data Rules:

When TCW SCR is not entered, TCW RAX must be zero or must not be entered.

2.318 TCW CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no TCW CODE RESTRICT, or 1 - 125

Data Rules:

When TCW SCR is not entered, TCW CODE RESTRICT must be zero or must not be entered.

2.319 VIRTUAL SWITCH

Description: VIRTUAL SWITCH field indicates whether or not this CP (Call Processing) node is a part of a virtual switch. (i.e. the switch is a host for DRM or a DRM itself). Is this call processing node part of a virtual switch? For more information, see Division 2, Section 4A525.

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When PRODUCT is "DRM", VIRTUAL SWITCH must be "Y".

The Distinctive Remote Module feature is a Secured Feature which must be purchased by the office before VIRTUAL SWITCH on the OFCOPT form may be set to "Y". An SFSYS form must exist with SFID 525 ACT set to "Y".

CALEA

The following fields (Section 2.320 - Section 2.322) define the fields used for the CALEA feature. For more information on this feature see Division 2, Section 4A509.

The CALEA (The Communication Assistance for Law Enforcement Act) feature is a Secured Feature, that

must be purchased by the office before the following CALEA fields can be changed. An SFSYS form must exist with SFID 509 ACT set to "Y".

2.320 CALEA SM

Description: The CALEA SM field is used to indicate the delivery SM for the call content channels. For more information, see Division 2, Section 4A509.

Software Release: 5E14 and later

Valid Entries: 1 - 192

Data Rules:

When CALEA SM is greater than 0, a SFSYS form must exist with SFID 509 ACT set to "Y".

2.321 ADMIN ACCESS

Description: Should access to non - CALEA views be allowed? The ADMIN ACCESS field gives 5E personnel an option to restrict the CALEA personnel from access to the 5E data. For more information, see Division 2, Section 4A509.

Software Release: 5E15 and later

Required field.

Default: N

Valid Entries: Y, N

2.322 TD LIMIT

Description: The TD LIMIT field, supports the CALEA Punch List Dialed Digit Extraction message solution. This field provides a threshold for tone decoders. Therefore, when a particular SM gets close to use all of its tone decoders on regular phone calls and surveillance, CALEA Punch List code will detect the situation (based on the threshold and number of tone decoders of that particular SM) and free up the tone decoder used by the surveillance to the regular phone calls. For more information, see Division 2, Section 4A509.

Software Release: 5E15 and later

Required field.

Default: 50

Valid Entries: 0 - 90 percent

CALL SCREENING

The following fields (Section 2.323 - Section 2.324) define the interval duration for the screening and monitoring phases of a forwarded call for the Forwarded Call - Call Screening feature. The screening phase is the period of time when a forwarded call is made available for screening. The monitoring phase is the period of time when a subscriber is allowed to monitor a forwarded call. For more information on this feature see Division 2, Section 4A526.

2.323 T SCREEN

Description: This field is used to define the duration of the screening phase.

Software Release: 5E14 and later

Required field.

Default: 20

Valid Entries: 6 - 60 seconds

2.324 CS MONITOR

Description: This field is used to define the duration of the monitoring phase.

Software Release: 5E14 and later

Required field.

Default: 60

Valid Entries: 0 - 180 seconds where 0 indicates no time limit

USAGE SENSITIVE CALL FORWARDING

The following fields (Section 2.325 - Section 2.326) were added to support the Usage Sensitive Call Forwarding feature. For more details on this feature, refer to Division 2, Section 4A544.

2.325 USCF FEAT

Description: Usage Sensitive Call Forwarding feature name. This field indicates which call forwarding feature is activated when USCF ALW and USCF ACT on the LINE form (Record 5109) are "Y".

Software Release: 5E15 and later.

Valid Entries: Up to eight alphanumeric characters.

Data Rules:

When USCF FEAT is entered, the following must be true:

ACT must be "Y" on the SFSYS form for SFID 544

The feature name in the USCF FEAT field must be defined on a CFWFD form with FWD CONDITION set to "BOTH" and ACT TYPE set to "CDCA1A" or "CDDNCA".

2.326 USCF CFV ALERT

Description: Should alerting be provided when a call is forwarded by USCF FEAT?

Software Release: 5E15 and later.

Required Field.

Default: N

Valid Entries: Y or N

Data Rules:

When USCF CFV ALERT is "Y", USCF FEAT must be entered.

SESSION INITIATION PROTOCOL

The field under this heading was added to support the SIP (Session Initiation Protocol) for Packet Trunking feature. For more information see Division 2, Section 4A684.

2.327 COUNTRY CODE

Description: This field represents the Home Country Code.

Software Release: 5E16(2) FR 3 and later

Valid Entries:

Valid COUNTRY CODE Entries	
Entry	Definition
0	SIP-T processing is not available in the office.
1-999	Country Code

Data Rules:

When the ACT field for SFID 684 is "N" on the SFSYS form (5713-1 Record), COUNTRY CODE must be 0.

When GSM is not defined on the SIPGSM form (5880 Record), COUNTRY CODE must be 0.

When GSM is defined on the SIPGSM form, COUNTRY CODE must not be 0.

2.328 NATIONAL CIRCUIT CODE

Description: This field specifies the SIP (Session Initiation Protocol) National Circuit Code value. This field supports the SIP (Session Initiation Protocol) Enhancements to PSTN (Public Switched Telephone Network) Gateway feature. For more information see, Division 2, Section 5R.

Software Release: 5E16(2) FR 6 and later

Default: 0

Valid Entries:

Valid NATIONAL CIRCUIT CODE Entries	
Entry	Definition
0	SIP-T processing is not available in the office.
3 - 15	SIP National Circuit Code

USAGE SENSITIVE SIX -WAY CALLING

The following fields (Section 2.329 - Section 2.331) were added to support the Usage Sensitive Six-Way Calling feature. For more information on this feature, see Division 2, Section 4A553.

2.329 USSWC FEAT

Description: Usage Sensitive Six-Way Calling Multiway feature name. This field is optional. It is used to store the Usage Sensitive Six-Way Calling Multiway feature name if the feature is enabled in the office. If left blank, the feature is not active in the office. To activate the feature, a Usage Sensitive Six-Way Calling feature or the preconstructed feature "/MWUSSWC" (Multi-Way Usage Sensitive Six-Way Calling) can be entered in this field

Software Release: 5E15 and later

Valid Entries: Blank, or enter 1 - 8 characters to activate.

For 5E15 and later:

USSWC (Usage Sensitive Six-Way Calling) is a secured feature and must be purchased by the office before the USSWC FEAT, USSWC ACT, and USSWC CHRG fields can be entered and/or changed for the USSWC feature. Consequently, the ACT field for SFID 553 must be set to "Y" on the SFSYS form (5713-1 Record) before this field and the USSWC ACT and USSWC CHRG fields can be entered and /or

changed. (For more information about the USSWC feature, see Division 2, Section 4A553.)

When the USSWC FEAT field is entered on this form, the USSWC FEAT name must be defined on the MWFD form (5602 Record) where the appropriate fields on the MWFD form are set as follows:

FEATURE OPTIONS fields: ACT/INACT OPTION must be set to "ACT1CA", MULTIWAY CONTROL must be set to "NWAY", and AMAC must be set to "USAGE",

ENTRY POINT fields: FLASH must be set to "Y", IN MIDDLE must be set to "Y", and OFF HOOK must be set to "Y", and

DEFAULT PARAMETER field: N-WAY MAXIMUM must be set to "6".

2.330 USSWC ACT

Description: Should a Usage Sensitive Six-Way Calling AMA activation record be created? This field is used to determine if Usage Sensitive Six-Way Calling AMA activation records should be made in the office when USSWC calls are made. This field supports the Usage Sensitive Six-Way Calling feature. For more information on this feature, see Division 2, Section 4A553.

Software Release: 5E15 and later

Required field.

Default: N

Valid Entries: Y, N

Data Rules:

When USSWC ACT is "Y", USSWC FEAT must be entered.

For 5E15 and later, when the ACT field on the SFSYS form (5713-1 Record) for SFID (Secured Feature ID) 553 is set to "Y", the USSWC ACT field can be changed to "Y". (For more detailed information on the Usage Sensitive Six-Way Calling, see Division 2, Section 4A553.)

2.331 USSWC CHRG

Description: Should a Usage Sensitive Six-Way Calling AMA charge record be created? This field is used to determine if Usage Sensitive Six-Way Calling AMA charge records should be made in the office when USSWC calls are made. This field supports the Usage Sensitive Six-Way Calling feature. For more information on this feature, see Division 2, Section 4A553.

Software Release: 5E15 and later

Required field.

Default: N

Valid Entries: Y, N

Data Rules:

When USSWC CHRG is "Y", USSWC FEAT must be entered.

For 5E15 and later, when the ACT field on the SFSYS form (5713-1 Record) for SFID (Secured Feature ID) 553 is set to "Y", the USSWC CHRG field can be changed to "Y". (For more detailed information on the Usage Sensitive Six-Way Calling, see Division 2, Section 4A553.)

CGA OPTIONS

2.332 CGA BUNDLE

Description: Bundled carrier group alarm report? This field was added to support the PCT Line/Trunk (PLTU) feature. For more information on this feature, see Division 2, Section 7AP.

Software Release: 5E15 and later

Default: Y

Valid Entries: Y, N

2.333 INH VACANT FAC

Description: The Inhibit Vacant Facility field is used to activate/deactivate the Inhibit CGA (Carrier Group Alarm) feature. For more information on this feature, see Division 2, Section 4B1012.

Software Release: 5E16(2) and later

Default: N

Valid Entries: Y, N

Data Rules:

When INH VACANT FAC is "Y", the ACT field for OFID 1012 on the FOSYS form (5713-2 Record) must also be set to "Y".

2.334 VACANT FAC REPT TIME

Description: The Vacant Facility Report Time field is used to specify the hour of the day in which the daily automatic vacancy report will be generated. This field supports the Inhibit CGA feature.

Software Release: 5E16(2) and later

Default: 0

Valid Entries: 0 - 23

Data Rules:

When VACANT FAC REPT TIME is a non-zero value, the ACT field for OFID 1012 on the FOSYS form (5713-2 Record) must also be set to "Y".

DRM

The following fields (Section 2.335 - Section 2.337) provide alarm control for the DRM (Distinctive Remote Module) feature. For more information on this feature, see Division 2, Section 4A525.

2.335 ALARM OUTPUT OPT

Description: Should the alarm output option be turned on for this site?

Software Release: 5E14 and later

Required field.

Default: N

Valid Entries: Y, N

Data Rules:

When PRODUCT is not "DRM", ALARM OUTPUT OPT must be "N".

When ALARM OUTPUT OPT is "Y", ALARM DURATION must be entered.

When ALARM OUTPUT OPT is "N", ALARM DURATION must not be entered.

When the ALARM OUTPUT OPT field is set to "Y" on the OFCOPT form, the ALARM POINTs (50 - 54 & 100 - 113) should be assigned on the RALM forms for the SM defined on the EQIM form.

When the ALARM OUTPUT OPT field is set to "Y" on the OFCOPT form, there must be an EQRAU form for the SM defined on the EQIM form.

2.336 ALARM INPUT OPT

Description: Should the alarm input option be turned on for this site?

Software Release: 5E14 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When PRODUCT is not "DRM", ALARM INPUT OPT must be "N".

When the ALARM INPUT OPT field is set to "Y" on the OFCOPT form, the ALARM POINTs should be assigned on the RALM forms for the SM defined on the EQIM form.

2.337 ALARM DURATION

Description: Alarm duration for output alarms.

Valid Entries: Blank, or enter 5 - 300 seconds.

Data Rules:

When PRODUCT is not "DRM", ALARM DURATION must not be entered.

PLATFORM CUTOVER

The following fields (Section 2.338 - Section 2.340) are added to support the SS7 (Signaling System 7) PSU (Packet Switching Unit) feature. For more information on this feature, see Division 2, Section 7BA.

2.338 CUTOVER MODE

Description: This field indicates whether or not the office is in signaling cutover mode. This is a display only field for ODA.

Software Release: 5E15 and later

Default: NONE

2.339 HOST PLAT 1

Description: This field indicates the signaling platform acting as the primary interface to the SS7 network when CUTOVER MODE is set to "PRECUT". This is a display only field for ODA.

Software Release: 5E15 and later

2.340 HOST PLAT 2

Description: This field indicates the signaling platform acting as the primary interface to the SS7 network when CUTOVER MODE is set to "POSTCUT". This is a display only field for ODA.

Software Release: 5E15 and later

SS7 CONNECTION HOLD TIMERS

This field supports the SS7 Using Operator Services feature. For more information see, Division 2, Section 4A603.

2.341 END OFFICE

Description: This field indicates the time in seconds to wait for a Connection Hold Release from operator services switch used at the originating end office.

Software Release: 5E16 and later.

Default: 120

Valid Entries: 60 - 240 seconds

CRITICAL INDICATORS

The following fields (Section 2.342 - Section 2.358) support the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY.

2.342 CRIT EXPANDED INBAND SGNLING

Description: The CRIT EXPANDED INBAND SGNLING field is used to indicate whether the EXPANDED INBAND SGNLING field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.343 CRIT NM DEFAULT NPA

Description: The CRIT NM DEFAULT NPA field is used to indicate whether the NM DEFAULT NPA field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.344 CRIT HOME NPA

Description: The CRIT HOME NPA field is used to indicate whether the HOME NPA field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.345 CRIT EXTRA START WINK

Description: The CRIT EXTRA START WINK field is used to indicate whether the EXTRA START WINK field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.346 CRIT CPE OPTION

Description: The CRIT CPE OPTION field is used to indicate whether the CPE OPTION field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.347 CRIT OFFICE TYPE

Description: The CRIT OFFICE TYPE field is used to indicate whether the OFFICE TYPE field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.348 CRIT E911 OPTION

Description: The CRIT E911 OPTION field is used to indicate whether the E911 OPTION field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.349 CRIT E911 DAS

Description: The CRIT E911 DAS field is used to indicate whether the E911 DAS field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.350 CRIT E911 SCR

Description: The CRIT E911 SCR field is used to indicate whether the E911 SCR field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.351 CRIT IHN SCP NPA DEL

Description: The CRIT IHN SCP NPA DEL field is used to indicate whether the IHN SCP NPA DEL field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.352 CRIT SCP 800 DAS

Description: The CRIT SCP 800 DAS field is used to indicate whether the SCP 800 DAS field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.353 CRIT FGD PHASE

Description: The CRIT FGD PHASE field is used to indicate whether the FGD PHASE field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.354 CRIT TCAP CIC

Description: The CRIT TCAP CIC field is used to indicate whether the TCAP CIC field is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.355 CRIT USTWC FEAT

Description: The CRIT USTWC FEAT field is used to indicate whether the USTWC FEAT field is critical.

Software Release: 5E13 and later

Required Field.
Default: N
Valid Entries: Y, N

2.356 CRIT USTWC ACT

Description: The CRIT USTWC ACT field is used to indicate whether the USTWC ACT field is critical.

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

2.357 CRIT SPONT AVAIL

Description: The CRIT SPONT AVAIL field is used to indicate whether the SPONT AVAIL field is critical.

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

2.358 CRIT CICP BLOCK

Description: The CRIT CICP BLOCK field is used to indicate whether the CICP BLOCK field is critical.

Software Release: 5E13 and later
Required Field.
Default: N
Valid Entries: Y, N

CIC ALLOCATION

The following fields (Section 2.359 - Section 2.362) supports the BICC (Bearer Independent Call Control) Static CIC Allocation feature. For more information on this feature, see Division 2, Section 7BF.

2.359 CAMPON TIMER

Description: This field indicates the number of minutes to be used for camp-on when the "Automatic Start CIC (Call Instance Code) Growth Process" parameter is set to "Y" or the CAMPON parameter is not specified in the MML (Man Machine Language) command.

Software Release: 5E16 and later
Default: 20
Valid Entries: 1 - 60

2.360 KILL CALLS

Description: This field specifies whether or not BICC Calls on selected CIC block will be killed when the camp-on timer expires. It also is used when the UNCONTIONAL parameter is not specified in the MML command.

Software Release: 5E16 and later

Default: Y
Valid Entries: Y, N

2.361 GROWTH VIA RCV

Description: This field specified whether or not adding an SM2000 to the CIC Distribution (RC/V (Recent Change and Verify) 5.70) will trigger the CIC SM (Switching Module) Growth process.

Software Release: 5E16 and later
Default: N
Valid Entries: Y, N

Data Rules:

For 5E16(2) FR 3 and later, when GROWTH VIA RCV is "Y", then a BICC Packet group must be defined on the PKTGRP form (5219 Record), and the CICDIST form (5217 Record) must exist.

2.362 PRINT ASSERT NAME

Description: This field is used to indicate whether or not an assert name should be printed.

Software Release: 5E16(2) and later
Default: N
Valid Entries: Y, N

On-Hook Data Transmission

2.363 OFC FSK OSI

Description: This field is used to indicate the per-office parameter provided to control the sending of the OSI (Open Signaling Interval).

Software Release: 5E15 and later
Default: N
Valid Entries: Y, N

Data Rules:

For 5E15 and later, when OFC FSK OSI is set to "Y", the ACT field for SFID 613 on the SFSYS form (5713-1 Record) must also be set to "Y".

BICC TIMERS/RANGES

The following fields (Section 2.364 - Section 2.382) are fields that support the PSAX Separate BICC (Bearer Independent Call Control) Timers feature. For more information on this feature, see Division 2, Section 10D.

2.364 BICC ADDR COMP

Description: This field is used to indicate the time to wait (in seconds) for the CCS (Common Channel Signaling) address complete message using the BICC protocol.

Software Release: 5E16 and later
Required Field.

Default: 25

2.365 BICC COT

Description: This field is used to indicate the time to wait (in seconds) for the CCS continuity message using the BICC protocol.

Software Release: 5E16 and later

Required Field.

Default: 12

2.366 BICC CQ START TIME

Description: This field is used to specify the hours past midnight that the daily automatic office-wide BICC circuit query starts.

Software Release: 5E16 and later

Required Field.

Default: 4

2.367 BICC GBLO RSND

Description: This field indicates the global BICC group block resend (in seconds).

Software Release: 5E16 and later

Required Field.

Default: 10

2.368 BICC GRS RSND

Description: This field indicates the BICC group reset resend timer (in seconds).

Software Release: 5E16 and later

Required Field.

Default: 10

2.369 BICC GUBL RSND

Description: This field indicates the BICC group unblocking resend timer (in seconds).

Software Release: 5E16 and later

Required Field.

Default: 10

2.370 BICC CQM RSND

Description: This field indicates the BICC circuit query timer value (in seconds) that is used when waiting for a reply to a circuit query message.

Software Release: 5E16 and later

Required Field.

Default: 10

2.371 BICC RLC SHORT

Description: This field indicates the time to wait in seconds for the CCS release complete message using BICC protocol.

Software Release: 5E16 and later

Required Field.

Default: 10

2.372 BICC RLC LONG

Description: This field indicates the time to wait (in seconds) for the CCS release complete message using BICC protocol.

Software Release: 5E16 and later

Required Field.

Default: 60

2.373 BICC RS RSND

Description: This field indicates the global BICC reset resend (in seconds).

Software Release: 5E16 and later

Required Field.

Default: 10

2.374 BICC SUS

Description: This field indicates the time to wait (in seconds) for the CCS SUS message using the BICC protocol.

Software Release: 5E16 and later

Required Field.

Default: 15

2.375 MAX RNG BGB BGU

Description: This field indicates the maximum value for range in BIC GB/GU messages.

Software Release: 5E16 and later

Required Field.

Default: 127

2.376 MAX RNG BGRS

Description: This field indicates the maximum value for range in BICC GRS messages.

Software Release: 5E16 and later

Required Field.

Default: 127

2.377 UNI SETUP IND

Description: This field indicates the time to wait (in seconds) for the UNI_SETUP_IND message (Sapphire UNI Setup Indicating Message) at the Originating Packet Switch.

Software Release: 5E16 and later

Required Field.

Default: 15

2.378 UNI CONN CFM

Description: This field indicates the time to wait (in seconds) for UNI_CONNECT_CFM message (Sapphire UNI Connect Confirmation Message) at the Originating Packet Switch.

Software Release: 5E16 and later

Required Field.

Default: 15

2.379 UNI CONN IND

Description: This field indicates the time to wait (in seconds) for UNI_CONNECT_IND message (Sapphire UNI Connect Indicating Message) at the TPS (Terminating Packet Switch).

Software Release: 5E16 and later

Required Field.

Default: 10

2.380 UNI REL CFM

Description: This field indicates the time to wait (in seconds) for UNI_RELEASE_CFM message (Sapphire UNI Release Confirmation Message.)

Software Release: 5E16 and later

Required Field.

Default: 5

2.381 UNI REL IND

Description: This field indicates the time to wait (in seconds) for UNI_RELEASE_IND message (Sapphire UNI Release Indicating Message).

Software Release: 5E16 and later

Required Field.

Default: 5

2.382 UNI IWG REL

Description: This field indicates the time (in seconds) to wait for the BICC release prior to passing an IWG (InterWorking Gateway) release event to BICC.

Software Release: 5E16 and later

Required Field.

Default: 2

Valid Entries: 1 - 4

2.383 COMFORT NOISE GEN

Description: This field contains the type of comfort noise generations. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). For more information on this feature, see Division 2, Section 7BX.

Default: IDLE

Valid Entries: Blank, IDLE or HOTH

2.384 OPS APM TIMER

Description: This field is used to specify in seconds how long the OPS (Originating Packet Switch) waits for an APM (Application Transport Message) from the TPS (Terminating Packet Switch). This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. For more information on this feature, see Division 2, Section 7BX.

Default: 10

Valid Entries: 1 - 30

2.385 TPS APM TIMER

Description: This field is used to specify in seconds how long the TPS (Terminating Packet Switch) waits for an APM (Application Transport Message) from the OPS (Originating Packet Switch). This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. For more information on this feature, see Division 2, Section 7BX.

Default: 10

Valid Entries: 1 - 30

2.386 INTG IDENTIFIER

Description: This field is used to specify the global default Inter-Nodal traffic group identifier. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. For more information on this feature, see Division 2, Section 7BX.

Default: 0

Valid Entries: 1 - 65535

2.387 GSM ESCALATION

Description: This global parameter field is used for the enhancements to CCS (Common Channel Signaling) operation on a PSU (Packet Switching Unit) signaling platform in a wireless environment. It supports the GSM Escalation Strategy Enhancements feature. For information on this feature see, Division 2, Section 7CD.

Software Release: 5E16(1) FR 4 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When GSM ESCALATION is "Y", CUTOVER MODE must not be "PRECUT" or "POSTCUT".

When SM on the EQPSU form (5741 Record) is defined as a GSM on the CCGSM form (6008 Record), and the GSM ESCALATION field on this form is set to "Y", the CRIT PSU on the EQPSU form must not be set to "Y" on any GSM with dual PSUs set to 1.

When GSM ESCALATION is "Y", AMPS DCS GSM must be entered and must be a value greater than zero on the APXPARM form (5050 Record).

2.388 SPOP

Description: The SPOP (Signaling PH Outage Prevention) field is an officewide parameter used to indicate whether Signaling PH Outage Prevention function is turned on or off for this office.

Software Release: 5E17 and later

Required Field.

Default: OFF

Valid Entries: ON, OFF

GDX

The following fields (Section 2.389 - Section 2.390) supports the Shared Use of GDX Compensators on a Priority Basis feature. For more information on this feature, see Division 2, Section 4B1016.

2.389 SHARED COMPENSATOR MODE

Description: This field indicates whether or not the Shared Use of Compensatore on a Priority Basis feature is active.

Software Release: 5E16(2) FR 4 and later

Default: N

Valid Entries: Y, N

2.390 INHIBIT MTIBS USE

Description: The Inhibit Use of Metallic Test Interface Buses field indicates whether or not the ability of non-ALIT (Automatic Line Insulation Test) access requests to interrupt ALIT is allowed.

Software Release: 5E16(2) FR 4 and later

Default: N

Valid Entries: Y, N

2.391 MH REHOMING ENA

Description: This is a display only field that supports the MHPPC (Message Handler PowerPC) and MH0 features. For more information, see Divisionn 2, Section 8AP, and Division 2, Section 8AO, respectively.

Software Release: 5E16(2) FR 5 and later

Default: N

Valid Entries: Y, N

2.392 TSI CNT

Description: The Growable Time Slot Interchange slices count field indicates the total number of growable TSI slices equipped on all SM-XCs in the office.

Software Release: 5E16(2) FR 6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.393 TSI LIMIT

Description: The Time Slot Interchange Limit field indicates the limited amount of growable TSI slices that can be equipped on all SM-XCs in the office.

Software Release: 5E16(2) FR 6 and later

Required Field.

Default: N

Valid Entries: Y, N

2.394 ENHANCED BUFF

Description: The ENHANCED BUFF field is used to indicate whether or not the Enhanced 5E Traffic Measurement feature is turned on.

Software Release: 5E20(1) and later

Required Field.

Default: N

Valid Entries: Y, N

8.1/8.15 Field Name VS OFCOPT Field Names

RC View	RC Field Name	OFCOPT Field Name
8.1	5 MIN PST	5 MIN PERM SIG THRESHOLD
8.1	ACG FNL TRMT	FNL TREAT
8.1	ALITDURATION	ALIT DURATION
8.1	ALITHRSTART	ALIT START TIME
8.1	ALLABND	ALL ABANDONS?
8.1	ALLOW TTF	ALLOW TOUCH TONE FRAUD
8.1	ALLOW TTF	ALLOW TOUCH TONE FRAUD?
8.1	ALLSUPV	SSU ON ALL CALLS?
8.1	AMAOPTION	AMA METHOD
8.1	APOPTION	APPLICATION PROCESSOR
8.1	ASPAI	ASP ANI
8.15	BLO RSND	BLORSND
8.1	CARRID	CARRIER ID
8.1	COIN INT	STUCK COIN REPORT
8.1	CPE	CPE OPTION
8.1	CPE	CPE OPTION?
8.1	CUTTRANS	CUTOVER
8.1	DAS	LTP DAS
8.15	DLN EQUIP	DIRECT LINK NODE
8.1	DN PRIV	DN PRIVACY?
8.1	DRCOUNTTYPE	DIV OF REV COUNT TYPES
8.1	DRCOUNTTYPE	DIV OF REV COUNT TYPES?
8.1	DRHRLY	DIV OF REV HOURLY RPTS
8.1	DRHRLY	DIV OF REV HOURLY RPTS?
8.1	DRON	ACTIVATE DIV OF REV
8.1	DRON	ACTIVATE DIV OF REV?
8.1	DST	DAYLIGHT SAVINGS TIME
8.1	DST	DAYLIGHT SAVINGS TIME?
8.1	DURATION	APT DURATION
8.1	EADAS LINT	EADAS LINK?
8.1	EXSIG	EXPANDED INBAND SGNLING
8.1	EXSIG	EXPANDED INBAND SGNLING?
8.1	HOMENPA	HOME NPA
8.1	HRSTART	APT START TIME
8.1	HRSTART	START HOUR
8.1	ICSUPV	SSU ON INTERLATA?

8.1	ICTERM	TERMINATING INTERLATA?
8.1	IMLT2	IMLT-2 ?
8.1	IMPLD NPA	NM DEFAULT NPA
8.1	INC WINK	EXTRA START WINK
8.15	LATA	LATA NUMBER
8.1	LITRANGE	ALIT RANGE
8.1	LITTYPE	ALIT TYPE
8.1	LOCABND	LOCAL ABANDONS?
8.1	LOCANSW	LOCAL ANSWERED CALLS?
8.1	LOCSUPV	SSU ON LOCAL CALLS?
8.1	NT1 TYPE	BRI TYPE
8.15	OFFICE ID	COMMON CHAN SIG
8.1	OPEN INT	OCTL OPEN DURATION
8.1	PERC1SILC	NM SILC LEVEL 1
8.1	PERC2SILC	NM SILC LEVEL 2
8.1	POTENT	COIN RETURN POTENTIAL
8.1	PRINT TTF	PRINT TOUCH TONE FRAUD
8.1	PRINT TTF	PRINT TOUCH TONE FRAUD?
8.1	REVMAN	MFR REVERTIVE MANUAL?
8.1	RING TOT	RINGING TIMEOUT
8.1	RUNFRI	APT FRI
8.1	RUNMON	APT MON
8.1	RUNSAT	APT SAT
8.1	RUNSUN	APT SUN
8.1	RUNTHR	APT THR
8.1	RUNTUE	APT TUE
8.1	RUNWED	APT WED
8.1	SCR	LTP SCR
8.1	SPECABND	SPECIAL ABANDONS?
8.15	SSP	SERV SWITCH PT?
8.1	SST	SHORT SUPERVISORY TRANSITIONS
8.1	TIMEZONE	TIME ZONE
8.1	TOLLABND	TOLL ABANDONS?
8.1	TOLLSUPV	SSU ON TOLL CALLS?
8.1	TOE DUR	OCTL TONE DURATION
8.1	TRKTRCD1	CODE 1
8.1	TRKTRCD2	CODE 2
8.1	TRKTRCD3	CODE 3
8.1	TRKTRCD4	CODE 4
8.1	VAR INT	VAR TIME PERM SIG INTERVAL
8.1	VAR PST	VAR TIME PERM SIG THRESHOLD

Figure 1 CORRESPONDING RC FIELDS WHICH DIFFER FROM ODA FIELDS

```

ofcopt                               5ESS Switch
SCREEN 1 OF 17                       OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

*1. KEY                             0           13. EOP TRUNKS           _____
2. OFFICE ID                         _____ 14. EOP SCR             _____
3. TIME ZONE                         -6          15. EOP CDI             _____
4. DAYLIGHT SAVINGS TIME            _          20. EADAS LINK         _
5. COIN RETURN POTENTIAL            _____ RCVERBOSE          _
6. EXPANDED INBAND SGNLING          _          22. RNM LINK           N
7. STUCK COIN REPORT                _____ 23. ACTIVATE DIV OF REV _
8. LTP SCR                          _____ 24. DIV OF REV HOURLY RPTS _
9. LTP DAS                          _____ 25. DIV OF REV COUNT TYPES _____
10. AM ODD MEMORY SIZE              10240      26. 5 MIN PERM SIG THRESHOLD _____
11. ODD DISK SIZE                   8992        27. VAR TIME PERM SIG THRESHOLD _____
12. EOP LINES                       _____ 28. VAR TIME PERM SIG INTERVAL _

```

```

ofcopt                      5ESS Switch
SCREEN 2 OF 17              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

29. ALLOW TOUCH TONE FRAUD N      39. BATCH CLEANUP INHIBIT Y
30. PRINT TOUCH TONE FRAUD N
31. DSN OPTION                    N      TRUNK ERROR ANALYSIS
32. CPE OPTION                    N      >40. ROUTE TO TERA?          Y
33. SES                          _____ 41. ERROR THRESHOLD          03
                                     >42. MFR REVERTIVE MANUAL? N
                                     43. LOCAL TRAF MEAS CHANNEL SUMMARY
                                     44. IMLT-2?                _
>34. BATCH RC/V INTERVAL          01      45. APPLICATION PROCESSOR    NO
35. BATCH RC/V RELEASE TIME      00      46. CARRIER ID              _____
36. BATCH RC/V CLEANUP AGE        14      47. TOLL CARRIER            _____
37. BATCH RC/V CLEANUP TIME      00:00    48. ICLATA SCD IND          N
38. BATCH RC/V INHIBIT            Y

```

```

ofcopt                      5ESS Switch
SCREEN 3 OF 17              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

49. RINGING TIMEOUT _____ 58. DIRECT LINK NODE _      68. OFFICE TYPE N
59. ORIG SCREEN OFF _
CAMA TRUNK TROUBLE CODE      60. HOME NPA              _____
>50. CODE 1 _____        61. ACT PT SDN            N
51. CODE 2 _____        62. SERV SWITCH PT?    N
52. CODE 3 _____        63. LATA NUMBER          _____
53. CODE 4 _____        >64. EXTRA START WINK N
                                     OPC              _____
>54. NM DEFAULT NPA          _____
55. NM SILC LEVEL 1          0.0      EQUAL ACCESS
56. NM SILC LEVEL 2          0.0      >66. TIME                300000
>57. COMMON CHAN SIG NO      67. OVERLOAD TIME 15000

```

```

ofcopt                      5ESS Switch
SCREEN 4 OF 17              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

69. OFFICE CARRIER LEC      79. LOCAL ABANDONS?      N
80. TOLL ABANDONS?          Y
AMA RECORDING OPTIONS      81. SPECIAL ABANDONS?    N
>70. AMA METHOD              AMATPS 82. ALL ABANDONS?        N
71. AMADNS ACTIVE          N      83. SSU ON LOCAL CALLS?  N
72. MIN AMA ALRM           70      84. SSU ON TOLL CALLS?  N
73. MAJ AMA ALRM           90      85. LOCAL COIN          N
74. CRIT AMA ALRM          100     86. SSU ON ALL CALLS?   N
75. ISDAMAOPT              Y      87. TERMINATING INTERLATA? Y

```

76. ISVMAOPT	N	88. SSU ON INTERLATA?	N
77. SHORT SUPERVISORY TRANSITIONS	N	89. HR INWATS OVERFLOW RECORD?	N
78. LOCAL ANSWERED CALLS?	Y	90. DID TIMEOUT	05

```

ofcopt                      5ESS Switch
SCREEN 5 OF 17              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

91. CMC WINK CONNECT      N          TESTING OPTIONS
92. AMA ERROR MIN ALRM    N          >101. ALIT START TIME _____
93. LDC GEN TIME          00:00      102. ALIT DURATION      _
94. TRUNK                  N          103. ALIT RANGE        _
95. OPER                   N          104. ALIT TYPE          _____
96. ORIG UNBUNDLED        N
97. ORIG RESOLD           N          >105. APT START TIME _____
98. TERM UNBUNDLED        N          106. APT DURATION      _
99. TERM RESOLD           N
100. UNBLD/RESLD SC       500      DAYS ON WHICH APT TESTING IS TO BE CONDUCTED
                                   107. SUN      _
                                   108. MON      _

```

```

ofcopt                      5ESS Switch
SCREEN 6 OF 17              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

109. TUE _                118. THIRD _____                126. 8 HR FREQ 8
110. WED _                127. TIME OUT 4
111. THR _
112. FRI _                MSU/MMSU ALARMS REPORTS
113. SAT _                >119. MISCELLANEOUS ALM OPT N
                                   120. OVERLAP SIZE      01
                                   121. DN PRIVACY?      N
>114. OCTL TONE DURATION 050 122. ISP DIGITS      2
115. OCTL OPEN DURATION 030 123. FAIL ID      _____

      TWS FOR 101TL          LEASED NETWORK
>116. FIRST  LOCAL          124. 8 HR SCAN  N
117. SECOND  _____     125. 8 HR START 01

```

```

ofcopt                      5ESS Switch
SCREEN 7 OF 17              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

128. GLBL TITLE    000000
129. DAS           _
130. ACTION POINT  N

```



```

ofcopt                      5ESS Switch
SCREEN 8 OF 17              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      PPM PULSE WIDTH      138. FALSE LINK CONG LVL2      DEFAULT BRI TYPE
131. ISLU BATTERY          0                                >#143. BRI TYPE _____
132. ISLU TONE              0      INTERNATIONAL OUTBOUND CALL
133. ISLU THIRD WIRE        0      139. TRAD 2-STAGE PST 010000      CDMA DTMF
                                  140. TRAD 2-STAGE PDT 020000      144. OVERRIDE      N
                                  145. LENGTH ON      _____
SPECIAL ACCESS              141. RM RTG RESTRCT Y      146. LENGTH OFF      _____
134. SP ACCESS N

      CCS FEATURES          Q931 PROTOCOL OPTIONS
135. EXPANDED SLS          N      142. CAUSE LOC PUB
136. IMPROVED SLT          N
137. MTP NODE RESTART N

```

```

ofcopt                      5ESS Switch
SCREEN 9 OF 17              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      PERFORMANCE MONITORING      ISUP      ON-LINE OFFICE RECORDS
147. DSL PM ENABLE      Y      156. CRA TIMER      25      >166. ENABLED?      N
148. REPORT INT          01      157. EXM D TIMER      0300      167. START HOUR      23
149. CRC SES RATE        3      158. BUSY ANNC      N      168. DURATION        04
150. MAX NO THR GRPS     256      159. LEC ANNC      N      169. SUN              N
151. PM TIME              0      160. LEC IW REL      N      170. MON              Y
152. BPV SES RATE        307      161. BLANK NBR REL      N      171. TUE              Y
153. FAC PM ENABLE      Y      162. RCD 3PT1 ITC      SPEECH      172. WED              Y
                                  163. CICP BLOCK      N      173. THR              Y
                                  164. IAM CRM PRIOR      1      174. FRI              Y
MISMATCH DETECTION        165. OFC OLI      00      175. SAT              N
154. ENABLE Y
155. REPORT N

```

```

ofcopt                      5ESS Switch
SCREEN 10 OF 17             OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      HOME INTERCOM          SLC96 T1 FACILITIES          911
176. MAX RING TIME 180      >#181. OFF NORMAL _      187. TIMING DELAY 0
177. MAX HOLD TIME 180
178. MAX TALK TIME 10

                                  ISVM OPTION          ENHANCED 911
                                  182. ISVM TCAP TIMER 03      188. E911 OPTION      INACTIVE
SERIES COMPLETION              189. E911 DAS      _____
      DEL BCK LNK Y          REMOTE DIGITAL TEST ACCESS      190. E911 SCR      _____
PER CALL TEST FAILURE          183. RDTA SCRNX ID      _____      191. E911 LN SFG      _____
      PCTF INT 60M          184. RDTA DAS      _____      192. E911 TRK SFG      _____
                                  185. BRI MAX SESSION      _____

```

186. RDTA PIC _____ PRIM E911 APID _
SEC E911 APID _

ofcopt 5ESS Switch
SCREEN 11 OF 17 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

195. ESA SW TIME 0 ESSENTIAL SVC PROTECT FEATURE GROUP D
196. E911 CESID BN 200. ESP NORM ALW N 206. FGD PHASE PREPHASE
207. TCAP CIC N

OUTBOUND SERVICES SSP 800
ALT SIG SM _____ 201. INH SCP NPA DEL N SPEECH ROUTING
202. SCP 800 DAS _____ SPEECH TRK GRPS _____

INDIV DIALING PLAN
198. IDP DESEP _____ MDII NETWORK RELEASE
203. MDII INTERVAL 0 209. OLDEST RELEASE _____
204. MDDI THRESHOLD 20
199. ASI ON N 205. MDDI MAJOR ALARM N CKT SWITCHED TRUNK
210. CST DAS _____

ofcopt 5ESS Switch
SCREEN 12 OF 17 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

USTWC PHA
211. USTWC FEAT _____ 217. CONG1 QCAP 50
212. USTWC ACT N 218. CONG2 QCAP 80
213. USTWC CHRG N 219. ATM LAYER SONET
214. SPONT AVAIL UNAVAIL 220. REV QLTY THRESH 0

NETWORK ACCESS INTERRUPT (NAI)
215. TOLL N CNIS INTRAGROUP DELIVERY
221. CNIGI NORSTRCT

DNUS
216. FI SWITCH INT 028

ofcopt 5ESS Switch
SCREEN 13 OF 17 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

CALL WAITING DELUXE LONG DISTANCE PLATFORM INCREASED TGN
222. ALERT TYPE CWD2 233. LDP CARRID _____ 242. MAX TGN 2000
223. DFLT OPT CALLFWD 234. LDP OFFICE ID _____ 243. MAX RTIDX 3617
224. USG SENS CONF NO 235. NST ALL N
225. SUPV ANNC Y 236. ACCT PROMPT BEEP2
226. DFLT ANNC Y 237. CARRIER TONE N
227. HOLD ANNC BEGOFANNC 238. NSC WC ID _____

228. FLASH TIMER	1.5	239. ORIG NSC	___
229. DFLT TIMER	15	240. TERM NSC	___
230. HOLD TIMER	60	241. TEST CALL TNSC	___
231. PRODUCT	5ESS		
POFFLOSS	N		

ofcopt	5ESS Switch		
SCREEN 14 OF 17	OFFICE DATA ADMINISTRATION		
(5509)	OFFICE OPTIONS		
LOCAL NUMBER PORTABILITY	ISUP CKT QRY OPTIONS	RTCD OPTIONS	
244. JIP	251. CQM RSND 10	BILL SM	
245. DFLT FLAT RATE NONE	252. CQM START TIME 3	256. RTCD OFC N	
246. DFR STRCT CODE 500		257. RTCD ALM Y	
	NPA-NXX GROWTH	258. SCP TREC AMAONLY	
REORDER THRESHOLDS	253. ASI SID 10 N		
247. RCR MINOR 0	254. ROP DISP DN 10 N	EEC OPTIONS	
248. RCR MAJOR 0		259. EEC ACT SIG	
249. RCR CRITICAL 0			
LDCW TREATMENT			
250. LDCW TRMT N			

ofcopt	5ESS Switch		
SCREEN 15 OF 17	OFFICE DATA ADMINISTRATION		
(5509)	OFFICE OPTIONS		
PSU TRUNKS	TALKING CALL WAITING		
260. PP IDLE 4	266. ANS TIMER 2.0		
261. PER RATE 5	267. DISC TIMER 3.0		
262. PER THRESH 15	268. DN1	_____	
263. PRIM VOC ALG EVRC	269. DN2	_____	
	270. TCW DAS	___	
FRBC LEV 3 PER	271. TCW SCR	_____	
264. MIN THRESH 0500	272. TCW SUPPRESS AMA N		
265. MAX THRESH 0900	273. TCW CARRID	_____	
	SIGI Y		

ofcopt	5ESS Switch		
SCREEN 16 OF 17	OFFICE DATA ADMINISTRATION		
(5509)	OFFICE OPTIONS		
275. VIRTUAL SWITCH N			
276. CALEA SM	___		

```

CALL SCREENING
277. T SCREEN      20
278. CS MONITOR   60
      DRM
279. ALARM OUTPUT OPT N
280. ALARM INPUT OPT N
281. ALARM DURATION

```

```

ofcopt                                5ESS Switch
SCREEN 17 OF 17                       OFFICE DATA ADMINISTRATION
(5509)                                OFFICE OPTIONS

```

CRITICAL INDICATORS		CRITICAL INDICATORS	
282.	CRIT EXPANDED INBAND SGNLING N	293.	CRIT SCP 800 DAS N
284.	CRIT NM DEFAULT NPA N	294.	CRIT FGD PHASE N
285.	CRIT HOME NPA N	295.	CRIT TCAP CIC N
286.	CRIT EXTRA START WINK N	296.	CRIT USTWC FEAT N
287.	CRIT CPE OPTION N	297.	CRIT USTWC ACT N
288.	CRIT OFFICE TYPE N	298.	CRIT SPONT AVAIL N
289.	CRIT E911 OPTION N	299.	CRIT CICP BLOCK N
290.	CRIT E911 DAS N		
291.	CRIT E911 SCR N		
292.	CRIT IHN SCP NPA DEL N		

Figure 2 SAMPLE OFCOPT FORM 5E14 SOFTWARE RELEASE

```

ofc opt          5ESS Switch
SCREEN 1 OF 19   OFFICE DATA ADMINISTRATION
(5509)           OFFICE OPTIONS

*1. KEY          0          13. EOP LINES _____
2. OFFICE ID     _____ 14. EOP TRUNKS _____
3. COMPANY ID    _____ 15. EOP SCR _____
4. TIME ZONE     -6        16. EOP CDI _____
5. DAYLIGHT SAVINGS TIME _
6. COIN RETURN POTENTIAL _____
7. EXPANDED INBAND SGNLING _
8. STUCK COIN REPORT _____
9. LTP SCR       _____
10. LTP DAS      _____
11. AM ODD MEMORY SIZE 16384
12. ODD DISK SIZE  8992

                                NDC NTMOS/RCVERBOSE OPTS
                                >21. TRFM LINK      _
                                RCVERBOSE          _
                                23. RNM LINK         N
                                24. TRFM RNM OPT     NONE
                                25. LOC IDENT CODE   _____

```

ofcopt 5ESS Switch
SCREEN 2 OF 19 OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

>26. ACTIVATE DIV OF REV	—	BATCH RC/V	
27. DIV OF REV HOURLY RPTS	—	>37. BATCH RC/V INTERVAL	01
28. DIV OF REV COUNT TYPES	_____	38. BATCH RC/V RELEASE TIME	00
29. 5 MIN PERM SIG THRESHOLD	_____	39. BATCH RC/V CLEANUP AGE	14
30. VAR TIME PERM SIG THRESHOLD	_____	40. BATCH RC/V CLEANUP TIME	00:00
31. VAR TIME PERM SIG INTERVAL	_____	41. BATCH RC/V INHIBIT	Y
32. ALLOW TOUCH TONE FRAUD	N	42. BATCH CLEANUP INHIBIT	Y
33. PRINT TOUCH TONE FRAUD	N		
34. DSN OPTION	N	TRUNK ERROR ANALYSIS	
35. CPE OPTION	N	>43. ROUTE TO TERA?	Y
36. SES	_____	44. ERROR THRESHOLD	03
		>45. MFR REVERTIVE MANUAL?	N

ofcopt

5ESS Switch

SCREEN 3 OF 19

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

46. LOCAL TRAF MEAS CHANNEL SUMMARY		56. CODE 4	_____
47. IMLT-2?	—		
48. APPLICATION PROCESSOR	NO	>57. NM DEFAULT NPA	_____
49. CARRIER ID	_____	58. NM RR INH DIG PFX/DEL	N
50. TOLL CARRIER	_____	59. NM SILC LEVEL 1	0.0
51. ICLATA SCD IND	N	60. NM SILC LEVEL 2	0.0
52. RINGING TIMEOUT	_____	>61. COMMON CHAN SIG	NO
		62. DIRECT LINK NODE	—
CAMA TRUNK TROUBLE CODE		63. ORIG SCREEN OFF	—
>53. CODE 1	_____	64. HOME NPA	_____
54. CODE 2	_____	65. ACT PT SDN	N
55. CODE 3	_____	66. SERV SWITCH PT?	N

ofcopt

5ESS Switch

SCREEN 4 OF 19

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

67. LATA NUMBER	_____	75. AMADNS ACTIVE	N
>68. EXTRA START WINK N		76. MIN AMA ALRM	70
OPC	_____	77. MAJ AMA ALRM	90
		78. CRIT AMA ALRM	100
EQUAL ACCESS		79. ISDAMAOPT	Y
>70. TIME	300000	80. ISVAMAOPT	N
71. OVERLOAD TIME	15000	81. SHORT SUPERVISORY TRANSITIONS	N
72. OFFICE TYPE	N	82. LOCAL ANSWERED CALLS?	Y
73. OFFICE CARRIER LEC		83. LOCAL ABANDONS?	N
		84. TOLL ABANDONS?	Y

AMA RECORDING OPTIONS	85. SPECIAL ABANDONS?	N
>74. AMA METHOD AMATPS	86. ALL ABANDONS?	N

```

ofcopt                               5ESS Switch
SCREEN 5 OF 19                       OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

87. SSU ON LOCAL CALLS?              N          99. OPER                      N
88. SSU ON TOLL CALLS?               N          100. ORIG UNBUNDLED N
89. LOCAL COIN                       N          101. ORIG RESOLD    N
90. SSU ON ALL CALLS?                N          102. TERM UNBUNDLED N
91. TERMINATING INTERLATA?           Y          103. TERM RESOLD    N
92. SSU ON INTERLATA?                N          104. UNBLD/RESLD SC 500
93. HR INWATS OVERFLOW RECORD? N
94. DID TIMEOUT                      05
95. CMC WINK CONNECT                 N          >105. ALIT START TIME _____
96. AMA ERROR MIN ALRM               N          106. ALIT DURATION    _
97. LDC GEN TIME                     00:00      107. ALIT RANGE      _
98. TRUNK                            N          108. ALIT TYPE       _____

```

```

ofcopt                               5ESS Switch
SCREEN 6 OF 19                       OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

      APT TESTING                    119. OCTL OPEN DURATION 030    127. FAIL ID _____
>109. APT START TIME _____
110. APT DURATION    _              TWS FOR 101TL                    LEASED NETWORK
111. SUN             _              >120. FIRST  LOCAL                    128. 8 HR SCAN    N
112. MON             _              121. SECOND  _____                129. 8 HR START 01
113. TUE             _              122. THIRD   _____                130. 8 HR FREQ   8
114. WED             _                                           131. TIME OUT    4
115. THR             _              MSU/MMSU ALARMS REPORTS
116. FRI             _              >123. MISCELLANEOUS ALM OPT N
117. SAT             _              124. OVERLAP SIZE                01
                                           125. DN PRIVACY?                N
>118. OCTL TONE DURATION 050    126. ISP DIGITS                    2

```

```

ofcopt                               5ESS Switch
SCREEN 7 OF 19                       OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

132. GLOBL TITLE    000000
133. DAS            _____
134. ACTION POINT N

```

```

ofcopt                      5ESS Switch
SCREEN 8 OF 19              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      PPM PULSE WIDTH      142. FALSE LINK CONG LVL2      DEFAULT BRI TYPE
135. ISLU BATTERY          0                                >#147. BRI TYPE _____
136. ISLU TONE              0      INTERNATIONAL OUTBOUND CALL
137. ISLU THIRD WIRE        0      143. TRAD 2-STAGE PST 010000
                                   144. TRAD 2-STAGE PDT 020000

      SPECIAL ACCESS
138. SP ACCESS N           145. RM RTG RESTRCT Y

      CCS FEATURES          Q931 PROTOCOL OPTIONS
139. EXPANDED SLS          N      146. CAUSE LOC PUB
140. IMPROVED SLT          N
141. MTP NODE RESTART N

```

```

ofcopt                      5ESS Switch
SCREEN 9 OF 19              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      PERFORMANCE MONITORING      ISUP      ON-LINE OFFICE RECORDS
148. DSL PM ENABLE      Y      157. CRA TIMER      25      >168. ENABLED?      N
149. REPORT INT          01      158. EXM D TIMER      0300      169. START HOUR      23
150. CRC SES RATE        3      159. BUSY ANNC      N      170. DURATION         04
151. MAX NO THR GRPS     256      160. LEC ANNC      N      171. SUN              N
152. PM TIME              0      161. LEC IW REL      N      172. MON              Y
153. BPV SES RATE        307      162. BLANK NBR REL N      173. TUE              Y
154. FAC PM ENABLE      Y      163. RCD 3PT1 ITC    SPEECH      174. WED              Y
                                   164. CICP BLOCK      N      175. THR              Y
      MISMATCH DETECTION          165. ISUP APN DAS      ____      176. FRI              Y
155. ENABLE Y            166. IAM CRM PRIOR 1      177. SAT              N
156. REPORT N            167. OFC OLI      00

```

```

ofcopt                      5ESS Switch
SCREEN 10 OF 19             OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      HOME INTERCOM      SLC96 T1 FACILITIES      911
178. MAX RING TIME 180    >#183. OFF NORMAL _      189. TIMING DELAY 0
179. MAX HOLD TIME 180
180. MAX TALK TIME 10      ISVM OPTION      ENHANCED 911
                                   184. ISVM TCAP TIMER 3      190. E911 OPTION    INACTIVE

```

SERIES COMPLETION		191. E911 DAS	___
DEL BCK LNK Y	REMOTE DIGITAL TEST ACCESS	192. E911 SCR	___
	185. RDTA SCR N IDX	193. E911 LN SFG	___
PER CALL TEST FAILURE	186. RDTA DAS	194. E911 TRK SFG	___
PCTF INT 60M	187. BRI MAX SESSION		
	188. RDTA PIC	PRIM E911 APID	_
		SEC E911 APID	_

ofcopt	5ESS Switch	
SCREEN 10 OF 19	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
HOME INTERCOM	SLC96 T1 FACILITIES	911
178. MAX RING TIME 180	>#183. OFF NORMAL	189. TIMING DELAY 0
179. MAX HOLD TIME 180		
180. MAX TALK TIME 10	ISVM OPTION	ENHANCED 911
	184. ISVM TCAP TIMER 3	190. E911 OPTION INACTIVE
SERIES COMPLETION	REMOTE DIGITAL TEST ACCESS	191. E911 DAS
DEL BCK LNK Y	185. RDTA SCR N IDX	192. E911 SCR
	186. RDTA DAS	193. E911 LN SFG
PER CALL TEST FAILURE	187. BRI MAX SESSION	194. E911 TRK SFG
PCTF INT 60M	188. RDTA PIC	PRIM E911 APID
		SEC E911 APID

ofcopt	5ESS Switch	
SCREEN 11 OF 19	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
197. ESA SW TIME 0	ESSENTIAL SVC PROTECT	FEATURE GROUP D
198. E911 CESID BN	202. ESP NORM ALW N	208. FGD PHASE PREPHASE
		209. TCAP CIC N
OUTBOUND SERVICES	SSP 800	
ALT SIG SM	203. INH SCP NPA DEL N	SPEECH ROUTING
	204. SCP 800 DAS	SPEECH TRK GRPS
INDIV DIALING PLAN	MDII	NETWORK RELEASE
200. IDP DESEP	205. MDII INTERVAL 0	211. OLDEST RELEASE
ASI PROXY	206. MDDI THRESHOLD 20	
201. ASI ON N	207. MDDI MAJOR ALARM N	CKT SWITCHED TRUNK
		212. CST DAS

ofcopt	5ESS Switch
SCREEN 12 OF 19	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

USTWC	OIU
213. USTWC FEAT _____	219. OFI SWITCH INT 028
214. USTWC ACT N	
215. USTWC CHRG N	PHA
216. SPONT AVAIL UNAVAIL	220. CONG1 QCAP 50
	221. CONG2 QCAP 80
NETWORK ACCESS INTERRUPT (NAI)	222. ATM LAYER SONET
217. TOLL N	223. REV QLTY THRESH 0
DNUS	CNIS INTRAGROUP DELIVERY
218. FI SWITCH INT 028	224. CNIGI NORSTRCT

ofcopt	5ESS Switch	
SCREEN 13 OF 19	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
CALL WAITING DELUXE	LONG DISTANCE PLATFORM	INCREASED TGN
225. ALERT TYPE CWD2	236. LDP CARRID _____	245. MAX TGN 2000
226. DFLT OPT CALLFWD	237. LDP OFFICE ID _____	246. MAX RTIDX 3617
227. USG SENS CONF NO	238. NST ALL N	
228. SUPV ANNC Y	239. ACCT PROMPT BEEP2	
229. DFLT ANNC Y	240. CARRIER TONE N	
230. HOLD ANNC BEGOFANNC	241. NSC WC ID _____	
231. FLASH TIMER 1.5	242. ORIG NSC _____	
232. DFLT TIMER 15	243. TERM NSC _____	
233. HOLD TIMER 60	244. TEST CALL TNSC _____	
234. PRODUCT 5ESS		
POFFLOSS N		

ofcopt	5ESS Switch	
SCREEN 14 OF 19	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
LOCAL NUMBER PORTABILITY	ISUP QRY OPTIONS	RTCD OPTIONS
247. JIP _____	254. CQM RSND 10	BILL SM _____
248. DFLT FLAT RATE NONE	255. CQ START TIME 3	259. RTCD OFC N
249. DFR STRCT CODE 500		260. RTCD ALM Y
	NPA-NXX GROWTH	261. SCP TREC AMAONLY
REORDER THRESHOLDS	256. ASI SID 10 N	
250. RCR MINOR 0	257. ROP DISP DN 10 N	EEC OPTIONS
251. RCR MAJOR 0		262. EEC ACT SIG
252. RCR CRITICAL 0		
LDCW TREATMENT		
253. LDCW TRMT N		

```

ofcopt                    5ESS Switch
SCREEN 15 OF 19           OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

      PSU TRUNKS                      TALKING CALL WAITING          SIGI Y
263. PP IDLE              4          272. ANS TIMER                2.0
264. PER RATE              5          273. DISC TIMER              3.0
265. PER THRESH            15          274. DN1                      _____
266. PER 3G RATE           5          275. DN2                      _____
267. PER 3G THRESH        15          276. DNB                      _____
268. PRIM VOC ALG         EVRC        277. DNC                      _____
269. SEC VOC ALG          CEV13       278. DNG                      _____
                                     279. TCW DAS                    _____
                                     280. TCW SCR                    _____
                                     281. TCW SUPPRESS AMA N
270. MIN THRESH 0500       282. TCW CARRID                    _____
271. MAX THRESH 0900

```

```

ofcopt                    5ESS Switch
SCREEN 16 OF 19           OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

284. VIRTUAL SWITCH N     USAGE SENSITIVE SIX WAY CALLING    PLATFORM CUTOVER
                                     290. USSWC FEAT _____    CUTOVER MODE NONE
      CALEA                291. USSWC ACT N                    HOST PLAT 1 _____
285. CALEA SM             _____    292. USSWC CHRG N                    HOST PLAT 2 _____
286. ADMIN ACCESS N
287. TD LIMIT             50          CGA OPTIONS                      PAG TIMERS
                                     293. CGA BUNDLE Y                    300. OPS TIMER 15
                                     DRM                                301. TPS TIMER 10
      CALL SCREENING
288. T SCREEN             20          294. ALARM OUTPUT OPT N
289. CS MONITOR           60          295. ALARM INPUT OPT N
                                     296. ALARM DURATION _____

```

```

ofcopt                    5ESS Switch
SCREEN 17 OF 19           OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

      CRITICAL INDICATORS          CRITICAL INDICATORS
303. CRIT EXPANDED INBAND SGNLING N  314. CRIT SCP 800 DAS N
305. CRIT NM DEFAULT NPA              N  315. CRIT FGD PHASE    N
306. CRIT HOME NPA                    N  316. CRIT TCAP CIC     N
307. CRIT EXTRA START WINK            N  317. CRIT USTWC FEAT  N
308. CRIT CPE OPTION                  N  318. CRIT USTWC ACT   N

```

309. CRIT OFFICE TYPE	N	319. CRIT SPONT AVAIL	N
310. CRIT E911 OPTION	N	320. CRIT CICP BLOCK	N
311. CRIT E911 DAS	N		
312. CRIT E911 SCR	N		
313. CRIT IHN SCP NPA DEL	N		

ofcopt	5ESS Switch
SCREEN 18 OF 19	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

USAGE SENSITIVE CALL FORWARDING	324. MSTMCI 30
321. USCF FEAT _____	
322. USCF CFV ALERT N	CIC ALLOCATION
	325. CAMPON TIMER 20
SWITCH-BASED 8XX TRANSLATION INFO	326. KILL CALLS Y
323. SVC FEAT CODE 000	327. GROWTH VIA RCV N

	ON-HOOK DATA TRANSMISSION
	332. OFC FSK OSI N

ofcopt	5ESS Switch	—
SCREEN 19 OF 19	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	

BICC TIMERS/RANGES	BICC TIMERS/RANGES
BICC ADDR COMP 25	MAX RNG BGB BGU 127
BICC COT 12	MAX RNG BGRS 127
BICC CQ START TIME 4	UNI SETUP IND 15
BICC GBLO RSND 10	UNI CONN CFM 15
BICC GRS RSND 10	UNI CONN IND 10
BICC GUBL RSND 10	UNI REL CFM 5
BICC CQM RSND 10	UNI REL IND 5
BICC RLC SHORT 10	UNI IWG REL 2
BICC RLC LONG 60	513. GSM ESCALATION N
BICC RS RSND 10	
BICC SUS 15	

Figure 3 SAMPLE OFCOPT FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

ofcopt	5ESS Switch
SCREEN 1 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

*1. KEY	0	13. AM ODD MEMORY SIZE 16384

2. OFFICE ID	_____	14. ODD DISK SIZE	8992
3. COMPANY ID	_____	15. EOP LINES	_____
4. TIME ZONE	-6	16. EOP TRUNKS	_____
5. DAYLIGHT SAVINGS TIME	—	17. EOP SCR	_____
6. COIN RETURN POTENTIAL	_____	18. EOP CDI	_____
7. EXPANDED INBAND SGNLING	—		
8. STUCK COIN REPORT	—	NDC NTMOS/RCVERBOSE OPTS	
9. LTP SCR	_____	>23. TRFM LINK	—
10. LTP DAS	_____	RCVERBOSE	—
11. LTP RAX	_____	25. RNM LINK	N
12. LTP CODE RESTRICT	_____	26. TRFM RNM OPT	NONE

```

ofcopt                      5ESS Switch
SCREEN 2 OF 24              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

```

27. LOC IDENT CODE	_____	38. SES	_____
>28. ACTIVATE DIV OF REV	—	BATCH RC/V	
29. DIV OF REV HOURLY RPTS	—	>39. BATCH RC/V INTERVAL	01
30. DIV OF REV COUNT TYPES	_____	40. BATCH RC/V RELEASE TIME	00
31. 5 MIN PERM SIG THRESHOLD	_____	41. BATCH RC/V CLEANUP AGE	14
32. VAR TIME PERM SIG THRESHOLD	_____	42. BATCH RC/V CLEANUP TIME	00:00
33. VAR TIME PERM SIG INTERVAL	—	43. BATCH RC/V INHIBIT	Y
34. ALLOW TOUCH TONE FRAUD	N	44. BATCH CLEANUP INHIBIT	Y
35. PRINT TOUCH TONE FRAUD	N		
36. DSN OPTION	N	TRUNK ERROR ANALYSIS	
37. CPE OPTION	N	>45. ROUTE TO TERA? Y	

```

ofcopt                      5ESS Switch
SCREEN 3 OF 24              OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

```

46. ERROR THRESHOLD	03	CAMA TRUNK TROUBLE CODE	
>47. MFR REVERTIVE MANUAL?	N	>57. CODE 1	_____
48. LOCAL TRAF MEAS CHANNEL	BOTH	58. CODE 2	_____
49. IMLT-2?	—	59. CODE 3	_____
50. IMLT RETRY	N	60. CODE 4	_____
51. IMLT RDELAY	25		
52. APPLICATION PROCESSOR	NO	>61. NM DEFAULT NPA	_____
53. CARRIER ID	_____	62. NM RR INH DIG PFX/DEL	N
54. TOLL CARRIER	_____	63. NM SILC LEVEL 1	0.0
55. ICLATA SCD IND	N	64. NM SILC LEVEL 2	0.0
56. RINGING TIMEOUT	_____	>65. COMMON CHAN SIG	NO
		66. DIRECT LINK NODE	—

```

ofcopt                               5ESS Switch
SCREEN 4 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                              OFFICE OPTIONS

67. ORIG SCREEN OFF  _              77. OFFICE CARRIER LEC
68. HOME NPA          _____
69. ACT PT SDN        N
70. SERV SWITCH PT?  N              >78. AMA METHOD                      AMATPS
71. LATA NUMBER      _____    79. AMADNS ACTIVE                      N
>72. EXTRA START WINK N            80. MIN AMA ALRM                      70
    OPC                  _____  81. MAJ AMA ALRM                      90
                                   82. CRIT AMA ALRM                     100
                                   83. ISDAMAOPT                       Y
                                   84. ISVAMAOPT                       N
    EQUAL ACCESS                  85. SHORT SUPERVISORY TRANSITIONS N
>74. TIME              300000       86. LOCAL ANSWERED CALLS?      Y
75. OVERLOAD TIME 15000
76. OFFICE TYPE    N

```

```

ofcopt                               5ESS Switch
SCREEN 5 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                              OFFICE OPTIONS

87. LOCAL ABANDONS?      N          99. CMC WINK CONNECT      N
88. TOLL ABANDONS?      Y          100. AMA ERROR MIN ALRM N
89. SPECIAL ABANDONS?   N          101. LDC GEN TIME        00:00
90. ALL ABANDONS?       N          102. TRUNK                N
91. SSU ON LOCAL CALLS? N          103. OPER                 N
92. SSU ON TOLL CALLS?  N          104. ORIG UNBUNDLED      N
93. LOCAL COIN          N          105. ORIG RESOLD         N
94. SSU ON ALL CALLS?   N          106. TERM UNBUNDLED      N
95. TERMINATING INTERLATA? Y       107. TERM RESOLD         N
96. SSU ON INTERLATA?   N          108. UNBLD/RESLD SC      500
97. HR INWATS OVERFLOW RECORD? N
98. DID TIMEOUT          05

```

```

ofcopt                               5ESS Switch
SCREEN 6 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                              OFFICE OPTIONS

    TESTING OPTIONS                  118. APT DURATION  _
>109. ALIT START TIME _____    119. SUN              _
    110. ALIT DURATION  _          120. MON              _
    111. ALIT RANGE     _          121. TUE              _
    112. ALIT TYPE      _____ 122. WED              _
    113. IMT INHIBIT    N          123. THR              _
    114. IMT RESIST     MED        124. FRI              _

                                   TWS FOR 101TL
                                   >128. FIRST   LOCAL
                                   129. SECOND   _____
                                   130. THIRD    _____

```

125. SAT _

APT TESTING

115. ALGORITHM SEQN >126. OCTL TONE DURATION 050

116. PROCS NBR 2 127. OCTL OPEN DURATION 030

>117. APT START TIME _____

ofcopt 5ESS Switch

SCREEN 7 OF 24 OFFICE DATA ADMINISTRATION

(5509) OFFICE OPTIONS

MSU/MMSU ALARMS REPORTS 140. GLBL TITLE 000000

>131. MISCELLANEOUS ALM OPT N 141. DAS _____

132. OVERLAP SIZE 01 142. ACTION POINT N

133. DN PRIVACY? N

134. ISP DIGITS 2

135. FAIL ID _____

LEASED NETWORK

136. 8 HR SCAN N

137. 8 HR START 01

138. 8 HR FREQ 8

139. TIME OUT 4

ofcopt 5ESS Switch

SCREEN 8 OF 24 OFFICE DATA ADMINISTRATION

(5509) OFFICE OPTIONS

PPM PULSE WIDTH 150. FALSE LINK CONG LVL2 DEFAULT BRI TYPE

143. ISLU BATTERY 0 >#155. BRI TYPE _____

144. ISLU TONE 0 INTERNATIONAL OUTBOUND CALL

145. ISLU THIRD WIRE 0 151. TRAD 2-STAGE PST 010000

152. TRAD 2-STAGE PDT 020000

SPECIAL ACCESS

146. SP ACCESS N 153. RM RTG RESTRCT Y

CCS FEATURES Q931 PROTOCOL OPTIONS

147. EXPANDED SLS N 154. CAUSE LOC PUB

148. IMPROVED SLT N

149. MTP NODE RESTART N

ofcopt 5ESS Switch

SCREEN 9 OF 24 OFFICE DATA ADMINISTRATION

(5509) OFFICE OPTIONS

PERFORMANCE MONITORING	ISUP	ON-LINE OFFICE RECORDS
156. DSL PM ENABLE Y	165. CRA TIMER 25	>176. ENABLED? N
157. REPORT INT 01	166. EXM D TIMER 0300	177. START HOUR 23
158. CRC SES RATE 3	167. BUSY ANNC N	178. DURATION 04
159. MAX NO THR GRPS 256	168. LEC ANNC N	179. SUN N
160. PM TIME 0	169. LEC IW REL N	180. MON Y
161. BPV SES RATE 307	170. BLANK NBR REL N	181. TUE Y
162. FAC PM ENABLE Y	171. RCD 3PT1 ITC SPEECH	182. WED Y
	172. CICP BLOCK N	183. THR Y
MISMATCH DETECTION	173. ISUP APN DAS ____	184. FRI Y
163. ENABLE Y	174. IAM CRM PRIOR 1	185. SAT N
164. REPORT N	175. OFC OLI 00	

ofcopt	5ESS Switch	
SCREEN 10 OF 24	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
HOME INTERCOM	SLC96 T1 FACILITIES	198. RDTA PIC ____
186. MAX RING TIME 180	>#191. OFF NORMAL _	
187. MAX HOLD TIME 180		911
188. MAX TALK TIME 10	ISVM OPTION	199. TIMING DELAY 0
	192. ISVM TCAP TIMER 3	
SERIES COMPLETION	REMOTE DIGITAL TEST ACCESS	
DEL BCK LNK Y	193. RDTA SCR N IDX ____	
PER CALL TEST FAILURE	194. RDTA DAS ____	
PCTF INT 60M	195. RDTA RAX ____	
	196. RDTA CODE RESTRICT ____	
	197. BRI MAX SESSION ____	

ofcopt	5ESS Switch	
SCREEN 11 OF 24	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
ENHANCED 911		
200. E911 OPTION	INACTIVE	
201. E911 DAS	____	
202. E911 SCR	____	
203. E911 LN SFG	____	
204. E911 TRK SFG	____	
PRIM E911 APID	_	
SEC E911 APID	_	
207. ESA SW TIME	0	
208. E911 CESID	BN	
209. E911 RAX	____	
210. E911 CODE RESTRICT	____	

```
ofcopt                      5ESS Switch
SCREEN 12 OF 24              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

      OUTBOUND SERVICES          SSP 800          SPEECH ROUTING
      ALT SIG SM ____          215. INH SCP NPA DEL N          SPEECH TRK GRPS ____
                                216. SCP 800 DAS ____

INDIV DIALING PLAN
212. IDP DESEP ____

      ASI PROXY
213. ASI ON N

      ESSENTIAL SVC PROTECT          FEATURE GROUP D
214. ESP NORM ALW N          220. FGD PHASE PREPHASE          USTWC
                                221. TCAP CIC N          225. USTWC FEAT ____
                                226. USTWC ACT N          224. CST DAS ____

                                MDII
                                217. MDII INTERVAL 0
                                218. MDDI THRESHOLD 20
                                219. MDDI MAJOR ALARM N
                                223. OLDEST RELEASE ____
                                224. CST DAS ____
```

```
ofcopt                      5ESS Switch
SCREEN 13 OF 24              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

227. USTWC CHRGR N          OIU TDM CHBLK LMT 0000
228. SPONT AVAIL UNAVAIL          OIU IP CHBLK CNT 0000
                                OIU IP CHBLK LMT 0000
NETWORK ACCESS INTERRUPT (NAI)          MAXIMUM 0
229. TOLL N

                                PHA
                                237. CONG1 QCAP 50
                                238. CONG2 QCAP 80
                                239. ATM LAYER SONET

      DNUS
230. FI SWITCH INT 028

      OIU
231. OFI SWITCH INT 028          240. REV QLTY THRESH 0
      OIU TDM CHBLK CNT 0000
```

```
ofcopt                      5ESS Switch
SCREEN 14 OF 24              OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

CNIS INTRAGROUP DELIVERY
241. CNIGI NORSTRCT

COMMUNICATION MODULE
242. TMS HUNT 0
```

```

ofcopt                      5ESS Switch
SCREEN 15 OF 24             OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      CALL WAITING DELUXE      LONG DISTANCE PLATFORM      INCREASED TGN
243. ALERT TYPE      CWD2      254. LDP CARRID      _____      263. MAX TGN      2000
244. DFLT OPT      CALLFWD      255. LDP OFFICE ID      _____      264. MAX RTIDX      3617
245. USG SENS CONF      NO      256. NST ALL      N
246. SUPV ANNC      Y      257. ACCT PROMPT      BEEP2
247. DFLT ANNC      Y      258. CARRIER TONE      N
248. HOLD ANNC      BEGOFANNC      259. NSC WC ID      _____
249. FLASH TIMER      1.5      260. ORIG NSC      _____
250. DFLT TIMER      15      261. TERM NSC      _____
251. HOLD TIMER      60      262. TEST CALL TNSC      _____
252. PRODUCT      5ESS
      POFFLOSS      N

```

```

ofcopt                      5ESS Switch
SCREEN 16 OF 24             OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      LOCAL NUMBER PORTABILITY      ISUP QRY OPTIONS      RTCD OPTIONS
265. JIP      _____      272. CQM RSND      10      BILL SM      _____
266. DFLT FLAT RATE      NONE      273. CQ START TIME      3      277. RTCD OFC      N
267. DFR STRCT CODE      500      NPA-NXX GROWTH      278. RTCD ALM      Y
      REORDER THRESHOLDS      274. ASI SID      10      N      279. SCP TREC      AMAONLY
268. RCR MINOR      0      275. ROP DISP DN      10      N      EEC OPTIONS
269. RCR MAJOR      0      280. EEC ACT      SIG
270. RCR CRITICAL      0

      LDCW TREATMENT
271. LDCW TRMT      N

```

```

ofcopt                      5ESS Switch
SCREEN 17 OF 24             OFFICE DATA ADMINISTRATION
(5509)                     OFFICE OPTIONS

      PSU TRUNKS      TALKING CALL WAITING
281. PP IDLE      4      290. ANS TIMER      2.0
282. PER RATE      5      291. DISC TIMER      3.0
283. PER THRESH      15      292. DN1      _____
284. PER 3G RATE      5      293. DN2      _____

```

285. PER 3G THRESH 15	294. DNB	_____
286. PRIM VOC ALG EVRC	295. DNC	_____
287. SEC VOC ALG CEV13	296. DNG	_____
	297. TCW DAS	_____
FRBC LEV 3 PER	298. TCW SCR	_____
288. MIN THRESH 0500	299. TCW SUPPRESS AMA N	
289. MAX THRESH 0900	300. TCW CARRID	_____

ofcopt	5ESS Switch
SCREEN 18 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS
301. TCW RAX	CALL SCREENING
302. TCW CODE RESTRICT	308. T SCREEN 20
	309. CS MONITOR 60
SIGI Y	
	USAGE SENSITIVE SIX WAY CALLING
304. VIRTUAL SWITCH N	310. USSWC FEAT
	311. USSWC ACT N
CALEA	312. USSWC CHRG N
305. CALEA SM	
306. ADMIN ACCESS N	CGA OPTIONS
307. TD LIMIT 50	313. CGA BUNDLE Y
	314. INH VACANT FAC N

ofcopt	5ESS Switch
SCREEN 19 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS
315. VACANT FAC REPT TIME 2	HOST PLAT 2
NPRS PACKET GROUP	
316. NPRS TRUNK GROUP	PAG TIMERS
	323. OPS TIMER 15
DRM	324. TPS TIMER 10
317. ALARM OUTPUT OPT N	
318. ALARM INPUT OPT N	SS7 CONNECTION HOLD TIMERS
319. ALARM DURATION	325. END OFFICE 120
PLATFORM CUTOVER	
CUTOVER MODE NONE	
HOST PLAT 1	

ofcopt	5ESS Switch

SCREEN 20 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

CRITICAL INDICATORS		CRITICAL INDICATORS	
326. CRIT EXPANDED INBAND SGNLING	N	337. CRIT SCP 800 DAS	N
328. CRIT NM DEFAULT NPA	N	338. CRIT FGD PHASE	N
329. CRIT HOME NPA	N	339. CRIT TCAP CIC	N
330. CRIT EXTRA START WINK	N	340. CRIT USTWC FEAT	N
331. CRIT CPE OPTION	N	341. CRIT USTWC ACT	N
332. CRIT OFFICE TYPE	N	342. CRIT SPONT AVAIL	N
333. CRIT E911 OPTION	N	343. CRIT CICP BLOCK	N
334. CRIT E911 DAS	N		
335. CRIT E911 SCR	N		
336. CRIT IHN SCP NPA DEL	N		

ofcopt

5ESS Switch

SCREEN 21 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

USAGE SENSITIVE CALL FORWARDING	347. MSTMCI	30
344. USCF FEAT _____		
345. USCF CFV ALERT N	SESSION INITIATION PROTOCOL	
	348. COUNTRY CODE	000
SWITCH-BASED 8XX TRANSLATION INFO	349. NATIONAL CIRCUIT CODE	___
346. SVC FEAT CODE 000		
	CIC ALLOCATION	
	350. CAMPON TIMER	20
	351. KILL CALLS	Y
	352. GROWTH VIA RCV	N
	353. PRINT ASSERT NAME	N

ofcopt

5ESS Switch

SCREEN 22 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

ON-HOOK DATA TRANSMISSION
358. OFC FSK OSI N

ofcopt

5ESS Switch

SCREEN 23 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

BICC TIMERS/RANGES		BICC TIMERS/RANGES	380. INTG IDENTIFIER 0
BICC ADDR COMP	25	MAX RNG BGB BGU	127
BICC COT	12	MAX RNG BGRS	127
BICC CQ START TIME	4	UNI SETUP IND	15
BICC GBLO RSND	10	UNI CONN CFM	15
BICC GRS RSND	10	UNI CONN IND	10
BICC GUBL RSND	10	UNI REL CFM	5
BICC CQM RSND	10	UNI REL IND	5
BICC RLC SHORT	10	UNI IWG REL	2
BICC RLC LONG	60		
BICC RS RSND	10	378. OPS APM TIMER	10
BICC SUS	15	379. TPS APM TIMER	10

```

ofcopt                               5ESS Switch                _
SCREEN 24 OF 24                      OFFICE DATA ADMINISTRATION
(5509)                              OFFICE OPTIONS

      GSM MAP                                MH REHOMING ENA N
381. MAP ENABLED                      N      TSI CNT                0
382. MAP Q RESP TIME 20                TSI LIMIT                0
383. GTS ADDRESS                      _____
384. GTS PSEUDO CLI                    _____
385. EARLY ACM TIMER 18

      GDX
386. SHARED COMPENSATOR MODE N
387. INHIBIT MTIBS USE                  N
543. DF2 FOR ISDN D_CHANNEL N

```

Figure 4 SAMPLE OFCOPT FORM 5E16(2) SOFTWARE RELEASES

```

ofcopt                               5ESS Switch
SCREEN 1 OF 20                      OFFICE DATA ADMINISTRATION
(5509)                              OFFICE OPTIONS

*1. KEY                                0      13. EOP LINES          _____
2. OFFICE ID                          _____ 14. EOP TRUNKS          _____
3. COMPANY ID                         _____ 15. EOP SCR            _____
4. TIME ZONE                          -6     16. EOP CDI            _____
5. DAYLIGHT SAVINGS TIME              _
6. COIN RETURN POTENTIAL              _____ NDC NTMOS/RCVERBOSE OPTS
7. EXPANDED INBAND SGNLING            _    >21. TRFM LINK        _
8. STUCK COIN REPORT                  _      RCVERBOSE          _
9. LTP SCR                            _____ 23. RNM LINK          N
10. LTP DAS                           _____ 24. TRFM RNM OPT     NONE

```

11. AM ODD MEMORY SIZE 16384 25. LOC IDENT CODE _____
 12. ODD DISK SIZE 8992

```

ofcopt                                5ESS Switch
SCREEN 2 OF 20                        OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

>26. ACTIVATE DIV OF REV             _
27. DIV OF REV HOURLY RPTS           _
28. DIV OF REV COUNT TYPES           _____
29. 5 MIN PERM SIG THRESHOLD         _____
30. VAR TIME PERM SIG THRESHOLD      _____
31. VAR TIME PERM SIG INTERVAL       _
32. ALLOW TOUCH TONE FRAUD           N
33. PRINT TOUCH TONE FRAUD           N
34. DSN OPTION                       N
35. CPE OPTION                       N
36. SES                             _____

                                     BATCH RC/V
>37. BATCH RC/V INTERVAL             01
38. BATCH RC/V RELEASE TIME         00
39. BATCH RC/V CLEANUP AGE          14
40. BATCH RC/V CLEANUP TIME         00:00
41. BATCH RC/V INHIBIT               Y
42. BATCH CLEANUP INHIBIT            Y

                                     TRUNK ERROR ANALYSIS
>43. ROUTE TO TERA?                  Y
44. ERROR THRESHOLD                  03
>45. MFR REVERTIVE MANUAL?          N
  
```

```

ofcopt                                5ESS Switch
SCREEN 3 OF 20                        OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

46. LOCAL TRAF MEAS CHANNEL BOTH     56. CODE 2 _____
47. IMLT-2?                          _ 57. CODE 3 _____
48. IMLT RETRY                       N 58. CODE 4 _____
49. IMLT RDELAY                      25
50. APPLICATION PROCESSOR            NO
51. CARRIER ID                     _____
52. TOLL CARRIER                    _____
53. ICLATA SCD IND                   N
54. RINGING TIMEOUT                  _____

>59. NM DEFAULT NPA                  ____
60. NM RR INH DIG PFX/DEL           N
61. NM SILC LEVEL 1                  0.0
62. NM SILC LEVEL 2                  0.0
>63. COMMON CHAN SIG                 NO
64. DIRECT LINK NODE                  _
CAMA TRUNK TROUBLE CODE              65. ORIG SCREEN OFF          _
>55. CODE 1 _____                66. HOME NPA                  ____
  
```

```

ofcopt                                5ESS Switch
SCREEN 4 OF 20                        OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

67. ACT PT SDN                       N
68. SERV SWITCH PT?                  N
69. LATA NUMBER                      _

                                     AMA RECORDING OPTIONS
>76. AMA METHOD                        AMATPS
77. AMADNS ACTIVE                     N
  
```

>70. EXTRA START WINK N	78. MIN AMA ALRM	70
OPC _____	79. MAJ AMA ALRM	90
	80. CRIT AMA ALRM	100
EQUAL ACCESS	81. ISDAMAOPT	Y
>72. TIME 300000	82. ISVAMAOPT	N
73. OVERLOAD TIME 15000	83. SHORT SUPERVISORY TRANSITIONS	N
74. OFFICE TYPE N	84. LOCAL ANSWERED CALLS?	Y
75. OFFICE CARRIER LEC	85. LOCAL ABANDONS?	N
	86. TOLL ABANDONS?	Y

ofcopt	5ESS Switch	
SCREEN 5 OF 20	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
87. SPECIAL ABANDONS?	N	99. LDC GEN TIME 00:00 109. ALIT RANGE _
88. ALL ABANDONS?	N	100. TRUNK N
89. SSU ON LOCAL CALLS?	N	101. OPER N
90. SSU ON TOLL CALLS?	N	102. ORIG UNBUNDLED N
91. LOCAL COIN	N	103. ORIG RESOLD N
92. SSU ON ALL CALLS?	N	104. TERM UNBUNDLED N
93. TERMINATING INTERLATA?	Y	105. TERM RESOLD N
94. SSU ON INTERLATA?	N	106. UNBLD/RESLD SC 500
95. HR INWATS OVERFLOW RECORD?	N	
96. DID TIMEOUT	05	TESTING OPTIONS
97. CMC WINK CONNECT	N	>107. ALIT START TIME _____
98. AMA ERROR MIN ALRM	N	108. ALIT DURATION _

ofcopt	5ESS Switch	
SCREEN 6 OF 20	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	
110. ALIT TYPE _____	120. FRI _	
	121. SAT _	
APT TESTING		
111. ALGORITHM SEQN	>122. OCTL TONE DURATION 050	
112. PROCS NBR 2	123. OCTL OPEN DURATION 030	
>113. APT START TIME _____		
114. APT DURATION _	TWS FOR 101TL	
115. SUN _	>124. FIRST LOCAL	
116. MON _	125. SECOND _____	
117. TUE _	126. THIRD _____	
118. WED _		
119. THR _		

ofcopt	5ESS Switch

SCREEN 7 OF 20
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

MSU/MMSU ALARMS REPORTS	136. GLBL TITLE	000000
>127. MISCELLANEOUS ALM OPT N	137. DAS	_____
128. OVERLAP SIZE 01	138. ACTION POINT N	
129. DN PRIVACY? N		
130. ISP DIGITS 2		
131. FAIL ID _____		

LEASED NETWORK

132. 8 HR SCAN N
133. 8 HR START 01
134. 8 HR FREQ 8
135. TIME OUT 4

ofcopt

5ESS Switch

SCREEN 8 OF 20
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

PPM PULSE WIDTH	146. FALSE LINK CONG LVL2	DEFAULT BRI TYPE
139. ISLU BATTERY 0		>#151. BRI TYPE _____
140. ISLU TONE 0	INTERNATIONAL OUTBOUND CALL	
141. ISLU THIRD WIRE 0	147. TRAD 2-STAGE PST 010000	
	148. TRAD 2-STAGE PDT 020000	
SPECIAL ACCESS		
142. SP ACCESS N	149. RM RTG RESTRCT Y	
CCS FEATURES	Q931 PROTOCOL OPTIONS	
143. EXPANDED SLS N	150. CAUSE LOC PUB	
144. IMPROVED SLT N		
145. MTP NODE RESTART N		

ofcopt

5ESS Switch

SCREEN 9 OF 20
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

PERFORMANCE MONITORING	ISUP	ON-LINE OFFICE RECORDS
152. DSL PM ENABLE Y	161. CRA TIMER 25	>172. ENABLED? N
153. REPORT INT 01	162. EXM D TIMER 0300	173. START HOUR 23
154. CRC SES RATE 3	163. BUSY ANNC N	174. DURATION 04
155. MAX NO THR GRPS 256	164. LEC ANNC N	175. SUN N
156. PM TIME 0	165. LEC IW REL N	176. MON Y
157. BPV SES RATE 307	166. BLANK NBR REL N	177. TUE Y
158. FAC PM ENABLE Y	167. RCD 3PT1 ITC SPEECH	178. WED Y
	168. CICP BLOCK N	179. THR Y
MISMATCH DETECTION	169. ISUP APN DAS _____	180. FRI Y
159. ENABLE Y	170. IAM CRM PRIOR 1	181. SAT N

160. REPORT N 171. OFC OLI 00

```

ofcopt                      5ESS Switch
SCREEN 10 OF 20             OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

      HOME INTERCOM        SLC96 T1 FACILITIES                911
182. MAX RING TIME 180    >#187. OFF NORMAL _          193. TIMING DELAY 0
183. MAX HOLD TIME 180
184. MAX TALK TIME 10

      ISVM OPTION                                ENHANCED 911
      188. ISVM TCAP TIMER 3          194. E911 OPTION INACTIVE
      195. E911 DAS _
      REMOTE DIGITAL TEST ACCESS 196. E911 SCR _
      189. RDTA SCR N IDX _          197. E911 LN SFG _
      190. RDTA DAS _          198. E911 TRK SFG _
      191. BRI MAX SESSION _
      192. RDTA PIC _          PRIM E911 APID _
                                SEC E911 APID _

SERIES COMPLETION
  DEL BCK LNK Y
PER CALL TEST FAILURE
  PCTF INT 60M

```

```

ofcopt                      5ESS Switch
SCREEN 11 OF 20             OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

201. ESA SW TIME 0        ESSENTIAL SVC PROTECT          FEATURE GROUP D
202. E911 CESID BN        206. ESP NORM ALW N          212. FGD PHASE PREPHASE
                                213. TCAP CIC N

      OUTBOUND SERVICES        SSP 800
      ALT SIG SM _          207. INH SCP NPA DEL N          SPEECH ROUTING
      208. SCP 800 DAS _          SPEECH TRK GRPS _

INDIV DIALING PLAN
204. IDP DESEP _

      MDII                                NETWORK RELEASE
      209. MDII INTERVAL 0          215. OLDEST RELEASE _
      210. MDDI THRESHOLD 20
      211. MDDI MAJOR ALARM N        CKT SWITCHED TRUNK
                                216. CST DAS _

      ASI PROXY
205. ASI ON N

```

```

ofcopt                      5ESS Switch
SCREEN 12 OF 20             OFFICE DATA ADMINISTRATION
(5509)                      OFFICE OPTIONS

      USTWC                                OIU                CNIS INTRAGROUP DELIVERY
217. USTWC FEAT _          223. OFI SWITCH INT 028 230. CNIGI NORSTRCT
218. USTWC ACT N          OIU PCT CNT 0000
219. USTWC CHRG N        OIU PCT LMT 0000 COMMUNICATION MODULE

```


220. SPONT AVAIL UNAVAIL

231. TMS HUNT 0

PHA

NETWORK ACCESS INTERRUPT (NAI)

221. TOLL N

226. CONG1 QCAP 50

227. CONG2 QCAP 80

228. ATM LAYER SONET

DNUS

222. FI SWITCH INT 028

229. REV QLTY THRESH 0

ofcopt

5ESS Switch

SCREEN 13 OF 20

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

CALL WAITING DELUXE

LONG DISTANCE PLATFORM

INCREASED TGN

232. ALERT TYPE CWD2

243. LDP CARRID _____

252. MAX TGN 2000

233. DFLT OPT CALLFWD

244. LDP OFFICE ID _____

253. MAX RTIDX 3617

234. USG SENS CONF NO

245. NST ALL N

235. SUPV ANNC Y

246. ACCT PROMPT BEEP2

236. DFLT ANNC Y

247. CARRIER TONE N

237. HOLD ANNC BEGOFANNC

248. NSC WC ID _____

238. FLASH TIMER 1.5

249. ORIG NSC _____

239. DFLT TIMER 15

250. TERM NSC _____

240. HOLD TIMER 60

251. TEST CALL TNSC _____

241. PRODUCT 5ESS

POFFLOSS N

ofcopt

5ESS Switch

SCREEN 14 OF 20

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

LOCAL NUMBER PORTABILITY

ISUP QRY OPTIONS

RTCD OPTIONS

254. JIP _____

261. CQM RSND 10

BILL SM _____

255. DFLT FLAT RATE NONE

262. CQ START TIME 3

266. RTCD OFC N

256. DFR STRCT CODE 500

267. RTCD ALM Y

NPA-NXX GROWTH

268. SCP TREC AMAONLY

REORDER THRESHOLDS

263. ASI SID 10 N

257. RCR MINOR 0

264. ROP DISP DN 10 N

EEC OPTIONS

258. RCR MAJOR 0

269. EEC ACT SIG

259. RCR CRITICAL 0

LDCW TREATMENT

260. LDCW TRMT N

ofcopt

5ESS Switch

SCREEN 15 OF 20

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

PSU TRUNKS		TALKING CALL WAITING		SIGI Y
270. PP IDLE	4	279. ANS TIMER	2.0	
271. PER RATE	5	280. DISC TIMER	3.0	
272. PER THRESH	15	281. DN1	_____	
273. PER 3G RATE	5	282. DN2	_____	
274. PER 3G THRESH	15	283. DNB	_____	
275. PRIM VOC ALG	EVRC	284. DNC	_____	
276. SEC VOC ALG	CEV13	285. DNG	_____	
		286. TCW DAS	_____	
FRBC LEV 3 PER		287. TCW SCR	_____	
277. MIN THRESH	0500	288. TCW SUPPRESS AMA	N	
278. MAX THRESH	0900	289. TCW CARRID	_____	

ofcopt		5ESS Switch		
SCREEN 16 OF 20		OFFICE DATA ADMINISTRATION		
(5509)		OFFICE OPTIONS		
291. VIRTUAL SWITCH N	USAGE SENSITIVE SIX WAY CALLING	304. ALARM INPUT OPT	N	
	297. USSWC FEAT _____	305. ALARM DURATION	_____	
CALEA	298. USSWC ACT N			
292. CALEA SM _____	299. USSWC CHRG N	PLATFORM CUTOVER		
293. ADMIN ACCESS N		CUTOVER MODE NONE		
294. TD LIMIT 50	CGA OPTIONS	HOST PLAT 1	_____	
	300. CGA BUNDLE Y	HOST PLAT 2	_____	
CALL SCREENING	301. INH VACANT FAC N			
295. T SCREEN 20	302. VACANT FAC REPT TIME 2	PAG TIMERS		
296. CS MONITOR 60		309. OPS TIMER	15	
	DRM	310. TPS TIMER	10	
	303. ALARM OUTPUT OPT N			

ofcopt		5ESS Switch	
SCREEN 17 OF 20		OFFICE DATA ADMINISTRATION	
(5509)		OFFICE OPTIONS	

SS7 CONNECTION HOLD TIMERS
311. END OFFICE 120

ofcopt		5ESS Switch	
SCREEN 18 OF 20		OFFICE DATA ADMINISTRATION	
(5509)		OFFICE OPTIONS	

CRITICAL INDICATORS		CRITICAL INDICATORS	
312. CRIT EXPANDED INBAND	SGNLING N	323. CRIT SCP 800 DAS	N
314. CRIT NM DEFAULT NPA	N	324. CRIT FGD PHASE	N
315. CRIT HOME NPA	N	325. CRIT TCAP CIC	N

316. CRIT EXTRA START WINK	N	326. CRIT USTWC FEAT	N
317. CRIT CPE OPTION	N	327. CRIT USTWC ACT	N
318. CRIT OFFICE TYPE	N	328. CRIT SPONT AVAIL	N
319. CRIT E911 OPTION	N	329. CRIT CICP BLOCK	N
320. CRIT E911 DAS	N		
321. CRIT E911 SCR	N		
322. CRIT IHN SCP NPA DEL	N		

ofcopt	5ESS Switch
SCREEN 19 OF 20	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

USAGE SENSITIVE CALL FORWARDING	333. MSTMCI 30
330. USCF FEAT _____	
331. USCF CFV ALERT N	CIC ALLOCATION
	334. CAMPON TIMER 20
SWITCH-BASED 8XX TRANSLATION INFO	335. KILL CALLS Y
332. SVC FEAT CODE 000	336. GROWTH VIA RCV N
	337. PRINT ASSERT NAME N
	ON-HOOK DATA TRANSMISSION
	342. OFC FSK OSI N

ofcopt	5ESS Switch	—
SCREEN 20 OF 20	OFFICE DATA ADMINISTRATION	
(5509)	OFFICE OPTIONS	

BICC TIMERS/RANGES	BICC TIMERS/RANGES	362. COMFORT NOISE GEN IDLE
BICC ADDR COMP 25	MAX RNG BGB BGU 127	363. OPS APM TIMER 10
BICC COT 12	MAX RNG BGRS 127	364. TPS APM TIMER 10
BICC CQ START TIME 4	UNI SETUP IND 15	365. INTG IDENTIFIER 0
BICC GBLO RSND 10	UNI CONN CFM 15	
BICC GRS RSND 10	UNI CONN IND 10	565. GSM ESCALATION N
BICC GUBL RSND 10	UNI REL CFM 5	566. SPOP ON
BICC CQM RSND 10	UNI REL IND 5	
BICC RLC SHORT 10	UNI IWG REL 2	
BICC RLC LONG 60		
BICC RS RSND 10		
BICC SUS 15		

Figure 5 SAMPLE OFCOPT FORM 5E17 THROUGH 5E19 SOFTWARE RELEASES

ofcopt	5ESS Switch
SCREEN 1 OF 24	OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

*1. KEY	0	13. AM ODD MEMORY SIZE	16384
2. OFFICE ID	_____	14. ODD DISK SIZE	8992
3. COMPANY ID	_____	15. EOP LINES	_____
4. TIME ZONE	-6	16. EOP TRUNKS	_____
5. DAYLIGHT SAVINGS TIME	_	17. EOP SCR	_____
6. COIN RETURN POTENTIAL	_____	18. EOP CDI	_____
7. EXPANDED INBAND SGNLING	_		
8. STUCK COIN REPORT	_____	NDC NTMOS/RCVERBOSE OPTS	
9. LTP SCR	_____	>23. TRFM LINK	_
10. LTP DAS	_____	RCVERBOSE	_
11. LTP RAX	_____	25. RNM LINK	N
12. LTP CODE RESTRICT	_____	26. TRFM RNM OPT	NONE

ofcopt

5ESS Switch

SCREEN 2 OF 24

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

27. LOC IDENT CODE	_____	38. SES	_____
>28. ACTIVATE DIV OF REV	_	BATCH RC/V	
29. DIV OF REV HOURLY RPTS	_	>39. BATCH RC/V INTERVAL	01
30. DIV OF REV COUNT TYPES	_____	40. BATCH RC/V RELEASE TIME	00
31. 5 MIN PERM SIG THRESHOLD	_____	41. BATCH RC/V CLEANUP AGE	14
32. VAR TIME PERM SIG THRESHOLD	_____	42. BATCH RC/V CLEANUP TIME	00:00
33. VAR TIME PERM SIG INTERVAL	_____	43. BATCH RC/V INHIBIT	Y
34. ALLOW TOUCH TONE FRAUD	N	44. BATCH CLEANUP INHIBIT	Y
35. PRINT TOUCH TONE FRAUD	N		
36. DSN OPTION	N	TRUNK ERROR ANALYSIS	
37. CPE OPTION	N	>45. ROUTE TO TERA? Y	

ofcopt

5ESS Switch

SCREEN 3 OF 24

OFFICE DATA ADMINISTRATION

(5509)

OFFICE OPTIONS

46. ERROR THRESHOLD	03	CAMA TRUNK TROUBLE CODE	
>47. MFR REVERTIVE MANUAL?	N	>57. CODE 1	_____
48. LOCAL TRAF MEAS CHANNEL	BOTH	58. CODE 2	_____
49. IMLT-2?	_	59. CODE 3	_____
50. IMLT RETRY	N	60. CODE 4	_____
51. IMLT RDELAY	25		
52. APPLICATION PROCESSOR	NO	>61. NM DEFAULT NPA	_____
53. CARRIER ID	_____	62. NM RR INH DIG PFX/DEL	N
54. TOLL CARRIER	_____	63. NM SILC LEVEL 1	0.0
55. ICLATA SCD IND	N	64. NM SILC LEVEL 2	0.0
56. RINGING TIMEOUT	_____	>65. COMMON CHAN SIG	NO

66. DIRECT LINK NODE _

```

ofcopt                    5ESS Switch
SCREEN 4 OF 24            OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

67. ORIG SCREEN OFF  _      77. OFFICE CARRIER LEC
68. HOME NPA          ____
69. ACT PT SDN        N
70. SERV SWITCH PT?  N      >78. AMA METHOD                AMATPS
71. LATA NUMBER      ____    79. AMADNS ACTIVE                N
>72. EXTRA START WINK N    80. MIN AMA ALRM                70
    OPC                _____ 81. MAJ AMA ALRM                90
                                82. CRIT AMA ALRM            100
                                83. ISDAMAOPT                Y
                                84. ISVAMAOPT                N
                                85. SHORT SUPERVISORY TRANSITIONS N
                                86. LOCAL ANSWERED CALLS?    Y

    EQUAL ACCESS
>74. TIME              300000
75. OVERLOAD TIME 15000
76. OFFICE TYPE      N

```

```

ofcopt                    5ESS Switch
SCREEN 5 OF 24            OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

87. LOCAL ABANDONS?      N      99. CMC WINK CONNECT    N
88. TOLL ABANDONS?      Y      100. AMA ERROR MIN ALRM N
89. SPECIAL ABANDONS?   N      101. LDC GEN TIME      00:00
90. ALL ABANDONS?       N      102. TRUNK              N
91. SSU ON LOCAL CALLS? N      103. OPER              N
92. SSU ON TOLL CALLS?  N      104. ORIG UNBUNDLED    N
93. LOCAL COIN          N      105. ORIG RESOLD        N
94. SSU ON ALL CALLS?   N      106. TERM UNBUNDLED    N
95. TERMINATING INTERLATA? Y    107. TERM RESOLD        N
96. SSU ON INTERLATA?   N      108. UNBLD/RESLD SC    500
97. HR INWATS OVERFLOW RECORD? N
98. DID TIMEOUT         05

```

```

ofcopt                    5ESS Switch
SCREEN 6 OF 24            OFFICE DATA ADMINISTRATION
(5509)                   OFFICE OPTIONS

    TESTING OPTIONS      118. APT DURATION  _      TWS FOR 101TL
>109. ALIT START TIME  ____  119. SUN              _      >128. FIRST  LOCAL
    110. ALIT DURATION  _    120. MON              _      129. SECOND  ____
    111. ALIT RANGE     _    121. TUE              _      130. THIRD   ____

```

112. ALIT TYPE	_____	122. WED	—
113. IMT INHIBIT	N	123. THR	—
114. IMT RESIST	MED	124. FRI	—
		125. SAT	—

APT TESTING

115. ALGORITHM	SEQN	>126. OCTL TONE DURATION	050
116. PROCS NBR	2	127. OCTL OPEN DURATION	030

>117. APT START TIME _____

ofcopt	5ESS Switch
SCREEN 7 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

MSU/MMSU ALARMS REPORTS	140. GLOBL TITLE	000000
>131. MISCELLANEOUS ALM OPT N	141. DAS	_____
132. OVERLAP SIZE	01	142. ACTION POINT N
133. DN PRIVACY?	N	
134. ISP DIGITS	2	
135. FAIL ID	_____	

LEASED NETWORK

136. 8 HR SCAN	N
137. 8 HR START	01
138. 8 HR FREQ	8
139. TIME OUT	4

ofcopt	5ESS Switch
SCREEN 8 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS

PPM PULSE WIDTH	150. FALSE LINK CONG LVL2	DEFAULT BRI TYPE
143. ISLU BATTERY	0	>#155. BRI TYPE _____
144. ISLU TONE	0	INTERNATIONAL OUTBOUND CALL
145. ISLU THIRD WIRE	0	151. TRAD 2-STAGE PST 010000
		152. TRAD 2-STAGE PDT 020000

SPECIAL ACCESS

146. SP ACCESS N	153. RM RTG RESTRCT Y

CCS FEATURES	Q931 PROTOCOL OPTIONS
147. EXPANDED SLS	N
148. IMPROVED SLT	N
149. MTP NODE RESTART	N

ofcopt	5ESS Switch

SCREEN 9 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

PERFORMANCE MONITORING	ISUP	ON-LINE OFFICE RECORDS
156. DSL PM ENABLE Y	165. CRA TIMER 25	>176. ENABLED? N
157. REPORT INT 01	166. EXM D TIMER 0300	177. START HOUR 23
158. CRC SES RATE 3	167. BUSY ANNC N	178. DURATION 04
159. MAX NO THR GRPS 256	168. LEC ANNC N	179. SUN N
160. PM TIME 0	169. LEC IW REL N	180. MON Y
161. BPV SES RATE 307	170. BLANK NBR REL N	181. TUE Y
162. FAC PM ENABLE Y	171. RCD 3PT1 ITC SPEECH	182. WED Y
	172. CICP BLOCK N	183. THR Y
MISMATCH DETECTION	173. ISUP APN DAS ____	184. FRI Y
163. ENABLE Y	174. IAM CRM PRIOR 1	185. SAT N
164. REPORT N	175. OFC OLI 00	

ofcopt

SCREEN 10 OF 24
(5509)

5ESS Switch
OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

HOME INTERCOM	SLC96 T1 FACILITIES	198. RDTA PIC ____
186. MAX RING TIME 180	>#191. OFF NORMAL _	
187. MAX HOLD TIME 180		911
188. MAX TALK TIME 10	ISVM OPTION	199. TIMING DELAY 0
	192. ISVM TCAP TIMER 3	
SERIES COMPLETION	REMOTE DIGITAL TEST ACCESS	
DEL BCK LNK Y	193. RDTA SCR N IDX ____	
PER CALL TEST FAILURE	194. RDTA DAS ____	
PCTF INT 60M	195. RDTA RAX ____	
	196. RDTA CODE RESTRICT ____	
	197. BRI MAX SESSION ____	

ofcopt

SCREEN 11 OF 24
(5509)

5ESS Switch
OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

ENHANCED 911	
200. E911 OPTION	INACTIVE
201. E911 DAS	____
202. E911 SCR	____
203. E911 LN SFG	____
204. E911 TRK SFG	____
PRIM E911 APID	_
SEC E911 APID	_
207. ESA SW TIME	0

208. E911 CESID BN
209. E911 RAX ____
210. E911 CODE RESTRICT ____

ofcopt 5ESS Switch
SCREEN 12 OF 24 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

OUTBOUND SERVICES	SSP 800	SPEECH ROUTING
ALT SIG SM ____	215. INH SCP NPA DEL N	SPEECH TRK GRPS ____
	216. SCP 800 DAS ____	
INDIV DIALING PLAN		NETWORK RELEASE
212. IDP DESEP ____	MDII	223. OLDEST RELEASE ____
	217. MDII INTERVAL 0	
ASI PROXY	218. MDDI THRESHOLD 20	CKT SWITCHED TRUNK
213. ASI ON N	219. MDDI MAJOR ALARM N	224. CST DAS ____
ESSENTIAL SVC PROTECT	FEATURE GROUP D	USTWC
214. ESP NORM ALW N	220. FGD PHASE PREPHASE	225. USTWC FEAT ____
	221. TCAP CIC N	226. USTWC ACT N

ofcopt 5ESS Switch
SCREEN 13 OF 24 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

227. USTWC CHRG N	OIU TDM CHBLK LMT 0000
228. SPONT AVAIL UNAVAIL	OIU IP CHBLK CNT 0000
	OIU IP CHBLK LMT 0000
NETWORK ACCESS INTERRUPT (NAI)	MAXIMUM 0
229. TOLL N	
	PHA
DNUS	237. CONG1 QCAP 50
230. FI SWITCH INT 028	238. CONG2 QCAP 80
	239. ATM LAYER SONET
OIU	
231. OFI SWITCH INT 028	240. REV QLTY THRESH 0
OIU TDM CHBLK CNT 0000	

ofcopt 5ESS Switch
SCREEN 14 OF 24 OFFICE DATA ADMINISTRATION
(5509) OFFICE OPTIONS

CNIS INTRAGROUP DELIVERY
241. CNIGI NORSTRCT


```

ofcopt                               5ESS Switch
SCREEN 15 OF 24                      OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

      CALL WAITING DELUXE              LONG DISTANCE PLATFORM              INCREASED TGN
243. ALERT TYPE      CWD2              254. LDP CARRID      _____  263. MAX TGN      2000
244. DFLT OPT        CALLFWD           255. LDP OFFICE ID   _____  264. MAX RTIDX   3617
245. USG SENS CONF   NO                256. NST ALL              N
246. SUPV ANNC       Y                 257. ACCT PROMPT        BEEP2
247. DFLT ANNC       Y                 258. CARRIER TONE      N
248. HOLD ANNC       BEGOFANNC         259. NSC WC ID          _____
249. FLASH TIMER     1.5               260. ORIG NSC           _____
250. DFLT TIMER      15                 261. TERM NSC           _____
251. HOLD TIMER      60                 262. TEST CALL TNSC     _____
252. PRODUCT         5ESS
      POFFLOSS      N

```

```

ofc opt      5ESS Switch
SCREEN 16 OF 24      OFFICE DATA ADMINISTRATION
(5509)              OFFICE OPTIONS

LOCAL NUMBER PORTABILITY      ISUP QRY OPTIONS      RTCD OPTIONS
265. JIP      _____      272. CQM RSND      10      BILL SM      ____
266. DFLT FLAT RATE NONE      273. CQ START TIME      3      277. RTCD OFC N
267. DFR STRCT CODE 500      278. RTCD ALM Y
                                279. SCP TREC AMAONLY

                                NPA-NXX GROWTH
REORDER THRESHOLDS      274. ASI SID 10      N
268. RCR MINOR      0      275. ROP DISP DN 10 N
269. RCR MAJOR      0      EEC OPTIONS
270. RCR CRITICAL      0      280. EEC ACT SIG

LDCW TREATMENT
271. LDCW TRMT N

```

```

ofcopt                               5ESS Switch
SCREEN 17 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

      PSU TRUNKS                      TALKING CALL WAITING
281. PP IDLE          4              290. ANS TIMER          2.0

```

282. PER RATE	5	291. DISC TIMER	3.0
283. PER THRESH	15	292. DN1	_____
284. PER 3G RATE	5	293. DN2	_____
285. PER 3G THRESH	15	294. DNB	_____
286. PRIM VOC ALG	EVRC	295. DNC	_____
287. SEC VOC ALG	CEV13	296. DNG	_____
		297. TCW DAS	_____
FRBC LEV 3 PER		298. TCW SCR	_____
288. MIN THRESH	0500	299. TCW SUPPRESS AMA	N
289. MAX THRESH	0900	300. TCW CARRID	_____

ofcopt	5ESS Switch
SCREEN 18 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS
301. TCW RAX	CALL SCREENING
302. TCW CODE RESTRICT	308. T SCREEN 20
	309. CS MONITOR 60
SIGI Y	
	USAGE SENSITIVE SIX WAY CALLING
304. VIRTUAL SWITCH N	310. USSWC FEAT
	311. USSWC ACT N
CALEA	312. USSWC CHRG N
305. CALEA SM	
306. ADMIN ACCESS N	CGA OPTIONS
307. TD LIMIT 50	313. CGA BUNDLE Y
	314. INH VACANT FAC N

ofcopt	5ESS Switch
SCREEN 19 OF 24	OFFICE DATA ADMINISTRATION
(5509)	OFFICE OPTIONS
315. VACANT FAC REPT TIME 2	HOST PLAT 2
NPRS PACKET GROUP	
316. NPRS TRUNK GROUP	PAG TIMERS
	323. OPS TIMER 15
DRM	324. TPS TIMER 10
317. ALARM OUTPUT OPT N	
318. ALARM INPUT OPT N	SS7 CONNECTION HOLD TIMERS
319. ALARM DURATION	325. END OFFICE 120
PLATFORM CUTOVER	
CUTOVER MODE NONE	
HOST PLAT 1	

```

ofcopt                                5ESS Switch
SCREEN 20 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                                OFFICE OPTIONS

```

CRITICAL INDICATORS		CRITICAL INDICATORS	
326. CRIT EXPANDED INBAND SGNLING	N	337. CRIT SCP 800 DAS	N
328. CRIT NM DEFAULT NPA	N	338. CRIT FGD PHASE	N
329. CRIT HOME NPA	N	339. CRIT TCAP CIC	N
330. CRIT EXTRA START WINK	N	340. CRIT USTWC FEAT	N
331. CRIT CPE OPTION	N	341. CRIT USTWC ACT	N
332. CRIT OFFICE TYPE	N	342. CRIT SPONT AVAIL	N
333. CRIT E911 OPTION	N	343. CRIT CICP BLOCK	N
334. CRIT E911 DAS	N		
335. CRIT E911 SCR	N		
336. CRIT IHN SCP NPA DEL	N		

```

ofcopt                                5ESS Switch
SCREEN 21 OF 24                       OFFICE DATA ADMINISTRATION
(5509)                                OFFICE OPTIONS

```

```

USAGE SENSITIVE CALL FORWARDING
344. USCF FEAT _____
345. USCF CFV ALERT N

SWITCH-BASED 8XX TRANSLATION INFO
346. SVC FEAT CODE 000

347. MSTMCI 30

SESSION INITIATION PROTOCOL
348. COUNTRY CODE 000
349. NATIONAL CIRCUIT CODE ____

CIC ALLOCATION
350. CAMPON TIMER 20
351. KILL CALLS Y
352. GROWTH VIA RCV N

353. PRINT ASSERT NAME N

```

```

ofcopt                               5ESS Switch
SCREEN 22 OF 24                      OFFICE DATA ADMINISTRATION
(5509)                               OFFICE OPTIONS

```

ON-HOOK DATA TRANSMISSION
358. OFC FSK OSI N

ofcopt 5ESS Switch

SCREEN 23 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

BICC TIMERS/RANGES		BICC TIMERS/RANGES		374. COMFORT NOISE GEN IDLE
BICC ADDR COMP	25	MAX RNG BGB BGU	127	
BICC COT	12	MAX RNG BGRS	127	375. OPS APM TIMER 10
BICC CQ START TIME	4	UNI SETUP IND	15	376. TPS APM TIMER 10
BICC GBLO RSND	10	UNI CONN CFM	15	377. INTG IDENTIFIER 0
BICC GRS RSND	10	UNI CONN IND	10	
BICC GUBL RSND	10	UNI REL CFM	5	GSM MAP
BICC CQM RSND	10	UNI REL IND	5	378. MAP ENABLED N
BICC RLC SHORT	10	UNI IWG REL	2	379. MAP Q RESP TIME 20
BICC RLC LONG	60			380. GTS ADDRESS _____
BICC RS RSND	10			381. GTS PSEUDO CLI _____
BICC SUS	15			382. EARLY ACM TIMER 18

ofcopt

5ESS Switch

—

SCREEN 24 OF 24
(5509)

OFFICE DATA ADMINISTRATION
OFFICE OPTIONS

GDX

383. SHARED COMPENSATOR MODE N
384. INHIBIT MTIBS USE N
540. DF2 FOR ISDN D_CHANNEL N

576. GSM ESCALATION N
577. SPOP OFF

MH REHOMING ENA N
TSI CNT 0
TSI LIMIT 0
582. ENHANCED BUFF N

Figure 6 SAMPLE OFCOPT FORM 5E20 AND LATER SOFTWARE RELEASES

SEC. 5J: 5510 RECORD SWITCHING MODULE INFORMATION FORM - IMINFO

1. GENERAL

The Switching Module Information Record is available with 5E2 and later Software Releases, and gathers and builds miscellaneous customer data related to a given SM (Switching Module). It must be completed for each SM in a multi-module 5ESS Switch.

1.1 Directly Connected Test Unit

The DCTU (Directly Connected Test Unit) measures voltage, resistance and capacitance on analog circuits for trunks and lines. It replaces manual testing previously done from the TLWS (Trunk and Line Work Station). The Route Index establishes the metallic path between a given line or trunk in an SM to be tested and the DCTU test circuits defined by the LTPs (Logical Test Ports) in a Trunk Group. DCTUs are assigned on the EQDCTU form (5751 Record).

Ordinarily, only one DCTU is required in a 5ESS Switch. If one or more DCTUs is equipped in a multi-module office, the DCTU Route Index must be defined for every SM in the office. This Route Index must be defined on the RTIDX form (5303 Record) and associated with a Trunk Group containing LTPs. Refer to Division 2, Section 2J.

1.2 Remote Switch Modules

RSM (Remote Switch Module) types ORM (Optically Remote Switching Module) and TRM (Two-Mile optically Remote Switching Module) are available with 5E3 and later. ORMs and TRMs are assigned on the EQIM form (5700-1/2 Record).

1.3 Cutover of Switch Modules

The *CUTOVER BY SM DATA* fields are related to the cutover capability. The initialization of the pre- and post-cutover status and Cutover Route Index allow the customer the choice of either a flash cutover or a gradual cut by SM. A flash cut means all customers are put into service at once on the new 5ESS Switch. A gradual cut means selected customers (based on the SM value) are cut into service on the new 5ESS Switch in a phased approach via MCC maintenance messages.

The Status refers to the state of the line in the 5ESS Switch. The normal Precut Status would be "INACTIVE", as the customer personnel does testing. After cutover procedures have been activated, the Postcut Status would be "ACTIVE"; the customer line is now being actively served by the 5ESS Switch.

If the customer prefers to cut by SM in the gradual method,

- for the SM being cut over, the Precut Status is "INACTIVE" and the Postcut Status is "ACTIVE"; and
- for the SM to be cut over later, the Precut Status and Postcut Status are both "INACTIVE". The Postcut Status would be set later to "ACTIVE" and the customer personnel would use MCC Maintenance messages and screens to individually activate each SM.

Table 1 summarizes cutover data requirements for both this form and the COTH form (5513 Record).

1.4 Recent Change View

The corresponding Recent Change Views for this form are 8.27, 10.2, 11.1 and 18.1.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * SWITCHING MODULE

Description: Enter the number of the Switching Module being defined.

Required Field.

Valid Entries: 1 - 192

Data Rules:

For 5E2 and later, in offices equipped with CM1 (Communications Module 1), the valid entries are 1-48. In offices equipped with CM2 (Communications Module 2), the valid entries are 1-192.

EQUIP RELATED RTIs

Fields Section 2.3 - Section 2.8 refer to related Route Indexes. All have Note 1 applying to the valid entries.

2.3 DCTU ROUTE INDEX

Description: Enter the DCTU Route Index if a DCTU is provided in the office or at the Remote Site.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

A DCTU Route Index must be assigned to an RSM, an ORM, or a TRM if a DCTU is provided at the RSM, ORM, or TRM.

All RSMs in the same remote site, if served by only one DCTU physically connected to an RSM within the remote site, can have the same DCTU Route Index.

For 5E5 and later, co-located ORMs (or TRMs) can have the same DCTU Route Index provided that a DCTU is physically connected to an ORM (or TRM) at the same location.

The values for DCTU ROUTE INDEX, SLIM ROUTE INDEX, ALIT ROUTE INDEX, MAJ ROUTE INDEX, CSTL ROUTE INDEX, LTD ROUTE INDEX and ALT CUTOVER RTI must be unique.

DCTU ROUTE INDEX may not be duplicated on a LINE (5109-1/2/3 Record), NOC (5501 Record), RAR (5301 Record), or FIXRT form (5301-1 Record).

The value of the DCTU Route Index must be defined on an RTIDX form (5303 Record) with an associated TGN defined on a TKGRP form (5202 Record). This Trunk Group must have LTPs assigned dedicated to the DCTU circuits (TRKCLS "LTPDCTU").

Any DCTU ROUTE INDEX entered must be assigned on an RTIDX form with ROUTE TYPE of "HUNT".

For 5E3 and later, if no DCTU is in the office, then this field must be left blank or be assigned on an RTIDX form with a ROUTE TYPE of "REORDER".

2.4 SLIM ROUTE INDEX

Description: Enter the Subscriber Line and Instrument Measurement Route Index.

This field supports the TLWS Metallic Test Capability. See Division 2, Section 4A230.

Software Release: 5E10 and later

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If a SLIM ROUTE INDEX is entered, there must be a corresponding entry on the RTIDX form with the same ROUTE INDEX and a TRUNK GROUP NUMBER entered. The TRUNK forms entered with the same TGN value must have an LTP equipment number on an SM which has a corresponding EQMMSP form with a PACK EQUIPMENT LIST TYPE of "SLIM".

If SLIM ROUTE INDEX is entered, ROUTE INDEX on the RTIDX form must be entered with a indicated TRUNK GROUP number.

If SLIM ROUTE INDEX is entered, the associated TRUNK GROUP NUMBER must have a TRUNK CLASS of "LTPSLIM" on the TRKGRP form.

SLIM ROUTE INDEX may not be duplicated on a RAR, FIXRT, or NOC form.

2.5 ALIT ROUTE INDEX

Description: Enter the Route Index Number assigned for Automatic Line Insulation Tests. An entry is required only if the SM has one or two MSUs (Metallic Service Units) or MMSUs (Modular Metallic Service Units), with at least one ALIT type pack assigned.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If a Route Index is entered, it must be defined on the RTIDX form and associated with an LTP Trunk Group (TRKCLS "LTPALIT"). For further information, refer to the section describing Automatic Line Insulation Tests within Division 2, Section 2 of this guide.

If this field is entered, this Switching Module must be equipped on the EQMSP or EQMMSP forms (5750 Record) with an MSU/MMSU Pack Type equal to "ALIT".

If ALIT ROUTE INDEX is specified, then MAJ ROUTE INDEX is required. ALIT ROUTE INDEX and MAJ

ROUTE INDEX must be unique values

ALIT ROUTE INDEX may not be duplicated on a LINE, NOC,RAR,or FIXRT form.

2.6 MAJ ROUTE INDEX

Description: Enter the Route Index Number assigned for Metallic Access Junctors. An entry is required only if the SM has one or two MSUs or MMSUs with at least one MACC (Metallic Access Circuit) type pack assigned.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If a Route Index is entered, it must be defined on the RTIDX form and associated with an LTP Trunk Group (TRKCLS "LTPMSU"). For further information refer to the section describing Metallic Access for Line and Trunk Testing within Division 2, Section 2 of this guide.

If this field is entered, this Switching Module must be equipped on the EQMSP or EQMMSP forms with an MSU/MMSU MSU Pack Type equal to "MACC".

MAJ ROUTE INDEX may be assigned without ALIT ROUTE INDEX being assigned (that is, an SM may be equipped with an MSU which has an MACC pack but no ALIT pack).

MAJ ROUTE INDEX may not be duplicated on a LINE, NOC,RAR,or FIXRT form.

2.7 CSTL ROUTE INDEX

Description: Enter the Coin Station Test Line (CSTL) Route Index. This Route Index is only used in the routing of outgoing CSTL calls from RSMs, ORMs or TRMs. The CSTL Route Index points to a Trunk Group containing outgoing CSTL trunks (from the SM).

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The value of CSTL ROUTE INDEX may not be entered for any of the other Route Indexes on this form; that is, DCTU ROUTE INDEX, ALIT ROUTE INDEX, MAJ ROUTE INDEX, LTD ROUTE INDEX or ALT CUTOVER RTI. This value also cannot be duplicated on other IMINFO forms, unless the RSM is part of an RSM cluster or if the RSM is one in a group of co-located ORMs (or TRMs). If a Route Index is entered, it must be defined on an RTIDX form.

CSTL ROUTE INDEX may not be duplicated on a NOC, RAR,or FIXRT form.

If the RSM is part of a cluster, then this field can have the same value entered on the IMINFO forms for all RSMs in the cluster. For example, if CSTL ROUTE INDEX on the IMINFO form for SM3 and the IMINFO form for SM90 are both 101, then SM3 and SM90 are part of a cluster and the corresponding EQIM forms for SM3 and SM90 should have the same RSM SITE or REMOTE SITE value.

Each RSM equipped with an outgoing CSTL trunk(s) must have its own outgoing CSTL Trunk Group as well as its own unique Route Index which points to it unless the RSM is a member of a cluster.

This field must be used only for RSMs equipped with an outgoing CSTL trunk; that is, CSTL ROUTE INDEX must equal ROUTE INDEX on an RTIDX form, where the Trunk Group assigned to the Route Index is defined on a TKGRP form with TRKCLS equal to "TSTK".

For 5E5 and later, ORMs (or TRMs) can have the same CSTL ROUTE INDEX if they are co-located.

2.8 LTD ROUTE INDEX

Description: Enter the LTD (Local Test Desk) Route Index. This Route Index is only used in the routing of outgoing LTD calls from RSMs or with ORMs or TRMs available with 5E3 and later. The LTD Route Index points to a Trunk Group containing outgoing LTD trunks from the SM. This field is used only for Remote Switching Modules (RSMs, ORMs or TRMs).

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The value of LTD Route Index may not be entered for any of the other Route Indexes on this form; that is, DCTU ROUTE INDEX, ALIT ROUTE INDEX, MAJ ROUTE INDEX, CSTL ROUTE INDEX or ALT CUTOVER RTI. This value also cannot be duplicated on other IMINFO forms, unless the RSM Module is part of an RSM cluster, or if the RSM is one in a group of co-located ORMs (or TRMs). If a Route Index is entered, it must be defined on an RTIDX form.

LTD ROUTE INDEX may not be duplicated on a NOC, RAR, or FIXRT form.

For 5E5 and later, ORMs (or TRMs) can have the same LTD ROUTE INDEX if they are co-located.

This field must be used only for RSMs, ORMs or TRMs equipped with an outgoing LTD trunk; that is, LTD ROUTE INDEX must equal ROUTE INDEX on an RTIDX form, where the Trunk Group assigned to the Route Index is defined on a TKGRP form with TRKCLS equal to "TSTK".

CUTOVER BY SM DATA

Fields Section 2.9 - Section 2.11 refer to cutover of SMs.

2.9 PRECUT STATUS

Description: Enter the precut mode status of the SM.

Valid PRECUT STATUS Entries	
Entry	Definition
ACTIVE	The SM is active.
INACTIVE	The SM is inactive.

Data Rules:

If the SMs are going to be cut over in a flash cut or gradually (see Section 1.3), this field should be set to "INACTIVE".

For 5E4(2) and later, for LTG (Large Terminal Growth), if PRECUT STATUS is "INACTIVE" and the OFCOPT form (5509 Record) has CUTOVER equal to "N", the ODA Project Consultants should be called to change CUTOVER to "Y".

For 5E4(2) and later, if the office is undergoing LTG, IMINFO forms with both PRECUT STATUS and POSTCUT STATUS set to "ACTIVE" should be investigated. PRECUT STATUS and POSTCUT STATUS may need to be blank. If no new lines are added to this SM, then PRECUT STATUS and POSTCUT STATUS should be blank. Refer to the official LTG documentation for formal procedures.

Existing TNs cannot be defined for an SM with an "INACTIVE" PRECUT STATUS.

2.10 POSTCUT STATUS

Description: Enter the postcut mode status of the SM.

Valid POSTCUT STATUS Entries	
Entry	Definition
ACTIVE	The SM is active.
INACTIVE	The SM is inactive.

Data Rules:

For a flash cutover, this field should be set to "ACTIVE". For an SM to be cut over at a later time, set this field to "INACTIVE". When using the gradual cut, MLHG members are cut into service based on the SM value of the LEN associated with the main directory number (Member 1) of the MLHG regardless of the LEN values of each member.

For 5E4(2) and later, if the office is undergoing LTG (Large Terminal Growth), IMINFO forms with both PRECUT STATUS and POSTCUT STATUS set to "ACTIVE" should be investigated. PRECUT STATUS and POSTCUT STATUS may need to be blank. If no new lines are added to this SM, then PRECUT STATUS and POSTCUT STATUS should be blank. Refer to the official LTG documentation for formal procedures.

2.11 ALT CUTOVER RTI

Description: Enter the Alternate Cutover Route Index, which is required for every SM. This Route Index routes calls terminating to a pre-cutover line in the "INACTIVE" state. The Route Index may be associated with reorder tone, a recorded announcement, or an outgoing Trunk Group to the existing office in which the Telephone Number is active.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

This field must be entered for initial and growth offices.

The ALT CUTOVER RTI must not be duplicated on the FIXRT, LINE, NOC, or RAR forms.

2.12 MFR FREQUENCY CLASS

Description: Enter the valid Frequency Class for this SM.

Required Field.

Default: NON

Valid Entries:

Valid MFR FREQUENCY CLASS Entries	
Entry	Definition
NON	SM does not support MFR customer lines
HAR	Harmonic Frequency Series
SYN	Synchromonic Frequency Series
DEC	Decimonic Frequency Series

Data Rules:

All SMs that have any MFR (Multi-Frequency Ringing) customers assigned must have the appropriate MFR Frequency Class specified. See Division 3, Sections 1I and 1K for the table giving the correspondence of MFR Frequency Class to Party value assigned to customer MFR lines on the LINE and MLHLN forms (5111-1/2/3 Record).

If an SM does not support MFR, a value of "NON" is required in this field.

For SMs with an entry other than "NON", all line units defined on EQLUP forms (5711 Record) must have LINE UNIT TYPE not equal to "4AB1".

2.13 2 PARTY ANI

Description: Is there ANI (Automatic Number Identification) for two-party lines? If this field is set to "Y", ANI is used; if set to "N", ONI (Operator Number Identification) is used. This field should be specified at ODA time. There is no Recent Change support for this field.

Software Release: 5E5 and later

Required Field.

Valid Entries: Y, N

Data Rules:

If this field is "Y", then each of the LINE forms which have the same OE NUMBER defined for this SM must have PTY entered, with only 1 tip party assignment when PTY is "T", 0, or 6 - 9 and/or 1 ring party assignment where PTY is "R" or 1 - 5.

2.14 PROHIBIT DT

Description: Is disconnect timing prohibited?

Software Release: 5E5 and later

Required Field.

Default: N

Valid Entries: Y, N

MSU/MMSU ALARMS CONTROLS

Fields Section 2.15 - Section 2.16 refer to parameters used to measure chatter.

2.15 CHATTER SAMPLING

Description: Enter the sampling time in seconds used for chattering controls.

Software Release: 5E5 and later
Default: 1
Valid Entries: 1 - 10 (seconds)

2.16 CHATTER TRANSITION

Description: Enter the number of MMSU scan point transitions for chattering.

Software Release: 5E5 and later
Default: 4
Valid Entries: 0 - 60

2.17 UTD LIMIT

Description: Enter the percentage of UTDs (Universal Tone Decoders) on the SM that may be used for ASI (Advanced Service Interface) Proxy.

Software Release: 5E8 and later
Required Field.
Default: 10
Valid Entries: 0 - 100 (%)

2.18 LOCAL LOSS

Description: Enter the time slot interchanger local loss. See the Far Access Remote secured feature in Division 2, Section 4A184.

Software Release: 5E9(2) and later
Required Field.
Default: 0.0
Valid Entries: 0.0 - 15.0 (dB in 0.5 increments)

Data Rules:

The LOCAL LOSS and REMOTE LOSS fields on the IMINFO form are used by the Far Access Remote secured feature. The feature must be purchased by the office, and an SFSYS form must exist with the ACT field for SFID 184 set to "Y" before data can be changed from the default value 0.0.

2.19 REMOTE LOSS

Description: Enter the time slot interchanger remote loss. See the Far Access Remote secured feature in Division 2, Section 4A184.

Software Release: 5E9(2) and later
Required Field.
Default: 0.0
Valid Entries: 0.0 - 15.0 (dB in 0.5 increments)

Data Rules:

See data rules for LOCAL LOSS.

2.20 STOR UTD LIMIT

Description: Enter the maximum percentage of UTDs (Universal Tone Decoders) on the SM available for STOR. This field specifies the maximum percentage of UTDs (Universal Tone Decoders) that may be used by the AIN SSP STOR (Send to Outside Resource) (Local) secured feature (SFID 229). For more information on the AIN SSP STOR (Local) feature, see Division 2, Section 4A229.

Software Release: 5E10 and later

Required Field.

Default: 10

Valid Entries: 0 - 100

Data Rules:

Since AIN SSP STOR (Send To Outside Resource) (Local) is a secured feature and must be purchased by the office before STOR data can be assigned, STOR UTD LIMIT must be 10 until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

2.21 ODTMF UTD LIMIT

Description: The ODTMF UTD LIMIT (Originating Dual Tone Multi-Frequency Universal Tone Decoders Limit) field is used to specify the maximum percentage of UTD (Universal Tone Decoders) that may be used by the O_DTMF event for the ASP (Advanced Services Platform) Mid Call Event Detection feature. This is expressed as a percentage of the total available UTDs on the Switching Module. For more information on the ASP Mid Call Event Detection feature, see Division 2, Section 4A343.

Software Release: 5E13, 5E15 and later

Required Field.

Default: 10

Valid Entries:

For 5E13 and 5E14: 1 - 100

For 5E15: 0 - 100

Data Rules:

When the ODTMF UTD LIMIT field is set to a valid value other than 10, the ACT field for SFID 345 on the SFSYS form (5713-1 Record) must be set to "Y".

- **WARNING:** When ODTMF UTD LIMIT is greater than 50% of the available UTDs assigned for Mid Call Event, call originations using UTD may be impacted.

CORC LOG BUFFER

Fields Section 2.22 - Section 2.23 refer to parameters used to set thresholds for controlling the Customer Originated Recent Change Log Buffer. CORCs are customer activated changes, such as call-forwarding, which affect switch data. The CORC log buffer maintains CORC changes which are periodically "flushed" to disk. The following fields define the frequency of CORE flushes.

2.22 CORC FLUSH

Description: This field specifies how full the CORC log buffer must be before a CORC "flush" will take place. This threshold is expressed as the percent of the total available CORC log buffer.

Software Release: 5E9(2) and later

Default: 50

Valid Entries: 20 - 80 percent

2.23 TOD CORCS

Description: This field specifies the number of Time of Day CORCs allowed in the log buffer before a CORC flush may take place.

Software Release: 5E9(2) and later

Valid Entries: 1 - 20

NUMBER PORTABILITY

This field group was added to accommodate local number portability. This is a secured feature with SFID 199. For more information on Number Portability, see Division 2, Section 4A174.

2.24 JIP

Description: This field specifies the JIP (Jurisdiction Information Parameter) and is used with number portability. It specifies the ISUP parameter used, on a per-SM basis, when generating the IAM (Initial Address Message). This parameter contains the NPA/NXX combination of the designated LRN (Location Routing Number) representing this SM.

When this SM serves as a community dial office replacement with a wire-center different than the host office, the JIP overrides the office parameter defined on the OFCOPT form (5509 Record). The per-SM parameter is used in IXC (Inter-eXchange Carrier) AMA Access recording for IXC handled calls originating or terminating to or from ported DNs on the SM.

This feature was added for the AMA Billing feature. For more information on AMA Billing, see Division 2, Section 4A199.

Software Release: 5E11 and later

Valid Entries: Blank or 6 digits (0 - 9)

2.25 ALIT IMT RESIST

Description: This field defines the ALIT insulation resistance threshold ranges used for LIT testing of IMT (Integrated Metallic Testing) lines.

Software Release: 5E16(2) FR6 and later

Valid Entries:

Valid IMT RESIST Entries	
Entry	Definition
blank	null.
XLO	Equivalent to MSU ALIT TN1636 (range 20KOhm to 2.5MOhm)
LOW	Equivalent to MSU ALIT TN328, TN1613, TN1538 (range 80KOhm to 2.5MOhm)
MED	Equivalent to MSU ALIT TN329, TN1614, TN1539 (range 80KOhm to 5MOhm)
HIGH	Equivalent to MSU ALIT TN330, TN1615, TN1540 (range 320KOhm to 5MOhm)

SMs SERVING:	OFFICE	TYPE	IMINFO form		COTH form	
			PRECUT	POSTCUT	PRECUT	POSTCUT
New 1000s Groups Only	Initial or LTG	Flash	Inactive	Active	Not Required	
		SM		Inactive/Active as Required	Not Required	

		1000s Group	Active	Active	Inactive	Inactive/Active as Required
Existing 1000s Groups Only	LTG	Any	Blank	Blank	Not Required	
Both New and Existing 1000s Groups		Any	Active	Active	Not Required (existing)	
					Inactive (new)	Inactive/Active as Required (new)

Figure 1 CUTOVER DATA REQUIREMENTS

```

iminfo                      5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5510)                   SWITCHING MODULE INFORMATION

*1. SWITCHING MODULE 001          CUTOVER BY SM DATA
                                8. PRECUT STATUS _____
                                9. POSTCUT STATUS _____
                                10. ALT CUTOVER RTI _____
                                11. MFR FREQUENCY CLASS NON
EQUIP RELATED RTIs
2. DCTU ROUTE INDEX _____
3. SLIM ROUTE INDEX _____
4. ALIT ROUTE INDEX _____
5. MAJ ROUTE INDEX _____
6. CSTL ROUTE INDEX _____
7. LTD ROUTE INDEX _____
                                #12. 2 PARTY ANI          Y
                                13. PROHIBIT DT          N

                                MSU/MMSU ALARMS CONTROLS
                                14. CHATTER SAMPLING 01
                                15. CHATTER TRANSTION 04

```

```

iminfo                      5ESS Switch
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5510)                   SWITCHING MODULE INFORMATION

16. UTD LIMIT 10          NUMBER PORTABILITY
                           23. JIP _____

17. LOCAL LOSS          0.0
18. REMOTE LOSS          0.0
19. STOR UTD LIMIT 10
20. ODTMF UTD LIMIT 10

CORC LOG BUFFER
21. CORC FLUSH 50
22. TOD CORCS ____

```

Figure 2 SAMPLE IMINFO FORM 5E13 THROUGH 5E16(1) SOFTWARE RELEASES

```

iminfo                      5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5510)                   SWITCHING MODULE INFORMATION

*1. SWITCHING MODULE ____          CUTOVER BY SM DATA

```

EQUIP RELATED RTIs	8. PRECUT STATUS _____
2. DCTU ROUTE INDEX _____	9. POSTCUT STATUS _____
3. SLIM ROUTE INDEX _____	10. ALT CUTOVER RTI _____
4. ALIT ROUTE INDEX _____	11. MFR FREQUENCY CLASS NON
5. MAJ ROUTE INDEX _____	#12. 2 PARTY ANI _____
6. CSTL ROUTE INDEX _____	13. PROHIBIT DT N
7. LTD ROUTE INDEX _____	
	MSU/MMSU ALARMS CONTROLS
	14. CHATTER SAMPLING 01
	15. CHATTER TRANSTION 04

iminfo	5ESS Switch _____
SCREEN 2 OF 2	OFFICE DATA ADMINISTRATION
(5510)	SWITCHING MODULE INFORMATION
16. UTD LIMIT 10	NUMBER PORTABILITY
	23. JIP _____
17. LOCAL LOSS 0.0	24. ALIT IMT RESIST _____
18. REMOTE LOSS 0.0	
19. STOR UTD LIMIT 10	
20. ODTMF UTD LIMIT 10	
CORC LOG BUFFER	
21. CORC FLUSH 50	
22. TOD CORCS ____	

Figure 3 SAMPLE IMINFO FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5K: 5511 RECORD TRUNK AND LINE WORK STATION FORM - TLWS

1. GENERAL

The 5511 Record is available in 5E2 and later Software Releases and defines each TLWS (Trunk and Line Work Station) associated with a 5ESS Switch. An MCC (Master Control Center) TLWS is required in every 5ESS Switch and must be defined on the 5511 Record.

If the TLWS is equipped with a TAU (Test Access Unit), this record defines the LTP (Logical Test Port), Metallic Test Bus, and the Cut-Thru and Diode Distribute Points assigned to each DC Jack and the AC Jack TENS (Trunk Equipment Numbers).

1.1 Logical Test Port Assignments

LTP assignments are made by machine owner. The Metallic Test Bus and Distribute Point assignments are also made by machine owner, but are taken from a list of available assignments provided by Lucent Technologies. All DC Jack assignments for each TLWS must be in the same SM (Switching Module).

The 5511 Record is formatted in such a way that two lines of data may be required for each TLWS. The first line of data contains the WSN (Work Station Number), the T&M (Talk and Monitor) Telephone Numbers (if applicable), an indication of a possible TAU, DC Jack 1 and AC Jack Trunk Data assignments. The second line of data contains the DC Jack 2 assignments. If the TLWS is not equipped with a TAU, only one line of data is required.

1.2 Device Identification

For 5E6 and earlier, when each TLWS form is entered into ODA, a DEVID (Device Identification) value is computed by the ODA program based on the WSN. The DEVID is also output if the 5511 Record is requested. The following table shows the correspondence of WSN to DEVID:

WSN	DEVID	DESCRIPTION
1	a	TLWS in the MCC.
2	z	TLWS in an SCC (Switching Control Center).
3	l	First Supplemental TLWS.
4	m	Second Supplemental TLWS.
5	n	Third Supplemental TLWS.
6	o	Fourth Supplemental TLWS.
7	j	Fifth Supplemental TLWS.
8	k	Sixth Supplemental TLWS.

For 5E7 and 5E8, the DEVID value must be entered; it is not automatically computed. For 5E9(1) and later, DEVID is optional.

1.3 Talk and Monitor Telephone Number

Each TLWS may be assigned a T&M Telephone Number, which is Local or Remote. A TLWS may not have assignments for both. A local Telephone Number is used if the TLWS may be served by the local 5ESS Switch line equipment (either an LEN or SLEN) and the NXX is defined in the OFFICE CODE field on a NOC form (5501 Record). Otherwise, the T&M Monitor is a remote Telephone Number.

1.4 Recent Change View

The corresponding Recent Change View for this form is 14.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * WORK STATION NUMBER

Description: Enter the WSN.

Required Field.

Valid WORK STATION NUMBER Entries	
Entry	Definition
1	MCC (Master Control Center).
2	SCC (Switching Control Center).
3-8	
3 - 32	Software Release: 5E9(1) and later. Supplemental TLWS.

Data Rules:

Work Station Number 1 is required for every 5ESS Switch. The only valid entries for single module offices are 1 and 2.

For 5E6 and earlier, a value between 3 and 8, entered in this field is directly related to entries on the ECDOPT form (5706 Record) for new or growth offices.

For 5E4(2) through 5E6, the introduction of Flexible IOP (Input/Output Processor) selection altered the ECDOPT form. A given WORK STATION NUMBER is directly related to an entry in the DVT (Device Type) element of a member of IOP LIST on the ECDOPT form. The table below shows what DVT value to use for a particular WORK STATION NUMBER. If the WORK STATION NUMBER is not defined on a TLWS form, that value should not be used in the IOP LIST.

5E4(2) - 5E6 Software Releases	
WORK STATION NUMBER	IOP List DVT Value
3	TTY11
4	TTY12
5	TTY13
6	TTY14
7	TTY09
8	TTY10

For 5E7 and later, there is no automatic assignment of a DVT value on the ECDOPT form by WORK STATION NUMBER.

For 5E9(1) and later, if WORK STATION NUMBER is set to 1, it is recommended that DEVID be "a".

2.3 DEVID

Description: For 5E6 and earlier, this was a Recent Change field, with the Device Identification automatically computed based on the WORK STATION NUMBER entered.

Software Release: 5E7 and later

Required Field for 5E8 and earlier.

Valid Entries:

I

Valid DEVID Entries	
Entry	Description
a	
z	
j - o	Supplemental TLWS.
C - I	Supplemental TLWS.
Y	Supplemental TLWS.

Data Rules:

For 5E7 - 5E8, the following table shows the DEVICE TYPE which must be entered on the ECDOPT form for a DEVID entry. For 5E9(1) and later, adherence to the corresponding values in this table is not required but is recommended.

5E7 - 5E8 Software Releases		
DEVID	DEVICE TYPE	NAME
I	TTY11	STLWS1
m	TTY12	STLWS2
n	TTY13	STLWS3
o	TTY14	STLWS4
j	TTY9	STLWS5
k	TTY10	STLWS6
C	TTY28	STLWS7
D	TTY29	STLWS8
E	TTY30	STLWS9
F	TTY31	STLWS10
G	TTY32	STLWS11
H	TTY33	STLWS12
I	TTY34	STLWS13
Y	TTY50	STLWS14

If DEVID is "a", it is recommended that WORK STATION NUMBER be 1.

2.4 REMARKS

Description: Enter any comments deemed locally necessary.

Valid Entries: up to 16 characters (alphanumeric or

- blank)

2.5 LOCAL TALK & MONITOR TN

Description: Enter the Local T&M Telephone Number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

An entry is required for Work Station 1, and is optional for Work Stations 2-8. A Telephone Number entered must be a Telephone Number served by the 5ESS Switch, i.e., the NXX is defined in the OFFICE CODE field on a NOC form.

It is recommended that:

- all Local T&M phones on the TLWS forms be members of the same MLHG and defined on an MLHLN form (5111-1 Record).

- all Local T&M phones have an individual DN (Directory Number).
- if only Work Station 1 is equipped, the local T&M phone be an MLHG member. A T&M TN that is an individual line must be defined on the LINE form (5109 Record). Whether the Telephone Number is an individual line or an MLHG member, the Telephone Number must have a "Y" in the SUSO field on the LINE or MLHLN form and a CLASS OF SERVICE of "CALLBK" on an LCC form (5306 Record).

For 5E8, the Local T&M must also be assigned on either the LINE form or the MLHLN form with OE TYPE and NUMBER entered, with ICPT set to "N". The LCC/RAX combination on the LINE form or MLHLN form must also appear on the LCC form with a SERVICE CLASS of "CALLBK".

For 5E9 and later, the Local T&M must also be assigned on either the LINE form or the MLHLN form with OE TYPE and NUMBER entered, with ICPT set to "N". The LCC/RAX combination on the LINE form or MLHLN form must also appear on the LCC form with a SERVICE CLASS of "LTPCLBCK".

Either the LOCAL TALK & MONITOR TN field or the REMOTE TALK & MONITOR TN field may be entered, but not both.

If 1 is entered in the WORK STATION NUMBER field, either the LOCAL TALK & MONITOR TN or the REMOTE TALK & MONITOR TN field must be entered.

For 5E12 and later, if the first 3 digits of the 7-digit LOCAL TALK & MONITOR TNs on the TLWS form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the following 7-digit LOCAL TALK & MONITOR TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.6 REMOTE TALK & MONITOR TN

Description: Enter a Remote Talk and Monitor Telephone Number.

The Telephone Number is used for terminating TLWS T&M requests and 101 Test Line calls to the remote TLWS, and may be served by any other office. A 0+ number is not recommended.

Valid Entries: 7 or 10 digits plus an optional 0 or 1 prefix

- For 5E7 and earlier: 200 - 919 middle digit 0 - 1
- For 5E8 and later: 200 - 999

Data Rules:

An entry is made in this field only if the TLWS is remote from the 5ESS Switch.

If a Local T&M TN has been entered for this TLWS, this field must be left blank.

When a T&M or 101 Test Line call must be terminated to this TN, the TN is screened and routed as if dialed by a line with the LTP SCR and LTP DAS fields of the OFCOPT form entered.

If 1 is entered in the WORK STATION NUMBER field, then either this field or the LOCAL TALK & MONITOR TN field must be entered.

2.7 REMOTE TALK & MONITOR LTP

Description: Enter the LTP for the Remote T&M TN.

Valid Entries: A six-digit number of the following format:

REMOTE T&M LTP			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Logical Test Port	LTP	XXX	000-255

Data Rules:

If a Remote T & M TN is specified, an LTP must be entered.

The LTP may be assigned in any equipped SM, and must be assigned to a member of an outgoing LTP Trunk Group on the TKGRP form (5202-1) Record, with HUNT TYPE set to "FIFO" and TRKCLS set to "LTPCLBCK".

The value entered in this field must not be duplicated in the TALK & MONITOR LTP field on a CTTU form (5518 Record).

2.8 TEST ACCESS UNIT EQUIPPED

Description: Is the TLWS1 equipped with a TAU?

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

TAU must equal "N" if the WSN is 2. The Supplemental TLWSs (WSN is 3 through 8) may be optionally equipped with a TAU.

If TAU equals "Y", all of the fields for AC JACKs and DC JACKs must be entered. If TAU equals "N", all the fields for AC JACKs and DC JACKs must not be entered.

2.9 CARRIER ID

Description: Enter an InterLATA Carrier ID, if required, for the Remote T&M TN. If the digit interpreter tables referenced by the LTP DAS on the OFCOPT form (5509 Record), define the Remote T&M TN as an InterLATA call, a Carrier ID is required to route the call back to the Remote Talk and Monitor TN.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Any Carrier ID entered must be defined on an ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must equal "D".

DC-JACK Assignments

Fields Section 2.10 -Section 2.17 refer to DC-JACK assignments. Entries are required in these fields when the TLWS is equipped with a TAU. If the TLWS is not equipped with a TAU, these fields must be blank. For 5E8 and earlier, all DC Jack assignments for each TLWS must be in the same SM.

2.10 DC-JACK 1 LOGICAL TEST PORT

Description: Enter the LTP assigned to DC Jack #1.

Valid Entries: A 6-digit number of the following format:

LOGICAL TEST PORT			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Logical Test Port	LTP	XXX	000-255

2.11 DC-JACK 1 METALLIC TEST BUS

Description: Enter the MTB (Metallic Test Bus) assignment for DC Jack #1.

Valid Entries: A nine-digit number of the following format:

METALLIC TEST BUS			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Bus	BUS	XX	00-14

Data Rules:

The METALLIC TEST BUS entry must be unique within the 5ESS Switch.

The MTB assigned to DC Jack #1 must be associated with the same MSU Unit as the MTB assigned to DC Jack #2 and must be in SVG 0.

MTB Point 15 of every MACC (Metallic Access Circuit) pack is reserved for general internal MSU and MMSU (Modular Metallic Service/Switch Unit) diagnostics. Protocol tests or diode resistor tests are included in general internal diagnostics.

For 5E9(1) and later, LTPs, MTBs, and DPs assigned on this form must reside in the local office and may not terminate to an ORM, RSM or TRM (the first three characters of the MTB represent the SM).

2.12 DC-JACK 1 CUT-THRU DIST. PT.

Description: Enter the Cut-Thru Distribute Point assigned to DC Jack #1.

Valid Entries: A nine-digit number of the following format:

CUT-THRU DIST. PT.			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

Data Rules:

The Cut-Thru Distribute Point associated with DC Jack #1 must be assigned to Service Group 0. Refer to Division 8, Section 1 for procedures to obtain the DPN assignments.

The DIST. PT. entry must be unique within the 5ESS Switch. The entry must also appear on an EQMSP form (5750 Record) or EQMMSP form (5750 Record) with the TYPE element in the PACK EQUIPMENT LIST set to "DIST".

For 5E9(1) and later, LTPs, MTBs, and DPs assigned on this form must reside in the local office and may not terminate to an ORM, RSM or TRM (the first three characters of the MTB represent the SM).

2.13 DC-JACK 1 DIODE DIST. POINT

Description: Enter the Diode Distribute Point assigned to DC Jack #1.

Valid Entries: A nine-digit number of the following format:

DIODE DIST. PT.			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-31

Data Rules:

The Diode Distribute Point associated with DC Jack #1 must be assigned to SVG 0. Refer to Division 8, Section 1 for procedures to obtain the DPN assignments.

The DIST. PT. entry must be unique within the 5ESS Switch. The entry must also appear on an EQMSP form (5750 Record) or EQMMSP form (5750 Record) with the TYPE element in the PACK EQUIPMENT LIST set to "DIST".

2.14 DC-JACK 2 LOGICAL TEST PORT

Description: Enter the LTP assigned to DC Jack #2.

Valid Entries: A six-digit number of the following format:

LOGICAL TEST PORT			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-127
Logical Test Port	LTP	XXX	000-255

Data Rules:

The value must not be the same as the value used for DC-JACK 1. Refer to Division 8, Section 1 for procedures to obtain these assignments.

For 5E9(1) and later, LTPs, MTBs, and DPs assigned on this form must reside in the local office and may not terminate to an ORM, RSM or TRM (the first three characters of the MTB represent the SM).

2.15 DC-JACK 2 METALLIC TEST BUS

Description: Enter the MTB assignment for DC Jack #2.

Valid Entries: A nine-digit number of the following format:

METALLIC TEST BU			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Bus	BUS	XX	00-14

Data Rules:

The METALLIC TEST BUS entry must be unique within the 5ESS Switch.

The MTB assigned to DC Jack #2 must be associated with the same MSU as the MTB assigned to DC Jack #1 and must be in SVG 1.

MTB Point 15 of every MACC pack is reserved for general internal MSU and MMSU diagnostics. Protocol tests or diode resistor tests are included in general internal diagnostics.

2.16 DC-JACK 2 CUT-THRU DIST. POINT

Description: Enter the Cut-Thru Distribute Point assigned to DC Jack #2.

Valid Entries: A nine-digit number of the following format:

CUT-THRU DIST. PT.			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Distribute Point Number	DPN	XX	00-30

Data Rules:

The Cut-Thru Distribute Point associated with DC Jack #2 must be assigned to SVG 1.

The DIST. PT. entry must be unique within the 5ESS Switch. The entry must also appear on an EQMSP form (5750 Record) or EQMMSP form (5750 Record) with the TYPE element in the PACK EQUIPMENT LIST set to "DIST".

2.17 DC-JACK 2 DIODE DIST. POINT

Description: Enter the Diode Distribute Point assigned to DC Jack #2.

Valid Entries: A nine-digit number of the following format:

DIODE DIST. PT.			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	1
Board	BRD	XX	00-15
			(Regular MSU)

			00-31 (Modular MSU)
Distribute Point Number	DPN	XX	00-31

Data Rules:

The Diode Distribute Point associated with DC Jack #2 must be assigned to SVG 1.

The DIST. PT. entry must be unique within the 5ESS Switch. The entry must also appear on an EQMSP form (5750 Record) or EQMMSP form (5750 Record) with the TYPE element in the PACK EQUIPMENT LIST set to "DIST".

AC JACK TRUNK DATA

Fields Section 2.18 -Section 2.19 refer to AC Jack Trunks. Entries are required in these fields only when the TLWS is equipped with a TAU. Otherwise, leave these fields blank.

The TENs (Trunk Equipment Numbers) entered in the AC-JACK 1 TEN and AC-JACK 2 TEN fields must be assigned on a TRUNK form (5204-1 Record). In 5E2, the entry appears in the TEN field. In 5E3 and later, the entry may appear in the TEN field or be "implied" by the value in the QTY field. The QTY field defines a maximum of 24 Trunk Members with one form. The requisite hardware is assigned sequentially.

The TENs entered in the AC-JACK 1 TEN and AC-JACK 2 TEN fields must be associated with a Trunk Group whose TRKCLS on the TKGRP form is set to "ACJCK".

For 5E15 FR 5 (Feature Release 5) and later, the names have been changed for AC-JACK 1 TEN and AC-JACK 2 TEN to AC-JACK 1 OE and AC-JACK 2 OE. Prior to 5E15 FR 5 and later, the TEN is restricted to SVG 1 of a Trunk Unit.

2.18 AC-JACK 1 OE

Description: This field is used if the TRUNK and LINE Workstation is equipped with a TAU (Test Access Unit). These fields supports the Digital Trunk Interface for TAU feature. For more information on this feature see Division 2, Section 4A632.

Valid Entries: Prior to 5E15 FR1 a seven-digit number of the following format:

TRUNK EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Trunk Unit	TU		0-7
Service Group	SVG	X	0
Pack	PK	X	0-7
Circuit	CKT	X	0-3

For 5E15 FR1 and later:

DEN (Digital Line and Trunk Unit) Equipment Number			
Equipment		Format	Valid Entries
SM	Switching Module	XXX	001-192
DLTU	Digital Line Trunk Unit	XXX	000-011
DFI	Digital Facility Unit	XX	01-10
DCHAN	Digital Channel	XX	01-48

NEN (Digital Networking Unit - SONET) Equipment Number			
Equipment		Format	Valid Entries
SM	Switching Module	XXX	001-192

DNUS-S	Digital Networking Unit - SONET	X	0-7
DG	Data Group	X	0-1
STE	Synchronous Transport Signal	X	1-6
STS	SONET Termination Equipment	X	1
VTG	Virtual Tributary Group	X	1-7
VTM	Virtual Tributary Member	X	1-4
DS0	Digital Signal Level 0	XX	01-24

TEN (Analog TU (Trunk Unit)) Equipment Number			
Equipment		Format	Valid Entries
SM	Switching Module	XXX	001-192
TU	Trunk Unit	X	0-7
SWG	Switch Group	X	0-1
GR	Group	X	0-7
CKT	Circuit	X	0-3

Data Rules:

For offices equipped with CM1 Communications Module, valid SM entries are 1-48. For offices equipped with CM2, valid entries are 1-192.

For 5E15 FR1 and later,

AC-JACK 1 OE must be assigned to Service Group 0 for TEN type trunks defined on the TRUNK form (5204 Record)..

When AC-JACK 1 OE and AC-JACK 2 OE are entered on the TLWS form with types equal to "D" or "N", the ACT field for SFID 632 on the SFSYS form (5713-1 Record) must be set to "Y".

When equipments are associated with the AC-JACK 1 OE or AC-JACK 2 OE fields, the TKGRP form must be defined with TRKCLS equal to "ACJCK".

When AC-JACK 1 OE or AC-JACK 2 OE is assigned, a corresponding TRUNK form must exist.

2.19 AC-JACK 2 OE

Description: This field is used if the TRUNK and LINE Workstation is equipped with a TAU (Test Access Unit). These fields supports the Digital Trunk Interface for TAU feature. For more information on this feature see Division 2, Section 4A632. Prior to 5E15 FR 5 and later, the TEN is restricted to SVG 1 of a Trunk Unit.
Valid Entries: Prior to 5E15 FR 5 a seven-digit number of the following format:

TRUNK EQUIPMENT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Trunk Unit	TU		0-7
Service Group	SVG	X	1
Pack	PK	X	0-7
Circuit	CKT	X	0-3

For 5E15 FR1 and later:

DEN (Digital Line and Trunk Unit) Equipment Number			
Equipment		Format	Valid Entries
SM	Switching Module	XXX	001-192
DLTU	Digital Line Trunk Unit	XXX	000-011

DFI	Digital Facility Unit	XX	01-10
DCHAN	Digital Channel	XX	01-48

NEN (Digital Networking Unit - SONET) Equipment Number

Equipment	Format	Valid Entries
SM	Switching Module	XXX
DNUS-S	Digital Networking Unit - SONET	X
DG	Data Group	X
STE	Synchronous Transport Signal	X
STS	SONET Termination Equipment	X
VTG	Virtual Tributary Group	X
VTM	Virtual Tributary Member	X
DS0	Digital Signal Level 0	XX

TEN (Analog TU (Trunk Unit)) Equipment Number

Equipment	Format	Valid Entries
SM	Switching Module	XXX
TU	Trunk Unit	X
SWG	Switch Group	X
GR	Group	X
CKT	Circuit	X

Data Rules:

For offices equipped with CM1, valid SM entries are 1-48. For offices equipped with CM2, valid entries are 1-192.

AC-JACK 2 OE must be assigned to Service Group for TEN type trunks defined on the TRUNK form..

SCREEN 1 OF 2

5ESS Switch

tlws

OFFICE DATA ADMINISTRATION

(5511)

TRUNK AND LINE WORK STATION

```

* 1. WORK STATION NUMBER      02
  2. DEVICE ID                 z
  3. REMARKS                    _____
  4. LOCAL TALK & MONITOR TN    _____
  5. REMOTE TALK & MONITOR TN   18159761234
  6. REMOTE TALK & MONITOR LTP  002010
  7. TEST ACCESS UNIT EQUIPPED? N
  8. CARRIER ID               0732
  9. DC-JACK 1 LOGICAL TEST PORT _____
 10. DC-JACK 1 METALLIC TEST BUS _____
 11. DC-JACK 1 CUT-THRU DIST. PT. _____
 12. DC-JACK 1 DIODE DIST. PT.  _____

```

SCREEN 2 OF 2

5ESS Switch

tlws

OFFICE DATA ADMINISTRATION

(5511)

TRUNK AND LINE WORK STATION

13. DC-JACK 2 LOGICAL TEST PORT _____
 14. DC-JACK 2 METALLIC TEST BUS _____
 15. DC-JACK 2 CUT-THRU DIST. PT. _____
 16. DC-JACK 2 DIODE DIST. PT. _____

AC-JACK TRUNK DATA

17. AC-JACK 1 TEN _____
 18. AC-JACK 2 TEN _____

Figure 1 SAMPLE TLWS FORM 5E11 AND EARLIER SOFTWARE RELEASES

tlws 5ESS Switch
 SCREEN 1 OF 2 OFFICE DATA ADMINISTRATION
 (5511) TRUNK AND LINE WORK STATION

*1. WORK STATION NUMBER _____
 2. DEVICE ID _____
 3. REMARKS _____
 4. LOCAL TALK & MONITOR TN _____
 5. REMOTE TALK & MONITOR TN _____
 6. REMOTE TALK & MONITOR LTP _____
 7. TEST ACCESS UNIT EQUIPPED? N
 8. CARRIER ID _____
 9. DC-JACK 1 LOGICAL TEST PORT _____
 10. DC-JACK 1 METALLIC TEST BUS _____
 11. DC-JACK 1 CUT-THRU DIST. PT. _____
 12. DC-JACK 1 DIODE DIST. PT. _____

tlws 5ESS Switch
 SCREEN 2 OF 2 OFFICE DATA ADMINISTRATION
 (5511) TRUNK AND LINE WORK STATION

13. DC-JACK 2 LOGICAL TEST PORT _____
 14. DC-JACK 2 METALLIC TEST BUS _____
 15. DC-JACK 2 CUT-THRU DIST. PT. _____
 16. DC-JACK 2 DIODE DIST. PT. _____

AC-JACK TRUNK DATA

17. AC-JACK 1 TEN _____
 18. AC-JACK 2 TEN _____

Figure 2 SAMPLE TLWS FORM 5E12 THROUGH 5E14 SOFTWARE RELEASES

tlws 5ESS Switch
 SCREEN 1 OF 2 OFFICE DATA ADMINISTRATION
 (5511) TRUNK AND LINE WORK STATION

*1. WORK STATION NUMBER _____
2. DEVICE ID _____
3. REMARKS _____
4. LOCAL TALK & MONITOR TN _____
5. REMOTE TALK & MONITOR TN _____
6. REMOTE TALK & MONITOR LTP _____
7. TEST ACCESS UNIT EQUIPPED? N
8. CARRIER ID _____
9. DC-JACK 1 LOGICAL TEST PORT _____
10. DC-JACK 1 METALLIC TEST BUS _____
11. DC-JACK 1 CUT-THRU DIST. PT. _____
12. DC-JACK 1 DIODE DIST. PT. _____

tlws 5ESS Switch _____
SCREEN 2 OF 2 OFFICE DATA ADMINISTRATION
(5511) TRUNK AND LINE WORK STATION

13. DC-JACK 2 LOGICAL TEST PORT _____
14. DC-JACK 2 METALLIC TEST BUS _____
15. DC-JACK 2 CUT-THRU DIST. PT. _____
16. DC-JACK 2 DIODE DIST. PT. _____

AC-JACK TRUNK DATA
17. AC-JACK 1 OE _____
18. AC-JACK 2 OE _____

Figure 3 SAMPLE TLWS FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5L: 5512 RECORD REMOTE OFFICE TEST LINE FORM - ROTL

1. GENERAL

The 5512 Record is available with 5E2 and later Software Releases. The ROTL (Remote Office Test Line) interfaces with existing CAROT (Centralized Automatic Reporting On Trunks) systems through the DDD Network. This form is used to store the security call-back telephone numbers of all CAROTS that can access the 5ESS Switch trunks (outgoing and 2-way) in this office, and also defines the maintenance mode of the CAROT.

The ROTL feature allows interoffice trunk testing to be performed automatically from a CAROT System, a computerized system that automatically accesses and tests trunks. The ROTL answers calls from the CAROT, receiving information in the form of Multi-Frequency digits, and causes trunks to be accessed and attached to the responder for transmission measurement.

Access to ROTL is made via a number defined on the LINE form (5109 -1/2/3 Record) with TEST CODE equal to "ROTL", and the RTI field defined. Refer to Division 2, Section 2 for the full description of the ROTL Logical Test Ports.

The key field is the CAROT Identification code.

The other entries — security call-back telephone number and maintenance test mode — define the actual security call-back number and associated maintenance test mode.

1.1 Recent Change View

The corresponding Recent Change View for this form is 14.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CAROT ID CODE

Description: Enter the CAROT identification code sent to the 5ESS Switch ROTL software, which will be used for security callback.

Valid Entries: 0 - 9

2.3 SECURITY CALL-BACK TN

Description: Enter the telephone number used by the ROTL to call back the CAROT.

Valid Entries: Any 7 or 10 digit Telephone Number,

- plus an optional 1 prefix digit
- For 5E7 and earlier: 200 - 919 middle digit 0 - 1
- For 5E8 and later: 200 - 999

Data Rules:

If MAINTENANCE TEST MODE is "MAN" or "AUTO", this field is required.

2.4 MAINTENANCE TEST MODE

Description: Enter the mode of maintenance authority for ROTL testing.

Required Field.

Valid MAINTENANCE TEST MODE Entries	
Entry	Definition
AUTO	Automatic. Any CAROT center can automatically remove trunks from service if they fail specific tests. The AML (Automatic Maintenance Limit) cannot be exceeded. The AML is established by the owner of the 5ESS Switch and states the number of trunks that can be removed from service.
MAN	Manual. A manual control location gives the customer authority to remove some or all trunks from service, allowing the AML to be exceeded. Exceeding the AML is not allowed with the AUTO mode.
NONE	Inhibits any and all callers from a given CAROT ID from changing the trunk status of any tested trunks.

2.5 CARRIER ID

Description: Enter a Carrier Identification Code, if required, for the Security Call-Back Telephone Number.

If the digit interpreter tables referenced by the LTP DAS entry on the OFCOPT form (5509 Record) define that Telephone Number as an InterLATA call, then a Carrier ID is required to route the call back to the Security Call-Back TN.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Any CARRIER ID entered must be defined on an ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must equal "D".

```

rotl          5ESS Switch          —
5512          OFFICE DATA ADMINISTRATION
              REMOTE OFFICE TEST LINE

```

```

* 1. CAROT ID CODE          3
  2. SECURITY CALL-BACK TN   13127279912
  3. MAINTENANCE TEST MODE  NONE
  4. CARRIER ID            288

```

Figure 1 SAMPLE ROTL FORM 5E2 - 5E8 SOFTWARE RELEASES

```

rotl          5ESS Switch          —
5512          OFFICE DATA ADMINISTRATION
              REMOTE OFFICE TEST LINE

```

* 1. CAROT ID CODE	3
2. SECURITY CALL-BACK TN	13127279912
3. MAINTENANCE TEST MODE	NONE
4. CARRIER ID	0288

Figure 2 SAMPLE ROTL FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 5M: 5513 RECORD CUTOVER BY THOUSANDS GROUP - COTH

1. GENERAL

The 5513 Record is available with 5E2 and later Software Releases and is used to define the Cutover By Thousands Group. It is part of the gradual cutover capability associated with the IMINFO form (5510 Record).

Data presented on this record will enable the customer personnel to cut over telephone lines from an existing office to a 5ESS Switch office based on the Office Code and Thousands Group of the Telephone Numbers.

Since the 5513 Record is for support of the 5510 Record, the 5513 Record use is optional. In the absence of the 5513 Record, the default condition will be the Flash Cut or Interface Module Cut as indicated by the 5510 Record. Thus, any Telephone Numbers not specifically covered by the 5513 Record will take on the pre-cutover or post-cutover status as defined on the 5510 Record. From that viewpoint, the 5513 Record can be looked upon as an exception list.

For 5E12 and later, COTH forms cannot be entered for lines in existing thousands groups in the office.

1.1 Multi-party Groups

Two, four, and eight party lines share the same Line Equipment Number. Cutover By Thousands Group works from the Telephone Number. Therefore, when any member of a multi-party group is cut over into active service in the 5ESS Switch office, all members of the multi-party group will be cutover. This will be true even if one or more of the Telephone Numbers of the multi-party group is in a Thousands Group which is not marked for cutover at that time.

1.2 Multi-Line Hunt Groups

When any member of a Multi-Line Hunt Group is cutover to a 5ESS Switch office, all members of the Multi-Line Hunt Group without individual TNs are cutover at the same time. The group is cutover according to the thousands group of the MLHG TN. Members of the group that have individual TNs are cutover according to the thousands group of their individual TN.

1.3 DSL Lines

For 5E5 and later, DSLs are cutover as follows. Multipoint DSLs are cutover as a single entity according to the thousands group specified by the "cut digits" of the DSL form (5907 Record). Point-to-Point DSLs are cutover according to the "cut digits" of the DSL form.

The AP (Application Processor) Data Links DSL lines are always cutover in an "in-service" state.

1.4 Recent Change View

The corresponding Recent Change view for this form is 11.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each Record.

2.2 *NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later

Valid Entries: 200 - 999

Data Rules:

For 5E12 and later, when the OFFICE CODES and/or NPA/OFFICE CODE combinations are assigned on COTH forms, they must be defined on the NOC form.

2.3 * OFFICE CODE

Description: Enter the three-digit NXX of the office for which the Thousands Group is to be cutover to the 5ESS Switch.

Required Field.

Valid Entries: 3 digits

Data Rules:

For 5E12 and later, if the COTH forms have an OFFICE CODE defined and there are multiple NOC forms with the same value of OFFICE CODE, NPA will also have to be defined on the COTH form.

2.4 * THOUS DIGIT

Description: Enter the Thousands Digit of the Telephone Numbers in the Office Code that is to be cut over to the 5ESS Switch.

Required Field.

Valid Entries: 0 - 9

2.5 PRECUT STATUS

Description: The recommended entry for Pre-Cut-Over Status is "INACTIVE".

Valid PRECUT STATUS Entries	
Entry	Definition
ACTIVE	Lines are active when the office is in a precut state.
INACTIVE	Lines are inactive when the office is in a precut state.

Data Rules:

Existing TNs cannot be defined for an SM with an "INACTIVE" PRECUT STATUS.

For 5E12 and later, COTH forms that have a PRECUT STATUS of "INACTIVE", must have the CUTOVER field on the OFCOPT form set to "Y".

2.6 POSTCUT STATUS

Description: The recommended entry for POSTCUT STATUS is "INACTIVE". Other uses are to be made of this field in the future.

Valid POSTCUT STATUS Entries	
Entry	Definition
ACTIVE	Lines are active when the office is in a postcut state.
INACTIVE	Lines are inactive when the office is in a postcut state.

2.7 ALT CUTOVER RTI

Description: Enter a Route Index when the PRECUT STATUS is "INACTIVE". The route index is used to route calls attempting to terminate to an inactive line. It may be associated with reorder tone, a recorded announcement, or an outgoing Trunk Group to the existing office in which the Telephone Number is active.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

```

coth                                5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5513)                            CUTOVER BY 1000s GROUP

(*) 1. NPA      ____
   *2. OFFICE CODE ____
   *3. THOUS DIGIT _

      4. PRECUT STATUS    INACTIVE
      5. POSTCUT STATUS   INACTIVE
      #6. ALT CUTOVER RTI  ____

```

Figure 1 SAMPLE COTH FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5N: 5514 RECORD CARRIER GROUP ALARM SCAN POINT DEFINITION FORM - CGASP

1. GENERAL

The 5514 Record is available with 5E2 and later Software Releases and is used to define Scan Points assigned to Carrier Group Alarms.

The 5514 Record is used to associate the Scan Point Number with the type of carrier facility and the action to be taken on its associated trunks or lines if that system fails.

If the carrier system terminates directly on the 5ESS Switch, do not assign a Carrier Group Alarm Scan Point. Digital Trunks, specified as DENs (Digital Equipment Numbers) and Subscriber Loop Carrier lines, specified as Integrated SLENs (Subscriber Loop Carrier-96 Equipment Numbers) on these systems will be cared for by the 5ESS Switch software.

A Scan Point defined on the 5514 Record is then assigned to the carrier's trunks or lines. For trunks, enter the Carrier Group Alarm Scan Point Number on a TRUNK form (5204 Record). For lines, enter the Carrier Group Alarm Scan Point Number on a LINE form (5109 Record) for individual lines or on an MLHLN form (5111 Record) for Multi-Line Hunt Group lines.

A scan point must be unique within the 5ESS Switch. Scan points appearing in any of the following fields must be assigned on a CGASP form.

FIELD	FORM	RECORD
CARRIER GRP ALM	LINE	5109
CARRIER GRP ALM	MLHLN	5111
CGASPN	TRUNK	5204

The scan point values may be duplicated among the three aforementioned forms.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.10.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * CGA SCAN POINT

Description: Enter the scan point number assigned to the CGA. The scan point is a 9-digit number that must be in the following format.

Refer to Division 8, Section 1 for procedures to obtain the SPN assignments.

Required Field.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 48

			(CM1)
			1 - 192
			(CM2)
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0 - 1
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00-30

Data Rules:

The first four components (SM, MSU, SVG and BRD) must be defined on an EQMSP form (5750 Record) with the TYPE set to "SCAN".

The first four components (SM, MSU, SVG and BRD) must be defined on an EQMMSP form (5750 Record) with the TYPE set to "SCAN".

2.3 ACTION

Description: This field defines the Action to be taken by the 5ESS Switch during a failure on a Carrier Group.

Required Field.

Default: REP

Valid Entries:

Valid ACTION Entries	
Entry	Definition
IGN	Ignore. No action of any type is to be taken if the carrier fails.
REP	Report when the Carrier fails. A message will be printed at the Master Control Center when the Carrier fails. This treatment would be the most satisfactory for lines.
CON	Condition when the Carrier fails. When "CON" is entered, the associated line or trunk will be taken out of service when the Carrier fails. Normally this option would be selected for trunks only.

2.4 FACILITY TYPE

Description: Enter the Type of Facility assigned to the CGA.

Valid FACILITY TYPE Entries	
Entry	Definition
ANCB	Analog Channel Bank
DTCB	Digital Channel Bank
PG	Pair Gain
SLC	Subscriber Loop Carrier - nonintegrated

```

cgasp                               5ESS Switch           —
(5514)                             OFFICE DATA ADMINISTRATION
                                   CGA SCAN POINT DEFINITION

```

-
- *1. CGA SCAN POINT 008112024
 - 2. ACTION REP
 - 3. FACILITY TYPE ANCB
-

Figure 1 SAMPLE CGASP FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 50: 5515 RECORD ROUTINE EXERCISE SCHEDULE FORM - RXSCHD

1. GENERAL

The 5515 Record is available with 5E2 and later Software Releases. It is used to supply the time for the Routine Exercise Schedule for the Administrative Module and Switching Module tests. The recommended schedules are provided in the following documents: 235-105-210 and 235-105-110.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.3.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 ENTITY

Description: Entity identifies the type of unit for which the schedule is being established. The CM (Communication Module) and each operational Switching Module requires an entry in this field.

An entry of a zero indicates that the schedule being established will be applicable for the Communication Module. When the schedule being established is applicable to a Switching Module, the Switching Module Number (1 - 192) must be entered here. For offices equipped with CM2 (Communication Module 2) or CM3, valid entries for SM are 1 - 192.

Valid Entries: 0 - 192

Data Rules:

If ENTITY is 1 - 192, then START TIME and DURATION must be entered for all three types of testing.

Each entry for a Switching Module (1 - 192) must be defined in the SM field of an EQIM form (5700-1 Record) with the corresponding EQSTATUS set to "O" (Operational).

DIAGNOSTICS

Entries made in the Diagnostics column will provide for the DGN (Diagnostic) tests. Diagnostic test schedule data must be provided for the Administrative Module. There are two test types available for scheduling in the Administrative Module, full ("F") and partial ("P") diagnostic tests. For reliability reasons, full diagnostics for the Administrative Module should be scheduled only about once a week and partial diagnostics should be scheduled for the remaining six days of the week.

Only the full diagnostics test is available for Switching Modules; it should be scheduled once per week.

Testing should be scheduled for light traffic hours, i.e. during early morning hours, and should be limited to a maximum of six hours.

ELS

Entries made in the ELS (Electronic Loop Segregation) column will provide for the Electronic Loop

Segregation tests which analyze customer lines for their electrical characteristics. Electronic Loop Segregation tests periodically test the loaded/non-loaded characteristics of lines, and update the database accordingly. The ELS tests take approximately one hour for each Line Unit. The point at which the test stops will be the point at which it will start testing at its next scheduled time. Electronic Loop Segregation test schedule data cannot be provided for the Administrative Module.

Each SM (Switching Module) executing ELS tests requires the use of a TTF (Transmission Test Facility) responder so the total number of SMs executing ELS at any one time should not exceed the number of TTF responders equipped in the office. For example, if an office with 5 SMs has 3 TTF responders, only 3 SMs should perform ELS tests at the same time.

FABRIC

Description: Entries made in the Fabric column will provide for the Fabric tests. Fabric tests Line Unit Grid Circuits. The Fabric tests take approximately two hours for each Line Unit. The point at which the test stops will be the point at which it will start testing at its next scheduled time. Fabric test schedule data cannot be provided for the Administrative Module.

2.3 START TIME

Description: Enter the Start Time for the test being scheduled. The entry must be in the format of HH:MM where HH is the hour, and MM is the minute. All five characters, including the colon, must be entered.

Valid Entries: HH:MM, where

HH is 00 - 23

MM is 00 - 59

2.4 DURATION

Description: Enter the number of hours for which the tests may continue. Although zero is a valid entry, if it is entered, the test will never begin because, although the test is scheduled, no time is allocated for it.

Valid Entries: 0 - 12

Data Rules:

If an entry is made in one of the DURATION fields, then the corresponding START TIME field must have an entry. If a DURATION field is not entered, then all other corresponding fields must not be entered.

2.5 VERBOSE

Description: Should completion messages be printed at the end of Diagnostics, ELS, and Fabric Tests?

Default: N

Valid Entries: Y, N

2.6 SUNDAY THROUGH SATURDAY

Description: Enter the extent to which the test is to be run.

Valid SUNDAY THROUGH SATURDAY Entries	
Entry	Definition
F	Full set of tests
N	(Or if the field is left blank) no tests are to be performed.
P	Partial Diagnostic test on the Administrative Module.

Data Rules:

When ENTITY is 0, indicating an Administrative Module schedule, a "P" may be entered in the Diagnostic column.

An entry of "P" is not allowed in the ELS (Electronic Loop Segregation) or Fabric columns under any circumstances, or the Diagnostic column when ENTITY is 1 - 192, indicating Switching Module.

```

rxschd                5ESS Switch      —
5515                  OFFICE DATA ADMINISTRATION
                      ROUTINE EXERCISE SCHEDULE

* 1. ENTITY 005

                > 2. DIAGNOSTICS      > 13. ELS                > 24. FABRIC

START TIME       3. 23:00                14. 04:10                25. 02:05
DURATION         4. 03                   15. 01                   26. 02
VERBOSE         5. Y                     16. Y                     27. Y
SUNDAY          6. F                     17. N                     28. F
MONDAY          7. N                     18. F                     29. N
TUESDAY         8. N                     19. F                     30. F
WEDNESDAY       9. N                     20. F                     31. N
THURSDAY       10. N                    21. F                     32. F
FRIDAY         11. N                    22. F                     33. N
SATURDAY       12. N                    23. F                     34. F

```

Figure 1 SAMPLE RXSCHD FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5P: 5516 RECORD REMOTE ALARM ASSIGNMENT RECORD - RALM

1. GENERAL

The 5516 Record is used to define Remote Alarm Scan and Distribute Point Number Assignments.

This record is intended to be used as an Office Record for those 5ESS Switches that do not utilize the default assignments for Remote Alarms. See Figure 1 for the default assignments.

The Remote Alarm Process applies to an RSM (Remote Switching Module), ORM (Optically Remote Module), or TRM (Two-Mile Optically Remote Module).

Remote Alarm Scan and Distribute Point Assignments are "mirror image"; for each Scan or Distribute Point entered in Service Group 0, a corresponding point will be automatically assigned in Service Group 1 with the same SM, MSU, BRD and SPN. The Remote Alarm Scan and Distribute Points for both Service Groups 0 and 1 will appear on the following records (other than the 5516 Record):

- 5840 and 5840A for Scan Points
- 5841 and 5841A for Distribute Points

The Remote Alarm Process has two Scan Boards, and one Distribute board duplicated on each of the two Service Groups of a Metallic Service Unit in each Remote Module. The boards are identified on an EQMSU form (5750 Record).

The Remote Alarm Process consists of two options, the Alarm Input Option and the Alarm Output Option. Any existing RSM is equipped with the hardware necessary for both options. Only the designated MASTER MODULE of a REMOTE SITE can be assigned these options on an EQSITE form.

The Input Option provides for building and power alarm sources to be wired as alarm inputs to this capability. Hardware for the Input Option consists of eighteen power alarm sources and two standard building alarms. Also included are thirty scan points that may be assigned on an office basis to additional building alarm sources. The Input Option utilizes unused scan points that may exist on MSU Scan circuit packs. If existing unused scan points are unavailable, additional circuit packs must be purchased.

The Output Option provides the audibles for all alarms and for the Alarm and Status Panel at the remote site. The Output Option utilizes unused points that may exist on TN220B MMSU Scan and TN221 MMSU Distribute circuit packs. If existing unused scan or distribute points are unavailable, additional packs must be purchased. Hardware for the Output Option consists of the following:

- Alarm and Status Circuit Pack or RAU Circuit Pack.
- Alarm and Status Display Panel.
- Audible Alarm Unit.
- Five MMSU Scan Points per service group.
- Fifteen MMSU Distribute Points per service group.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number, and the Office Number on each record.

2.2 * REMOTE MODULE

Description: Enter the Switching Module number of the Remote Module being served.

For offices equipped with CM1 (Communications Module 1), valid entries for SM are 1 - 48. For offices equipped with CM2, valid entries are 1 - 192.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM entered must be defined as the MASTER MODULE on an EQSITE form.

For 5E10 and later, if the SM entered is a WCTX (Wireless Centrex) application (as defined by PRODUCT on the OFCOPT form (5509 Record) set to "WNC"), the SM entered must have a matching SM value on the EQIM form (5700 Record).

2.3 * ALARM POINT

Description: Enter the Remote Alarm Scan Point. The Alarm Point number is the number used to identify the point in messages to maintenance personnel and to the Recent Change process.

The Alarm Input Option corresponds to Alarm Points 0 - 54. The Alarm Output Option corresponds to Alarm Points and 100 - 108 for 5A RSMs and Alarm Points and 100 - 113 for Multi-Module RSMs, ORMs or TRMs. See Figure 1 for Remote Alarm Point Default values.

Required Field.

Valid Entries:

For 5E9(1) and earlier: 0 - 54 and 100 - 113

For 5E9(2) and later:

VCDX office: 0, 1, 4 - 54 and 100 - 113

Non-VCDX office: 0 - 54 and 100 - 113

Data Rules:

For WCTX applications (i.e., PRODUCT on the OFCOPT form set to "WNC"):

- if a Remote Alarm Point 0 - 54 is assigned, the WCTXOPT form must have the INPUT OPTION entry set to "Y".
- if any Remote Alarm Point 100 - 113 is assigned, the WCTXOPT form must have the INPUT OPTION entry set to "Y" and the ALARM DURATION entered.

2.4 SCAN POINT NO

Description: Enter the Scan Point Number assigned to this Remote Alarm Point. This entry is required for

Alarm Points 0 - 54 only; leave blank for all others.

The Scan Point is a 9-digit number in the following format.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Scan Point Number	SPN	XX	00 - 30

NOTE: Only Service Group 0 should be entered. A corresponding Scan Point will be automatically assigned for Service Group 1 with the same SM, MSU, BRD and SPN.

Data Rules:

Scan Point Number 31 is used for a current sensing point and cannot be assigned in this field.

The SM entered in this field must be the same as the SM entered in the REMOTE MODULE field. The Scan Point must be defined on an EQMSP (5750 Record) or EQMMSP (5750 Record) form with "SCAN" entered in the TYPE field.

2.5 DIST POINT NO

Description: Enter the Distribute Point Number assigned to this Remote Alarm Point. This entry is required for Alarm Points 100 - 113 only; leave blank for all others.

The Distribute Point is a 9-digit number in the following format.

DISTRIBUTE POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU		0 - 1
Service Group	SVG	X	0
Board	BRD	XX	00 - 15
			(Regular MSU)
			00 - 31
			(Modular MSU)
Distribute Point Number	DPN	XX	00 - 31

NOTE: Only Service Group 0 should be entered. A corresponding Distribute Point will be automatically assigned for Service Group 1 with the same SM, MSU, BRD and DPN.

Data Rules:

The SM entered in this field must be the same as the SM entered in the REMOTE MODULE field. The Distribute Point must be defined on the EQMSP or EQMMSP form with "DIST" entered in the TYPE field.

2.6 IN USE?

Description: Is this Scan Point operational? Enter an "N" if this Scan Point is not operational.

Required Field.

Valid Entries: Y, N

2.7 MCC NAME

Description: Enter the name of the alarm as it should appear on the MCC (Master Control Center).

Leave this field blank if the Alarm Point is 0, 1 or greater than 31.

Valid Entries: 9 characters

2.8 TTY NAME

Description: Enter the name of the alarm as it should appear on the TTY. This is the name that will be presented to the maintenance personnel on their teletype unit.

Valid Entries: 20 characters

2.9 NORMAL STATE

Description: Enter the Normal (unalarmed) State for this Scan Point.

Required Field.

Valid Entries: OPEN and CLOSED

2.10 ALARM LEVEL

Description: Enter the Alarm Level to be indicated to the maintenance personnel when the Scan Point state is different than that shown for the Normal State.

Valid ALARM LEVEL Entries	
Entry	Definition
CRIT	Critical.
MAJ	Major.
MIN	Minor.
ACT	Action.
INFO	Information.

ALARM POINT	IN USE?	TELETYPE NAME	NORMAL STATE	ALARM LEVEL
0	Y	FIRE	OPEN	CRIT
1	Y	FIRE ALARM TROUBLE	OPEN	MAJ
2	Y	ESM (VCDX office only)	OPEN	CRIT
3	Y	ESM POWER (VCDX office only)	OPEN	MAJ
4 - 31	N			
32	Y	DISCHARGE FUSE FAIL	OPEN	MAJ
33	Y	INVERTER FAILURE	OPEN	MAJ
34		MISC POWER FAILURE-A	OPEN	
35		MISC POWER FAILURE-B	OPEN	
36		MISC POWER FAILURE-C	OPEN	
37	Y	RECTIFIER FAILURE	OPEN	MAJ
38	Y	ALM BATTERY FAILURE	OPEN	MAJ
39	Y	CO BATTERY DISCHARGE	OPEN	MAJ
40	Y	HIGH VOLTAGE	OPEN	MAJ
41	Y	COMM POWER FAILURE	OPEN	MAJ
42	Y	STBY PLANT LOW FUEL	OPEN	MIN
43	Y	STBY PLANT OPERATING	OPEN	MAJ
44	Y	STBY PLANT RECT FAIL	OPEN	MIN
45	Y	STBY PLANT FAILURE	OPEN	MAJ
46	Y	MISC CAB FUSE ALM-0	OPEN	MAJ
47	Y	MISC CAB FUSE ALM-1	OPEN	MAJ
48	Y	FUSE FAILURE PDF-0	OPEN	MAJ

49	Y	FUSE FAILURE PDF-1	OPEN	MAJ
50	Y	ASC/RAU ALARM ACTIVE	OPEN	INFO
51	Y	ASC/RAU ALM TEST SW	OPEN	INFO
52	Y	ASC/RAU POWER FAIL	CLOSED	INFO
53	Y	ASC/RAU ALM RET SW	OPEN	INFO
54	Y	ASC ALM MAN MODE SW	OPEN	INFO
100	Y	ASC CTR / RAU SANITY	OPEN	INFO
101	Y	ASC SMTBL / RAU EON	OPEN	INFO
102	Y	ASC/RAU BLDG/PWR	OPEN	INFO
103	Y	ASC/RAU TEST IN PROG	OPEN	INFO
104	Y	ASC/RAU CRIT LAMP	OPEN	INFO
105	Y	ASC/RAU STD ALN LAMP	OPEN	INFO
106	Y	ASC/RAU MAJOR LAMP	OPEN	INFO
107	Y	ASC/RAU MINOR LAMP	OPEN	INFO
108	Y	ASC OSMAB / RAU ATST	OPEN	INFO
109	Y	ASC MANUAL MODE LAMP	OPEN	INFO
110	Y	ASC CRITICAL AUDIBLE	OPEN	INFO
111	Y	ASC MAJOR AUDIBLE	OPEN	INFO
112	Y	ASC MINOR AUDIBLE	OPEN	INFO
113	Y	ASC CYCLE TIMER INH	OPEN	INFO

Note 1: Valid only for RSMs equipped with the Alarm and Status Circuit, see EQRAU form (5705 Record). Note 2: These default values cannot be changed.

Figure 1 REMOTE ALARM SCAN AND DISTRIBUTE POINT DEFAULT VALUES

```

ralm                      5ESS Switch          —
5516                     OFFICE DATA ADMINISTRATION
                           REMOTE ALARM ASSIGNMENT

* 1. REMOTE MODULE      088
* 2. ALARM POINT        110

3. SCAN POINT NO      _____
4. DIST. POINT NO     088000000
5. IN USE?             Y
6. MCC NAME            _____
7. TTY NAME            ASC CRITICAL AUDIBLE
8. NORMAL STATE        OPEN
9. ALARM LEVEL         INFO

```

Figure 2 SAMPLE RALM FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5Q: 5517 RECORD RSM LINK ASSIGNMENT FORM - RSMLNK

1. GENERAL

The 5517 Record is used to define the assignment of the Umbilical Links between the Host Switching Module (i.e., the HOST field) and the Remote Switching Module (i.e., the RSM field).

The DFI-R (RSM Digital Facility Interface) is used in the DLTU (Digital Line Trunk Unit) to provide the interface between the Host Switching Module and the Remote Switching Module.

Effective with 5E10 and later, a single Host SM-2000 can host between 1 and 30 RSMs as opposed to the previous limit of 5 RSMs per Host SM. This enhancement pertains to the operation of an SM-2000 as a host to RSMs, not to operating an SM-2000 as an RSM itself.

Effective as a 5E13 and later Software Update, this feature provides the capability to support a non-SM-2000 RSM via a DNU-S on a Host SM-2000. The following updates were made to implement this feature:

1. a UNIT TYPE field was added to define either a DLTU or a DNU-S,
2. three new fields were added: STS, VTG, and VTM (consistent with the 5E13 DNU-S VT Group Number feature (99-5E-4424) which introduced a new VT facility DS1 numbering scheme for DNU-S provisioning (see Division 2, Section 9Q)),
3. three fields were modified: DNUS, DG, and STE were appended to the FAR END fields.

For more information on the RSM feature, see the RSM on DNU-S feature (99-5E-4209), Division 2, Section 9S.

1.1 Intra-Cluster Links

The RSMLNK form is also used to define the ICLs (Intra-Cluster Links) between the RSMs within an RSM site. RSMLNK forms are required for both Single Module and Multi-Module RSMs. For more information on RSM sites, see the EQSITE form, Division 8, Section 15..

1.2 Recent Change View

The corresponding Recent Change Views for this form are 18.5 and 18.9.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * RSM

Description: Enter the Switching Module number of the RSM (Remote Switching Module).

Required Field.

Valid Entries: 1 - 192

Data Rules:

This SM must have an SM USAGE of "RSM" on the EQIM form (5700 Record).

2.3 # RSM SITE

Description: Enter the RSM SITE number. All Switching Modules in the same RSM SITE must have the same RSM SITE value.

Required Field.

Valid Entries: 1 - 174

Data Rules:

The RSM SITE value assigned here must be defined on an EQSITE form (5722 Record).

2.4 # HOST

Description: Enter the Switching Module number of the HIM (Host Switching Module).

Required Field.

Valid Entries: 1 -192

Data Rules:

For offices equipped with a CM1 (Communications Module 1) only 1 - 48 can be entered for the SM. For offices equipped with a CM2, 1 - 192 can be entered for the SM.

This SM must have an SM USAGE of "HIM" on the EQIM form.

This value must not equal the value in the RSM field or any FAR END SM.

In a Multi-Module RSM, it is not required that all Switching Modules at the RSM SITE have the same HOST.

For 5E10 and later, if this HOST SM is defined as an SM2000 (UNIT TYPE is "SM2000" on the EQIM form), the FAR END DFIs on this RSMLNK form that carry the first two CTS to the same FAR END DLTU2 must not be on the same DLTU2 fuse group on HOST SM. The first two CTS are on the NEAR END DLTU2 0, NEAR END DFI 1, FAC 0 and NEAR END DFI 2, FAC 0. Note that Far END DFIs on the RSMLNK forms are assigned to fuse groups on the DLTU2 as follows:

Fuse Groups	FAR END DFI Number
A	1, 5, 9
B	2, 6, 10
C	4, 8
D	3, 7

LINKS:

This section is used to define up to 20 umbilical links between the RSM and the HIM. The RSM can be remoted from the host office using 2 to 20 umbilical links. A minimum of two T1 umbilical links are required to the Host Switching Module.

The LINKS section is used to define RSM Umbilical Links and ICLs (Intra-Cluster Links) for Multi-Module RSMs.

The following fields (Section 2.5 - Section 2.16) define the LINKS.

For each link the remote DLTU (Digital Line Trunk Unit), DFI (Digital Facility Interface), and the Host DLTU and DFI must be assigned.

In 5E5 and later Software Releases, the Remote and Host facility must also be assigned.

Data Rules:

The matching NEAR END and FAR END LINKS must have the same DFI TRANSMISSION MODES specified on EQDUP forms (5730 Record).

The NEAR END assignments must be unique. The FAR END assignments must be unique.

If the LINK SM is not "H", then the matching NEAR END and FAR END LINKS must have their FIU PORTS, on EQDUP forms, in the same range, either 0 - 1 or 2 - 9.

Remote DFIs must have the DFI USAGE field, on the EQDUP form, set to "RDFI" or "CDFI".

Every item associated with a LINK must have an entry.

2.5 NEAR END DLTU

Description: Enter the DLTU on the "near end" of the link, whether or not it is an umbilical to the Host or an ICL to another RSM within the RSM SITE. This is the DLTU on the RSM.

Valid Entries: 0 - 5

Data Rules:

DLTU 0 with DFIs of 1 - 2 cannot be used for ICL links.

2.6 NEAR END DFI

Description: Enter the DFI on the "near end" of the link, whether or not it is an umbilical to the Host or an ICL to another RSM within the RSM SITE. This is the DFI on the RSM.

Valid Entries: 5E12 and earlier: 1 - 16

5E13 and later: 1 - 10

2.7 NEAR END FAC

Description: Indicate the "near end" facility.

Software Release: 5E5 and later

Valid Entries:

Valid NEAR END FAC Entries	
Entry	Definition
0	For a DFI, the DFI can terminate one T1 facility (24 channels) per circuit pack.
	For a DFI-2, the DFI-2 can terminate two T1 facilities (48 channels) per circuit pack. A value of 0 entered in this field indicates that channels 1 - 24 are utilized.
1	For DFI-2, the DFI-2 can terminate two T1 facilities (48 channels) per circuit pack. A value of 1 entered in this field indicates that channels 25 - 48 are utilized.

Data Rules:

If 0 is entered for a DFI, the FAC IND on the EQDUP form must be 0.

If 0 is entered for a DFI-2, the FAC IND on the EQDUP form must be 1 or 3.

If 1 is entered for a DFI-2, the FAC IND on the EQDUP form must be 3.

2.8 UNIT TYPE

Description: Enter the Unit Type.

Software Release: 5E13 and later

Valid Entries: DLTU or DNUS

Data Rules:

When UNIT TYPE is "DLTU",

- DFI/DG must be 1 - 10
- FAC/STE must be 0 - 1
- STS must not be entered
- VTG and VTM must not be entered

When UNIT TYPE is "DNUS",

- DFI/DG must be 0 - 1
- FAC/STE must be 1 - 6
- STS must be 1
- VTG must be 1 - 7
- VTM must be 1 - 4

When UNIT TYPE is "DNUS" and FAR SM is "H", the required host CTS (Control Time Slot) links ROW pairs [1-2 and 3-4] must not have the same DNUS, DG, and STE. Also, the corresponding CTS ROW mates [1-3 and 2-4] must not have the same DNUS, DG, and STE.

2.9 FAR END SM

Description: Enter the "far end" SM number or "H" for host.

Valid FAR END SM Entries	
Entry	Definition
H	The "far end" of the link is the HOST.
1 - 192	The RSM number of the "far end" that is an RSM within the RSM SITE.

Data Rules:

If FAR END SM is "H", CLK REF must be "N".

2.10 FAR END DLTU/DNUS

Description: Enter the DLTU or DNUS used at the "far end" of the umbilical or ICL link. For 5E13 and later, this field name was changed from FAR END DLTU to FAR END DLTU/DNUS to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Valid DLTU/DNUS Entries	
Entry	Definition
5E14 and earlier: 0 - 5	DLTU.
5E15 and later: 0 - 11	
0 - 7	DNU-S.

Data Rules:

For 5E13 and later, for DNU-S, the NEAR END LINKS and matching FAR END DNU-S VT LINKS must have a NEAR END DFI (TRANSMISSION) MODE OF "B8ZS" on the corresponding EQDUP form.

2.11 FAR END DFI/DG

Description: Enter the DFI or DG used at the "far end" of the umbilical or ICL link. For 5E13 and later, this field name was changed from FAR END DFI to FAR END DFI/DG to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Valid Entries: 5E12 and earlier: 1 - 16 (DLTU/DFI)

5E13 and later: 0 - 1 (DNUS/DG)

2.12 FAR END FAC/STE

Description: Indicate the "far end" facility or STE (Signaling Terminal Equipment). For 5E13 and later, this field name was changed from FAR END FAC to FAR END FAC/STE to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Software Release: 5E5 and later: 0 - 1 (FAC)

5E13 and later: 1 - 6 (STE)

Valid Entries:

Valid FAR END FACSTE Entries	
Entry	Definition
0	For a DFI, the DFI can terminate one T1 facility (24 channels) per circuit pack.
1	For a DFI-2, the DFI-2 can terminate two T1 facilities (48 channels) per circuit pack. A value of 1 entered in this field indicates that channels 25 - 48 are utilized.

Data Rules:

If 0 is entered for a DFI, then the FAC IND on the EQDUP form must be 0.

If 0 is entered for a DFI-2 then the FAC IND on the EQDUP form must be 1 or 3.

If 1 is entered for a DFI-2, then FAC IND on the EQDUP form must be 3.

2.13 STS

Description: Enter the STS (Synchronous Transport Signal) for the DNU-S. For 5E13 and later, this field was added to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Software Release: 5E13 and later

Valid Entries: 1

2.14 VTG

Description: Enter the VTG (Virtual Tributary Group) for the DNU-S. For 5E13 and later, this field was added to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Software Release: 5E13 and later

Valid Entries: 1 - 7

2.15 VTM

Description: Enter the VTG (Virtual Tributary Member) for the DNU-S. For 5E13 and later, this field was added to support the RSM on DNU-S feature (99-5E-4209). For more information, see Division 2, Section 9S.

Software Release: 5E13 and later

Valid Entries: 1 - 4

2.16 CLK REF

Description: Is this link used to provide a timing link between RSMs within the RSM SITE? "N" must be entered for an umbilical link (i.e., "H" is entered for FAR END SM.)

Valid Entries: Y, N

Data Rules:

When CLK REF is "Y", the links must be assigned in pairs on a given RSMLNK form. The pair of timing links must not specify the same value of FIU SUBGROUP on the EQDUP forms which define these RSM Cluster DFIs. (Cluster DFI links with a FAC = 0 are associated with the FAC 0 FIU SUBGROUP on the EQDUP form. Cluster DFI links with a FAC = 1 are associated with the FAC 1 FIU SUB GROUP on the EQDUP form.

SCREEN 1 OF 2

rsmlnk

(5517)

5ESS Switch

OFFICE DATA ADMINISTRATION

RSM LINK ASSIGNMENT

*1. RSM _____

#2. RSM SITE _____

#3. HOST _____

		NEAR END			FAR END				CLK
7. LINKS:		DLTU	DFI	FAC	SM	DLTU	DFI	FAC	
row 1		—	—	—	—	—	—	—	—
row 2		—	—	—	—	—	—	—	—
row 3		—	—	—	—	—	—	—	—
row 4		—	—	—	—	—	—	—	—
row 5		—	—	—	—	—	—	—	—
row 6		—	—	—	—	—	—	—	—
row 7		—	—	—	—	—	—	—	—
row 8		—	—	—	—	—	—	—	—
row 9		—	—	—	—	—	—	—	—
row 10		—	—	—	—	—	—	—	—

SCREEN 2 OF 2
rsmlnk
(5517)

5ESS Switch
OFFICE DATA ADMINISTRATION
RSM LINK ASSIGNMENT

		NEAR END			FAR END				
17. LINKS		DLTU	DFI	FAC	SM	DLTU	DFI	FAC	CLK
row 1		—	—	—	—	—	—	—	—
row 2		—	—	—	—	—	—	—	—
row 3		—	—	—	—	—	—	—	—
row 4		—	—	—	—	—	—	—	—
row 5		—	—	—	—	—	—	—	—
row 6		—	—	—	—	—	—	—	—
row 7		—	—	—	—	—	—	—	—
row 8		—	—	—	—	—	—	—	—
row 9		—	—	—	—	—	—	—	—
row 10		—	—	—	—	—	—	—	—

Figure 1 SAMPLE RSMLNK FORM 5E5 - 5E12 SOFTWARE RELEASES

SCREEN 1 OF 2
rsmlnk
(5517)

5ESS Switch
OFFICE DATA ADMINISTRATION
RSM LINK ASSIGNMENT

*1. RSM _____
#2. RSM SITE _____
#3. HOST _____

		NEAR END			FAR END								
7. LINKS:		-----			-----								
		DLTU	DFI	FAC	UNIT TYPE	SM	DLTU/ DNUS	DFI/ DG	FAC/ STE	STS	VTG	VTM	CLK REF
row	1	—	—	—	—	—	—	—	—	—	—	—	—
row	2	—	—	—	—	—	—	—	—	—	—	—	—
row	3	—	—	—	—	—	—	—	—	—	—	—	—
row	4	—	—	—	—	—	—	—	—	—	—	—	—
row	5	—	—	—	—	—	—	—	—	—	—	—	—
row	6	—	—	—	—	—	—	—	—	—	—	—	—
row	7	—	—	—	—	—	—	—	—	—	—	—	—
row	8	—	—	—	—	—	—	—	—	—	—	—	—
row	9	—	—	—	—	—	—	—	—	—	—	—	—
row	10	—	—	—	—	—	—	—	—	—	—	—	—

SCREEN 2 OF 2
rsmlnk
(5517)

5ESS Switch —
OFFICE DATA ADMINISTRATION
RSM LINK ASSIGNMENT

		NEAR END			FAR END								
22. LINKS		-----			-----								
		DLTU	DFI	FAC	UNIT TYPE	SM	DLTU/ DNUS	DFI/ DG	FAC/ STE	STS	VTG	VTM	CLK REF
row 1		—	—	—	—	—	—	—	—	—	—	—	—
row 2		—	—	—	—	—	—	—	—	—	—	—	—
row 3		—	—	—	—	—	—	—	—	—	—	—	—
row 4		—	—	—	—	—	—	—	—	—	—	—	—
row 5		—	—	—	—	—	—	—	—	—	—	—	—
row 6		—	—	—	—	—	—	—	—	—	—	—	—
row 7		—	—	—	—	—	—	—	—	—	—	—	—
row 8		—	—	—	—	—	—	—	—	—	—	—	—
row 9		—	—	—	—	—	—	—	—	—	—	—	—
row 10		—	—	—	—	—	—	—	—	—	—	—	—

Figure 2 SAMPLE RSMLNK FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 5R: 5518 RECORD CENTRAL TRUNK TEST UNIT FORM - CTTU

1. GENERAL

The 5518 Record is used to define the CTTUs (Central Trunk Test Units). CTTU is available with 5E2 and later Software Releases.

The Central Trunk Test Unit is used to test trunks and lines from a remote location, and is similar in function to a Trunk and Line Work Station. However, the CTTU is a common work station designed for use with any ESS. The user of the CTTU runs tests at the remote Central Offices by making selections from menus without having knowledge of the specifics of the different test positions of the various ESS's. In other ESS switches, the CTTU interfaces to an RTTU (Remote Trunk Test Unit) which resides outside the switch at the Central Office. In the 5ESS Switch, the CTTU interfaces directly to the switch, the RTTU function being implemented in software residing in the switch. The 5ESS Switch software interprets requests originated from a CTTU, performs the appropriate line or trunk tests locally and returns the results to the CTTU.

The Central Trunk Test Unit communicates with the 5ESS Switch over a synchronous dial up Data Link operating at 1200 bits per second. The dial up line must be defined as denied origination on the LINE form (5100-1 Record) and is connected to an auto answer 212 dataset. The dataset is connected to an appropriate slot of the 3B IOP (Input/Output Processor).

1.1 CTTU User Classes

Four classes of CTTU users exist. Class A users have unrestricted control over trunk maintenance state and the ability to monitor traffic busy circuits. This work center has PCO (Plant Control Office) responsibility for the circuits involved (i.e., in-service/out-of-service control over them). Class B users can make trunks temporarily unavailable for call processing and monitor the trunk under test during manual access. Class C users have the ability to remove a limited number of trunks from service (up to the automatic maintenance limit). Class C users are mechanized systems operating in an automatic mode to routinely test trunks. Class D users are only allowed to test traffic idle circuits and cannot invoke the talk and monitor feature. Class D users are not allowed to remove trunks from service.

Since Class A, B, and C users can adversely affect system performance, a security protocol is required. This security is provided by entries made with the 5518 Record. The CTTU sends a message to the 5ESS Switch containing a user ID number. The switch then calls back the CTTU on the Security Callback Telephone Number. The switch also establishes a Talk and Monitor circuit, if specified, for Class A and B users. No entries are required or allowed for Class D users.

User number 2 must be defined as a Class A user. All other valid user numbers (2 through 9 and 20 through 49) may be assigned to any security classification A, B, or C. However, it is recommended users 3 and 4 (in addition to user 2) be assigned as Class A, user 5 be assigned as Class C, and all other user numbers be assigned as Class B. If these recommendations are not followed, an appropriate warning message will be issued by ODA. An absolute limit of three Class A users, thirty-four Class B users, and one Class C user exists. If any CTTU user is defined, user number 2 must be defined.

1.2 Recent Change View

The corresponding Recent Change View for this form is 14.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * USER NUMBER

Description: Enter the CTTU user identification number.

Valid Entries: 2 - 9 and 20 - 49

Data Rules:

If USER NUMBER is 2, SECURITY CLASSIFICATION must be "A", and TALK AND MONITOR PHONE TN must exist. For 5E2 through 5E6, if USER NUMBER is 2, 101 ACCESS? must be known.

2.3 SECURITY CLASSIFICATION

Description: Enter the security classification. User number 2 must be Class A. It is recommended users 3 and 4 also be assigned Class A, user 5 be assigned Class C and all other user numbers be assigned Class B.

Required Field.

Valid Entries: A, B, or C

2.4 SECURITY CALLBACK TN

Description: Enter the Security Callback Telephone Number. Any CTTU user defined on this form must have a Security Callback Number.

Required Field.

Valid Entries: Any 7 or 10 digit Telephone Number, plus an optional 1 prefix digit

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 and later: 200 - 999

2.5 TALK & MONITOR PHONE TN

Description: Enter the T&M (Talk and Monitor) Phone Telephone Number. A T&M Phone TN is required for user number 2 and is optional for other Class A and B users. It may be activated by the user at the CTTU through menu commands or by a distant office terminating to the CTTU User Number 2 as a 101 Test Line call. (See Division 2, Section 2 of this guide for translations on Terminating Test Lines.)

Valid Entries: Any 7 or 10 digit Telephone Number, plus an optional 1 prefix digit

For 5E7 and earlier: 200 - 919 middle digit 0 - 1

For 5E8 and later: 200 - 999

2.6 TALK & MONITOR LTP

Description: Enter the Talk and Monitor LTP (Logical Test Port).

The Talk and Monitor LTP is used by the 5ESS Switch software to originate Talk and Monitor phone calls for the CTTU user. These calls are screened and routed as if they had been dialed by a line with the Screening Index and Digit Analysis Selector specified in the LTP SCR (Logical Test Port Screening Index) and LTP DAS (Logical Test Port Digital Analysis Selector) fields of the OFCOPT form (5509 Record).

Valid Entries: A six-digit number consisting of the following:

TALK AND MONITOR LOGICAL TEST POINT			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Logical Test Port	LTP	XXX	000-255

Data Rules:

Each user assigned a Talk and Monitor Phone Telephone Number requires a unique LTP. The LTP may be assigned in any equipped Switching Module, and must be assigned to a member of an outgoing LTP Trunk Group with no HUNT TYPE and a TRKCLS of "LTPCLBCK". The Trunk Group must have IAPT of "Y". These LTP trunks may be members of the same Trunk Group containing the Trunk and Line Work Station's Remote Talk and Monitor LTP. If the user is not assigned a Talk and Monitor phone, this field must be left blank.

2.7 CARRIER ID

Description: Enter a Carrier Identification Code, if required, for the Security Callback Telephone Number or Talk and Monitor Phone TN. If either or both of these numbers are defined as InterLATA calls on the digit interpreter tables, then a Carrier ID is required to route these calls.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

Any Carrier ID entered must be defined on an ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must equal "D".

2.8 101 ACCESS?

Description: Will the Talk and Monitor phone be used to terminate incoming 101 Test Line calls? This field is for User Number 2 only, other user numbers must leave it blank.

Software Release: 5E2 through 5E6

Valid Entries: Y, N

cttu

5ESS Switch
OFFICE DATA ADMINISTRATION
CENTRAL TRUNK TEST UNIT

* 1. USER NUMBER 3
2. SECURITY CLASSIFICATION A
3. SECURITY CALLBACK TN 6689930
4. TALK & MONITOR PHONE TN 6689931
5. TALK & MONITOR LTP 002001
6. CARRIER ID 288

Figure 1 SAMPLE CTTU FORM 5E2 - 5E6 SOFTWARE RELEASES

cttu	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
	CENTRAL TRUNK TEST UNIT	

* 1. USER NUMBER	3
2. SECURITY CLASSIFICATION	A
3. SECURITY CALLBACK TN	6689930
4. TALK & MONITOR PHONE TN	6689931
5. TALK & MONITOR LTP	002001
6. CARRIER ID	0288

Figure 2 SAMPLE CTTU FORM 5E7 - 5E8 SOFTWARE RELEASES

SEC. 5S: 5519 RECORD REMOTE CLOCK REFERENCE FORM - RCLKREF

1. GENERAL

The 5519 Record is available with 5E2 and later Software Releases and is used to describe the exterior references for the Remote Clock equipped in an RSM Site.

1.1 Recent Change View

The corresponding Recent Change View for this form is 20.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * REM SW MODULE

For 5E5 and later, this field is replaced by RSM.

2.3 * RSM

Description: Enter the value of the Remote Switching Module.

Software Release: 5E5 and later

Valid Entries: 1 - 192

Data Rules:

This RSM must be identified as the Master RSM on the appropriate EQSITE form (5722 Record).

2.4 * REFERENCE

Description: Enter the external reference number.

Valid Entries: 1 - 8

2.5 # PRIORITY

Description: Enter the priority of the external reference. The highest stability or most preferred reference should have a priority of one, the next most preferred a priority of two, and so on for all equipped references. These values must be unique for each reference associated with the clock.

Required Field.

Valid Entries: 1 - 8

2.6 EQUIPMENT STATUS

Description: Enter the equipment status.

Required Field.

Default: O

Valid Entries:

Valid EQUIPMENT STATUS Entries	
Entry	Definition
O	Operational
G	Growth
U	Unequipped

Data Rules:

For new offices and units destined for factory testing, the status must be operational ("O"). During offline ODA database retrofits, it may be set to the other values.

2.7 INTERRUPT STATUS

Description: Enter the Interrupt Status.

Required Field.

Default: ALLOW

Valid Entries: ALLOW, INHIBIT

Data Rules:

If EQUIPMENT STATUS is "O", INTERRUPT STATUS must be "ALLOW". If EQUIPMENT STATUS is "U", INTERRUPT STATUS must be "INHIBIT".

2.8 # REFERENCE TYPE

Description: Enter the type of reference used.

Required Field.

Valid REFERENCE TYPE Entries	
Entry	Definition
24CHAN	24 channel T1 trunk
ANALOG	Analog reference

REFERENCE TYPE must be "24CHAN" for remote clock references.

2.9 REFERENCE FORMAT

Description: Enter the reference format used.

For 5E5 through 5E7, if the RCLK references come from a BITS (Building Integrated Timing Supply) clock, REFERENCE FORMAT must be set to "D4WZC".

- **WARNING:** RSM synchronization should be obtained from the HSM-RSM umbilicals. Synchronization from other sources is not recommended. (If synchronization is from another source, the synchronization clock must be traceable to the clock source used by the host switch; and it must meet the LSSGR requirements for stability, reliability, and availability.)

Required Field.

Default: FEWZC

Valid Entries:

Valid REFERENCE FORMAT Entries	
Entry	Definition

D4WOZ	D4 without Zero Code Suppression.
D4B8	D4 with Bipolar 8 Zeros Suppression.
D4WZC	D4 with Zero Code Suppression.
FEWOZ	Extended Framing Format without Zero Code Suppression.
FEB8	Extended Framing Format with Bipolar 8 Zeros Suppression.
FEWZC	Extended Framing Format with Zero Code Suppression.

2.10 EXT REF

Description: Will the RCLK references come from an external source? If this field is "Y", the RCLK references are NOT coming from RSM umbilicals through BRs (Bridging Repeaters), but from another source such as a BITS (Building Integrated Timing Supply) clock. This case is demonstrated in Figure 1 .

If this field is "N", the RCLK references ARE coming from RSM umbilicals through BRs (as implemented prior to the 5E8 Software Release). This case is demonstrated in Figure 2 .

During a retrofit to the 5E8 Software Release, if the REFERENCE FORMAT field is "FEB8" or "FEWZC", the EXT REF field will be set to "N"; otherwise, it will be set to "Y".

Software Release: 5E8 and later

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If EXT REF is "N", all fields under REFERENCE SOURCE and ALTERNATE SOURCE must be entered. If EXT REF is "Y", these fields are optional; but if any of them is entered, all must be entered.

REFERENCE SOURCE

At least two Reference Sources (fields Section 2.11 - Section 2.14) must be defined for each RSM specified, therefore two RCLKREF forms are required. The suggested method of assigning the sources is to use the first Reference Source as the Alternate Source for the second and the second Reference Source as the Alternate Source for the first.

2.11 SM

Description: Enter the number of the Switching Module that has the DLTU (Digital Line and Trunk Unit) that contains the reference.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM entered must be the same as the value entered in the RSM field.

2.12 DLTU

Description: Enter the number of the Digital Line and Trunk Unit containing the pack with the reference.

Required Field.

Valid Entries: 0 - 5

2.13 DFI

Description: Enter the number of the DFI (Digital Facility Interface) pack that contains the reference.

Required Field.

Valid Entries: 1 - 16

2.14 FAC

Description: Indicate the facility used.

Software Release: 5E5 and later

Required Field.

Valid Entries: 0, 1

Data Rules:

For a DFI the entry must be 0; the DFI can terminate one T1 facility (24 channels) per circuit pack.

For a DFI-2 the entry may be 0 or 1. The DFI-2 can terminate two T1 facilities (48 channels) per circuit pack. A value of 0 entered in this field indicates that channels 1 - 24 are utilized. A value of 1 entered in this field indicates that channels 25 - 48 are utilized.

ALTERNATE SOURCE

The fields (Section 2.15 - Section 2.18) define the Alternate Source.

2.15 ALTERNATE SM

Description: Enter the number of the Switching Module that has the DLTU that contains the Alternate Source for this reference.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM entered must be the same as the value entered in the RSM field.

2.16 ALTERNATE DLTU

Description: Enter the number of the Digital Line and Trunk Unit containing the pack with the alternate reference.

Required Field.

Valid Entries: 0 - 5

2.17 ALTERNATE DFIPK

Description: Enter the number of the DFI pack that contains the alternate reference.

Required Field.

Valid Entries: 1 - 16

2.18 ALTERNATE FAC

Description: Indicate the facility used for the alternate reference.

Software Release: 5E5 and later

Required Field.

Valid Entries: 0, 1

Data Rules:

For a DFI the entry must be 0; the DFI can terminate one T1 facility (24 channels) per circuit pack.

For a DFI-2 the entry may be 0 or 1. The DFI-2 can terminate two T1 facilities (48 channels) per circuit pack. A value of 0 entered in this field indicates that channels 1 - 24 are utilized. A value of 1 entered in this field indicates that channels 25 - 48 are utilized.

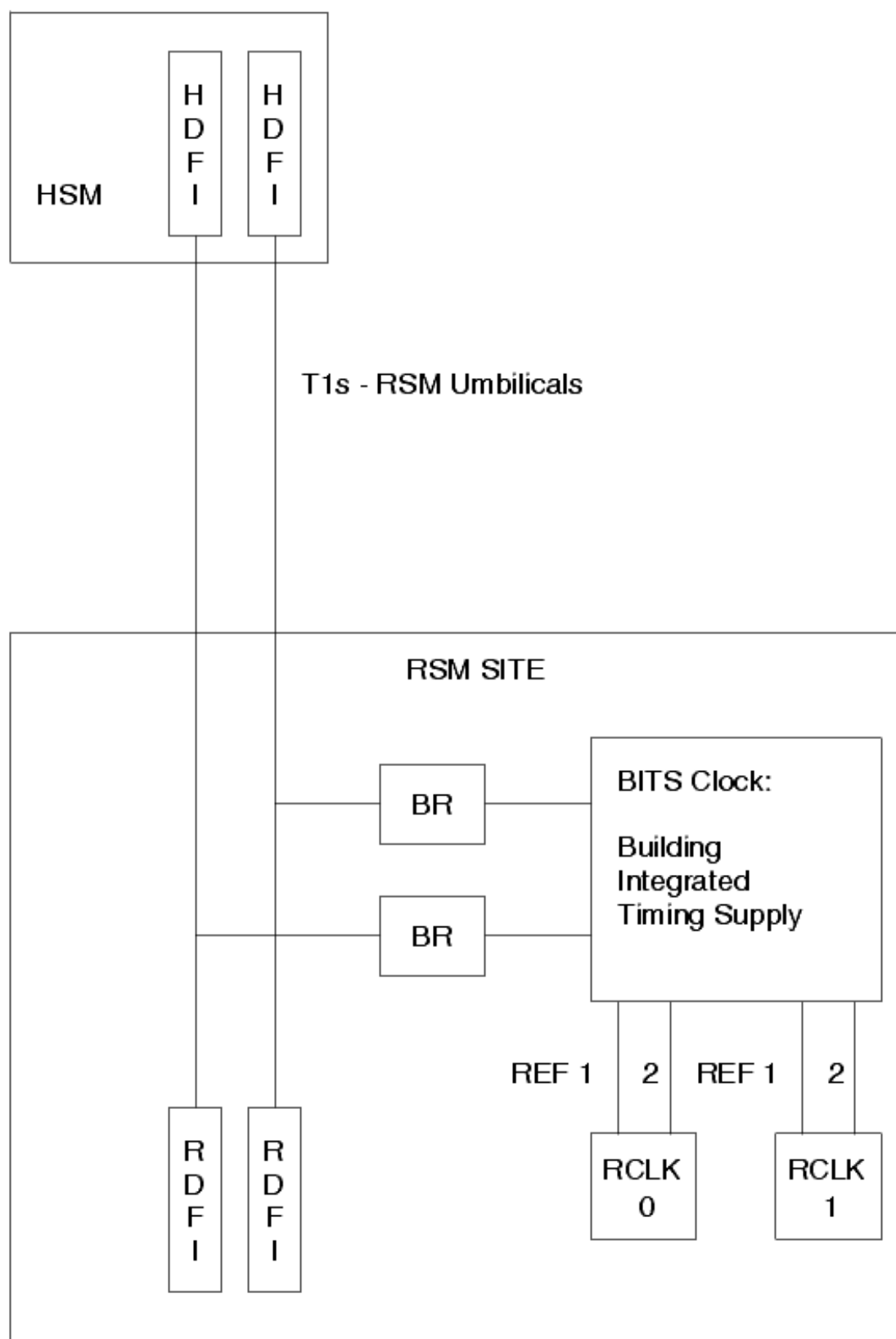


Figure 1 EXT REF "Y"

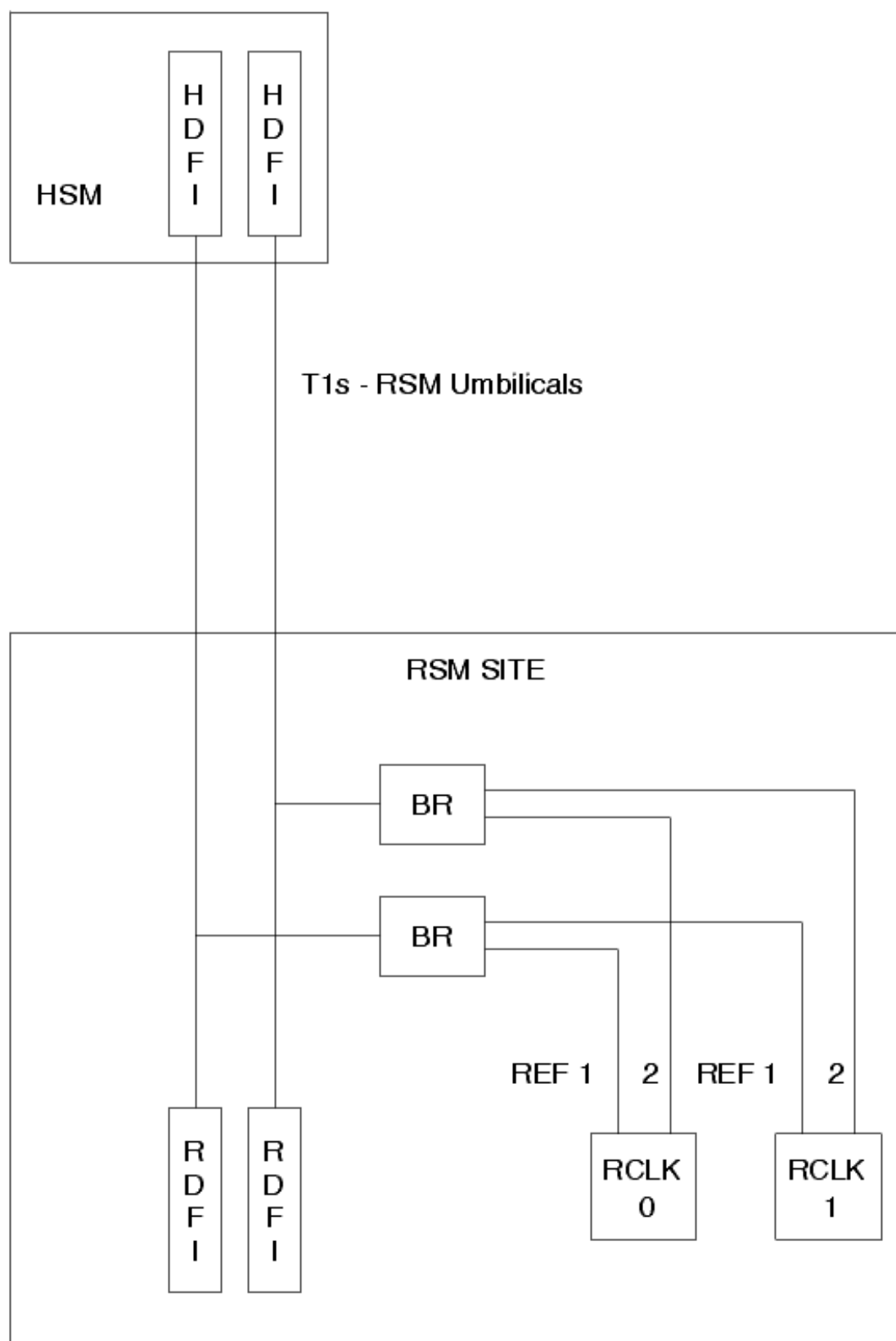


Figure 2 EXT REF "N"

rclkref		5ESS Switch	—
(5519)		OFFICE DATA ADMINISTRATION	
		REMOTE CLOCK REFERENCE	
*1. RSM	008	REFERENCE SOURCE	
*2. REFERENCE	1	9. SM 008	
		10. DLTU 0	
#3. PRIORITY	1	11. DFI 03	
4. EQUIPMENT STATUS	O	12. FAC 0	
5. INTERRUPT STATUS	ALLOW		
#6. REFERENCE TYPE	24CHAN	ALTERNATE SOURCE	
7. REFERENCE FORMAT	FEWZC	13. ALTERNATE SM 008	
8. EXT REF	N	14. ALTERNATE DLTU 1	
		15. ALTERNATE DFIPK 03	
		16. ALTERNATE FAC 0	

Figure 3 SAMPLE RCLKREF FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 5T: 5520 RECORD

DIGIT ANALYSIS TIMING FORM - TIMING

1. GENERAL

The 5520 Record is used to define intervals for Permanent Signal, Partial Dial and Critical Timing in a 5ESS Switch.

1.1 Default Data

A standard set of input data is provided by the ODA system as each office is registered and normally no data need be entered by the ODA system users. If, however, it is required that timing intervals vary from the standard, the TIMING form may be used to specify them (see Figure 1).

With 5E3 and later, a standard set of input data is provided by the 5ODA system for DSN (Defense Switch Network) offices (see Figure 2).

1.2 Line Class of Service

A TIMING form entry must be defined for each combination of Line CLASS OF SERVICE (specified on the LCC form (5306 Record)) and SIGNAL TYPE (TT or DP) for which any Line form (5109-1/2 Record) or MLHLN form (5111-1/2 Record) entry exists.

With 5E3 and later, a TIMING form entry must be defined for the Line CLASS OF SERVICE "ISDN" specified on the LCC form (5306 Record) and SIGNAL TYPE of "DCHN", for which any DSL form (5900 Record) or DSMLHLN form (5901 Record) exists.

1.3 Trunk Class of Service

A TIMING form must be defined for each combination of Trunk Class, (with the exception of "ACJCK", "FXROTL", "EDSL", "EDSLHM", "IFOPER", "IFTERM", "OTOTK", "PACKET", "TCIKT" and "TCITT") and INPULSING field, defined on the TKGRP form, and IN START DIAL, specified for any incoming or two-way trunk on the TRUNK form.

1.4 Recent Change

The corresponding Recent Change View for this form is 8.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SERVICE CLASS

Description: Enter the Service Class. Service Classes are categorized as either Line or Trunk classes.

Required Field.

Valid LINE CLASS Entries	
Entry	Definition
ATND	Attendant DN.

B911	Basic 911 Emergency Service Bureau.
CALLBK	Trunk and Line Work Station Call Back Line.
CHGCALL	Charge-a-Call Line.
COIN	Coin Line.
HOTMOTL	Line with Hotel/Motel features.
HOTPBX	Line with Hotel/Motel and PBX features.
INDIV	Individual Line.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Line.
ISDN	Software Release: 5E3 and later. Digital Subscriber Line.
LTPCLBCK	Recent Change only. See CALLBK for definition.
MODEM	Software Release: 5E3 and later. Packet Switching Modem Pooling.
PBX	Line with PBX features.
RCDM	Software Release: 5E7 and later. Recent Change Delayed Message.
SATSTLN	Stand-alone test line for RSM and Local SM use.
TEST	Test Line.
TWOPTY	Two Party Line.
2PTY	2 Party Multi-Frequency Ringing.
4PFS	4 Party Full-Selective.
4PSS	4 Party Semi-Selective.
4WINDIV	Software Releaser: 5E3 and later. 4-Wire Individual.
5PTY	5 Party Multi-Frequency Ringing.
8PSS	8 Party Semi-Selective.
10PTY	10 Party Multi-Frequency Ringing.

Valid TRUNK CLASS Entries

Entry	Definition
ACJCK	Incoming From TLWS (Trunk and Line Work Station) for AC Testing.
ATNDVIFY	Software Release: 5E8 and later. Remote Busy Verify. Allows the ISDN Attendant the ability to verify lines on remote 5ESS Switches by way of BVTs (Busy Verify Trunks). The lines on the remote Switch may be busy verified only if they are associated to an incoming ISAT BVT. For information on how various TNs are associated, see Division 2, Section 1T.
BUSYVIFY	Incoming From Switchboard or TSPS.
CAMAANI	Incoming CAMA ANI Trunks.
CAMAONI	Incoming CAMA ONI Trunks.
DIOR	Software Release: 5E6 and later. Direct International Origination.
EDSL	Extended Digital Subscriber Line trunks.
EDSLHM	Extended Digital Subscriber Line hotel/motel service to TSPS.
FIOPR	Software Release: 5E4(2) and later. Intermediate Switch Point for incoming operator trunk.
IC	Interexchange Carrier.
IDCS	Software Release: 5E9(1) and later. Inter-DCS (Digital Cellular Switch) trunk.
INAISTRK	Software Release: 5E6(2) and later. Incoming Intercept Trunk using an EIS (External Information System) database.
LATA	Intertoll Trunks from a LATA.
LTOLLCON	Toll Connecting Trunk - Local Office End.
PF	Private Facility Trunk.
PFITT	Software Release: 5E3 and later. Private Facility Intertandem Trunk.
PFLASH	Private Facility Trunk with FLASH.
PRINTOLL	Primary Intertoll.
RMSD3	Software Release: 5E4(2) and later. TAT connected to a RMSD3.
SCINTOLL	Secondary Intertoll.
SPAB800	Software Release: 5E5 and later. Special Access Basic 800 Service.

SPAM800	Software Release: 5E5 and later. MEGACOM 800 Service.
SPAMEG	Software Release: 5E5 and later. MEGACOM service.
SPAWATS	Software Release: 5E5 and later. Special Access WATS service.
TOLLOPER	Incoming From Toll Switchboard.
TOPAS	Software Release: 5E4(2) and later. TAT connected to TOPAS.
TSTK	LTD, Incoming or Outgoing.
TTOLCO	Toll Connecting - Toll Office End.

Data Rules:

For 5E6(2) and later, when a TIMING form is submitted with a SERVICE CLASS of "INAISTRK", at least one TKGRP form must be submitted with a TRKCLS of "INAISTRK".

For 5E7 and later, if SERVICE CLASS is "RCDM", then

- SIGNAL TYPE must be "DP" or "TT"
- START SIGNAL must be "NONE"

and the following fields default to recommended values that may be changed if desired:

CRITICAL TIMING defaults to "4"

PARTIAL DIAL TIMING defaults to "20"

PERMANENT SIGNAL TIMING defaults to "20"

OVERLOAD PARTIAL DIAL defaults to "10"

OVERLOAD PERM. SIGNAL defaults to "10"

For 5E8 and later, if SERVICE CLASS is equal to "ATNDVFY", START SIGNAL must equal "WINK", and SIGNAL TYPE must equal "MF".

For 5E9(1) and later, if SFID ACT 130 is "N" on the SFSYS form (5713-1 Record), SERVICE CLASS may not be "IDCS". If SERVICE CLASS is "IDCS", SIGNAL TYPE must be "MF" or "TT". Additionally, the following fields must be set within the valid ranges. When a field is left blank, the system will set it to the specified default value.

Service Class "IDCS"		
Field	Range	Default
CRITICAL TIMING	2 - 5	4
PARTIAL DIAL TIMING	4 - 12	4
PERMANENT SIGNAL TIMING	4 - 12	5
OVERLOAD PARTIAL DIAL	4 - 12	4
OVERLOAD PERM SIGNAL	4 - 12	5

2.3 * START SIGNAL

Description: Enter the Start Signal Type.

Required Field.

Valid LINE CLASS START SIGNAL Entries	
Entry	Definition
NONE	No start signal for lines, revertive pulse trunks, and CCS trunks.
WINK	Wink Start.
WNKDT	Software Release: 5E3 and later.

	Wink Start and Dial Tone. Used in the Defense Switched Network.
DLTN	Dial Tone.

Data Rules:

For any LINE Service Class, with the exception of "4WINDIV", the only valid entry is "NONE".

For a LINE Service Class of "4WINDIV", the valid entries are "WINK", "WINKDT", and "DLTN".

Valid TRUNK CLASS START SIGNAL Entries	
Entry	Definition
ANSDTONE	Software Release: 5E4(2) and later. Answer Supervision/Dial Tone. Provide answer supervision along with dial tone start signal on incoming trunks when the 5ESS Switch is configured as a PBX.
DLAY	Delay Dial.
DLTN	Dial Tone.
IMED	Immediate Start.
NONE	No start signal for lines, revertive pulse trunks and CCS trunks.
WINK	Wink Start.
DIRC	Incoming Direct Connect Trunk.
GRND	Ground start supervision FX trunk.
LOOP	Loop start supervision FX trunk.
WINKDT	Software Release: 5E3 and later. Wink start and dial tone. Used in the Defense Switched Network.

ANSDTONE:

- "ANSDTONE" is only valid with a SERVICE CLASS of "PF".
- SIGNAL TYPE must be "DP", "MF" or "TT".

DIRC: "DIRC" is valid with SERVICE CLASS of "PF", "PFLASH", "PFITT", "LTOLLCON", or "INAISTRK". When START SIGNAL is "DIRC", then SIGNAL TYPE must be "NONE"; for 5E9(1) and later, SIGNAL TYPE must be "DP", "MF", "TT" or "NONE".

GRND and **LOOP:** "GRND" and "LOOP" START SIGNALS are valid only if SERVICE CLASS is a trunk class value of "PF" or "PFLASH".

NONE: When SERVICE CLASS is "LATA": if Signal Type is "MF", START SIGNAL must be "WINK"; if Signal Type is "ISUP7", START SIGNAL must be "NONE".

A SERVICE CLASS of "EDSL" or "EDSLHM" must have a START SIGNAL of "NONE".

WINK: A Service Class of "IC", "RMSD3" or "TOPAS" must have a Start Signal of "WINK". For Software Release 5E5 and earlier, a Service Class of "LATA" must also have a Start Signal of "WINK".

A SERVICE CLASS of "SPAWATS" or "SPAMEG" must have a START SIGNAL of "WINK", "DLTN" or "IMED".

A SERVICE CLASS of "SPAB800" or "SPAM800" must have a START SIGNAL of "WINK", "DLAY" or "IMED".

For 5E6(2) and later, START SIGNAL must be "WINK", "DLAY", "IMED", or "DIRC", if SERVICE CLASS IS "INAISTRK".

2.4 * SIGNAL TYPE

Description: Enter the Signal Type.

Required Field.

Valid LINE SERVICE CLASS SIGNAL TYPE Entries	
Entry	Definition
DP	Dial Pulse.
TT	Touch-Tone.
DCHN	Software Release: 5E3 and later. D-Channel signaling for Digital Subscriber Lines

Data Rules:

The only valid entry for a LINE SERVICE CLASS code of "4WINDIV" is "TT".

DCHN: For 5E3 - 5E5, "DCHN" is valid only with SERVICE CLASS "ISDN" and "ISATND".

For 5E6 and later, it is also valid for SERVICE CLASS "EDSL" and "EDSLHM". START SIGNAL must be "NONE". All LINE SERVICE CLASSES, with the exception of "4WINDIV", the valid entries are "DP", "TT", and "DCHN".

Valid TRUNK CLASS SIGNAL TYPE Entries	
Entry	Definition
DP	Dial Pulse.
MF	Multifrequency.
NONE	No Impulsing for direct connect trunks.
RPEO	Revertive Pulsing to End Office.
RPTO	Revertive Pulsing to Tandem Office.
TT	Touch-Tone.

Signal types "RPEO" and "RPTO" are valid only with SERVICE CLASS "LTOLLCON" and START SIGNAL must be "IMED".

When SIGNAL TYPE is "NONE", then START SIGNAL must be "DIRC".

A SERVICE CLASS of "IC", "LATA", "RMSD3" or "TOPAS" must have a SIGNAL TYPE of "MF".

A SERVICE CLASS of "SPAWATS", "SPAMEG", "SPAB800" or "SPAM800" must have a SIGNAL TYPE of "MF", "DP" or "TT".

A SERVICE CLASS of "PF" or "PFLASH" must have a SIGNAL TYPE of "DP", "MF", "TT" or "NONE".

A SERVICE CLASS of "PFITT" must have a SIGNAL TYPE of "DP", "ISUP7", "MF", "TT" or "NONE".

A SERVICE CLASS of "LATA" must have a SIGNAL TYPE of "ISUP7" or "MF".

A SERVICE CLASS of "EDSL" or "EDSLHM" must have a SIGNAL TYPE of "DCHN" or "NONE".

For 5E6(2) and later, the SIGNAL TYPE must be "MF", "DP", or "NONE", if the SERVICE CLASS is "INAISTRK".

2.5 CRITICAL TIMING

Description: Enter the Critical Timing interval in seconds. Critical timing is used between dialed or in-pulsed digits where a timeout would cause digit analysis to provide a Specified Feature Treatment (PDIT form) or Code Conflict Treatment (LDIT form).

Valid Entries: 2 - 5 (seconds)

Data Rules:

For 5E8 and earlier, the CRITICAL TIMING value must be at least two seconds less than the PARTIAL DIAL TIMING.

2.6 PARTIAL DIAL TIMING

Description: Enter the partial dial timing interval in seconds. PARTIAL DIAL TIMING is used under normal conditions. OVERLOAD PARTIAL DIAL is used when an office is in an overload condition. Either PARTIAL DIAL TIMING or OVERLOAD PARTIAL DIAL will be in effect at one time. An office would not have both in use at the same time.

Required Field.

Valid Entries: 2 - 120 (seconds)

2.7 PERMANENT SIGNAL TIMING

Description: Enter the permanent signal timing interval in seconds. PERMANENT SIGNAL TIMING is used under normal conditions. OVERLOAD PERM. SIGNAL is used when an office is in an overload condition. Either PERMANENT SIGNAL TIMING or OVERLOAD PERM. SIGNAL will be in effect at one time. An office would not have both in use at the same time.

Required Field.

Valid Entries: 2 - 120 (seconds)

2.8 OVERLOAD PARTIAL DIAL

Description: Enter the partial dial timing interval under office overload conditions. Partial dial timing is used under normal conditions. OVERLOAD PARTIAL DIAL is used when an office is in an overload condition. Either PARTIAL DIAL TIMING or OVERLOAD PARTIAL DIAL will be in effect at one time. An office would not have both in use at the same time.

Required Field.

Valid Entries: 2 - 120 (seconds)

2.9 OVERLOAD PERM. SIGNAL

Description: Enter the permanent signal timing interval when the office is in an overload condition. PERMANENT SIGNAL TIMING is used under normal conditions. OVERLOAD PERM. SIGNAL is used when an office is in an overload condition. Either PERMANENT SIGNAL TIMING or OVERLOAD PERM. SIGNAL will be in effect at one time. An office would not have both in use at the same time.

Required Field.

Valid Entries: 2 - 120 (seconds)

SERVICE CLASS	STARTSIGNAL	SIGNAL TYPE	TIMING INTERVALS					SOFTWARE RELEASE
			CRITICAL	PART. DIAL	PERM. SIG.	OVERLOAD PART. DIAL	OVERLOAD PERM. SIG.	
10PTY	NONE	DP	4	20	20	10	10	5E3 and later
10PTY	NONE	TT	4	20	20	10	10	5E3 and later
2PTY	NONE	DP	4	20	20	10	10	5E3 and later
2PTY	NONE	TT	4	20	20	10	10	5E3 and later
4PFS	NONE	DP	4	20	20	10	10	5E3 and later
4PFS	NONE	TT	4	20	20	10	10	5E3 and later

4PSS	NONE	DP	4	20	20	10	10	5E3 and later
4PSS	NONE	TT	4	20	20	10	10	5E3 and later
4WINDIV	DLTN	TT	4	20	20	10	10	5E3 and later
4WINDIV	WINK	TT	4	20	20	10	10	5E3 and later
4WINDIV	WNKDT	TT	4	20	20	10	10	5E3 and later
5PTY	NONE	DP	4	20	20	10	10	5E3 and later
5PTY	NONE	TT	4	20	20	10	10	5E3 and later
8PSS	NONE	DP	4	20	20	10	10	5E3 and later
8PSS	NONE	TT	4	20	20	10	10	5E3 and later
ACJCK	NONE	MF	4	20	20	10	10	5E3 and later
ATND	NONE	DP	4	20	20	10	10	5E3 and later
ATND	NONE	TT	4	20	20	10	10	5E3 and later
ATNDVfy	WINK	MF	4	20	20	10	10	5E8 and later
B911	NONE	DP	4	20	20	10	10	5E3 and later
B911	NONE	TT	4	20	20	10	10	5E3 and later
BUSYVfy	DLAY	DP	4	20	20	10	10	5E3 and later
BUSYVfy	DLAY	MF	4	20	20	10	10	5E3 and later
BUSYVfy	IMED	DP	4	20	20	10	10	5E3 and later
BUSYVfy	IMED	MF	4	20	20	10	10	5E3 and later
BUSYVfy	WINK	DP	4	20	20	10	10	5E3 and later
BUSYVfy	WINK	MF	4	20	20	10	10	5E3 and later
CALLBK	NONE	DP	4	20	20	10	10	5E3 and later
CALLBK	NONE	TT	4	20	20	10	10	5E3 and later
CAMAANI	DLAY	DP	4	20	20	10	10	5E3 and later
CAMAANI	DLAY	MF	4	20	20	10	10	5E3 and later
CAMAANI	IMED	DP	4	20	20	10	10	5E3 and later
CAMAANI	IMED	MF	4	20	20	10	10	5E3 and later
CAMAANI	WINK	DP	4	20	20	10	10	5E3 and later
CAMAANI	WINK	MF	4	20	20	10	10	5E3 and later
CAMAONI	DLAY	DP	4	20	20	10	10	5E3 and later
CAMAONI	DLAY	MF	4	20	20	10	10	5E3 and later
CAMAONI	IMED	DP	4	20	20	10	10	5E3 and later
CAMAONI	IMED	MF	4	20	20	10	10	5E3 and later
CAMAONI	WINK	DP	4	20	20	10	10	5E3 and later
CAMAONI	WINK	MF	4	20	20	10	10	5E3 and later
CHGCALL	NONE	DP	4	20	20	10	10	5E3 and later
CHGCALL	NONE	TT	4	20	20	10	10	5E3 and later
COIN	NONE	DP	4	20	20	10	10	5E3 and later
COIN	NONE	TT	4	20	20	10	10	5E3 and later
DIOR	WINK	MF	4	20		10		5E6 and later
DIOR	DLAY	MF	4	20		10		5E6 and later
EDSL	NONE	DCHN	4	20	20	10	10	5E6 and later
EDSLHM	NONE	DCHN	4	20	20	10	10	5E6 and later
FIOPR	DLAY	DP	4	20	20	10	10	5E3 and later
FIOPR	DLAY	MF	4	20	20	10	10	5E3 and later
FIOPR	IMED	DP	4	20	20	10	10	5E3 and later
FIOPR	IMED	MF	4	20	20	10	10	5E3 and later
FIOPR	WINK	DP	4	20	20	10	10	5E3 and later
FIOPR	WINK	MF	4	20	20	10	10	5E3 and later
HOTMOTL	NONE	DP	4	20	20	10	10	5E3 and later
HOTMOTL	NONE	TT	4	20	20	10	10	5E3 and later
HOTPBX	NONE	DP	4	20	20	10	10	5E3 and later
HOTPBX	NONE	TT	4	20	20	10	10	5E3 and later
INAISTRK	WINK	MF	4	20	20	10	10	5E6(2) and later
INAISTRK	DLAY	MF	4	20	20	10	10	5E6(2) and later
INAISTRK	WINK	DP	4	20	20	10	10	5E6(2) and later
INAISTRK	DLAY	DP	4	20	20	10	10	5E6(2) and later
INAISTRK	IMED	MF	4	20	20	10	10	5E6(2) and later
INAISTRK	IMED	DP	4	20	20	10	10	5E6(2) and later
INAISTRK	DIRC	NONE	4	20	20	10	10	5E6(2) and later

INDIV	NONE	DP	4	20	20	10	10	5E3 and later
INDIV	NONE	TT	4	20	20	10	10	5E3 and later
ISATND	NONE	DCHN	4	20	20	10	10	5E4(2) and later
ISDN	NONE	DCHN	4	20	20	10	10	5E3 and later
LATA	NONE	ISUP7	4	20	20	10	10	5E6 and later
LATA	WINK	MF	4	20	20	10	10	5E3 and later
LTOLLCON	DIRC	NONE	4	20	20	10	10	5E3 and later
LTOLLCON	DLAY	DP	4	20	20	10	10	5E3 and later
LTOLLCON	DLAY	MF	4	20	20	10	10	5E3 and later
LTOLLCON	DLTN	DP	4	20	20	10	10	5E3 and later
LTOLLCON	DLTN	MF	4	20	20	10	10	5E3 and later
LTOLLCON	IMED	DP	4	20	20	10	10	5E3 and later
LTOLLCON	IMED	MF	4	20	20	10	10	5E3 and later
LTOLLCON	IMED	RPEO	4	20	110	10	10	5E3 and later
LTOLLCON	IMED	RPTO	4	20	110	10	10	5E3 and later
LTOLLCON	WINK	DP	4	20	20	10	10	5E3 and later
LTOLLCON	WINK	MF	4	20	20	10	10	5E3 and later
MODEM	NONE	DP	4	20	20	10	10	5E3 and later
MODEM	NONE	TT	4	20	20	10	10	5E3 and later
PBX	NONE	DP	4	20	20	10	10	5E3 and later
PBX	NONE	TT	4	20	20	10	10	5E3 and later
PF	ANSDTONE	DP	4	20	20	10	10	5E3 and later
PF	ANSDTONE	MF	4	20	20	10	10	5E3 and later
PF	ANSDTONE	TT	4	20	20	10	10	5E3 and later
PF	DLAY	DP	4	20	20	10	10	5E3 and later
PF	DLAY	MF	4	20	20	10	10	5E3 and later
PF	DLAY	TT	4	20	20	10	10	5E3 and later
PF	DLTN	DP	4	20	20	10	10	5E3 and later
PF	DLTN	MF	4	20	20	10	10	5E3 and later
PF	DLTN	TT	4	20	20	10	10	5E3 and later
PF	GRND	DP	4	20	20	10	10	5E3 and later
PF	GRND	MF	4	20	20	10	10	5E3 and later
PF	GRND	TT	4	20	20	10	10	5E3 and later
PF	IMED	DP	4	20	20	10	10	5E3 and later
PF	IMED	MF	4	20	20	10	10	5E3 and later
PF	IMED	TT	4	20	20	10	10	5E3 and later
PF	LOOP	DP	4	20	20	10	10	5E3 and later
PF	LOOP	MF	4	20	20	10	10	5E3 and later
PF	LOOP	TT	4	20	20	10	10	5E3 and later
PF	WINK	DP	4	20	20	10	10	5E3 and later
PF	WINK	MF	4	20	20	10	10	5E3 and later
PF	WINK	TT	4	20	20	10	10	5E3 and later
PFITT	DLAY	DP	4	20	20	10	10	5E3 and later
PFITT	DLAY	MF	4	20	20	10	10	5E3 and later
PFITT	DLAY	TT	4	20	20	10	10	5E3 and later
PFITT	DLTN	DP	4	20	20	10	10	5E3 and later
PFITT	DLTN	MF	4	20	20	10	10	5E3 and later
PFITT	DLTN	TT	4	20	20	10	10	5E3 and later
PFITT	IMED	DP	4	20	20	10	10	5E3 and later
PFITT	IMED	TT	4	20	20	10	10	5E3 and later
PFITT	WINK	DP	4	20	20	10	10	5E3 and later
PFITT	WINK	MF	4	20	20	10	10	5E3 and later
PFITT	WINK	TT	4	20	20	10	10	5E3 and later
PFLASH	DLAY	DP	4	20	20	10	10	5E3 and later
PFLASH	DLAY	MF	4	20	20	10	10	5E3 and later
PFLASH	DLAY	TT	4	20	20	10	10	5E3 and later
PFLASH	DLTN	DP	4	20	20	10	10	5E3 and later
PFLASH	DLTN	MF	4	20	20	10	10	5E3 and later
PFLASH	DLTN	TT	4	20	20	10	10	5E3 and later
PFLASH	GRND	DP	4	20	20	10	10	5E3 and later
PFLASH	GRND	MF	4	20	20	10	10	5E3 and later
PFLASH	GRND	TT	4	20	20	10	10	5E3 and later
PFLASH	IMED	DP	4	20	20	10	10	5E3 and later
PFLASH	IMED	MF	4	20	20	10	10	5E3 and later
PFLASH	IMED	TT	4	20	20	10	10	5E3 and later
PFLASH	LOOP	DP	4	20	20	10	10	5E3 and later
PFLASH	LOOP	MF	4	20	20	10	10	5E3 and later
PFLASH	LOOP	TT	4	20	20	10	10	5E3 and later

PFLASH	WINK	DP	4	20	20	10	10	5E3 and later
PFLASH	WINK	MF	4	20	20	10	10	5E3 and later
PFLASH	WINK	TT	4	20	20	10	10	5E3 and later
PRINTOLL	DLAY	DP	4	20	20	10	10	5E3 and later
PRINTOLL	DLAY	MF	4	20	20	10	10	5E3 and later
PRINTOLL	IMED	DP	4	20	20	10	10	5E3 and later
PRINTOLL	IMED	MF	4	20	20	10	10	5E3 and later
PRINTOLL	WINK	DP	4	20	20	10	10	5E3 and later
PRINTOLL	WINK	MF	4	20	20	10	10	5E3 and later
RCDM	NONE	DP	4	20	20	10	10	5E7 and later
RCDM	NONE	TT	4	20	20	10	10	5E7 and later
RMSD3	WINK	MF	4	20	20	10	10	5E3 and later
SATSTLN	NONE	DP	4	20	20	10	10	5E3 and later
SATSTLN	NONE	TT	4	20	20	10	10	5E3 and later
SCINTOLL	DLAY	DP	4	20	20	10	10	5E3 and later
SCINTOLL	DLAY	MF	4	20	20	10	10	5E3 and later
SCINTOLL	IMED	DP	4	20	20	10	10	5E3 and later
SCINTOLL	IMED	MF	4	20	20	10	10	5E3 and later
SCINTOLL	WINK	DP	4	20	20	10	10	5E3 and later
SCINTOLL	WINK	MF	4	20	20	10	10	5E3 and later
SPAB800	DLAY	DP	4	10	10	10	10	5E5 and later
SPAB800	DLAY	MF	4	10	10	10	10	5E5 and later
SPAB800	DLAY	TT	4	10	10	10	10	5E5 and later
SPAB800	IMED	DP	4	10	10	10	10	5E5 and later
SPAB800	IMED	MF	4	10	10	10	10	5E5 and later
SPAB800	IMED	TT	4	10	10	10	10	5E5 and later
SPAB800	WINK	DP	4	10	10	10	10	5E5 and later
SPAB800	WINK	MF	4	10	10	10	10	5E5 and later
SPAB800	WINK	TT	4	10	10	10	10	5E5 and later
SPAM800	DLAY	DP	4	10	10	10	10	5E5 and later
SPAM800	DLAY	MF	4	10	10	10	10	5E5 and later
SPAM800	DLAY	TT	4	10	10	10	10	5E5 and later
SPAM800	IMED	DP	4	10	10	10	10	5E5 and later
SPAM800	IMED	MF	4	10	10	10	10	5E5 and later
SPAM800	IMED	TT	4	10	10	10	10	5E5 and later
SPAM800	WINK	DP	4	10	10	10	10	5E5 and later
SPAM800	WINK	MF	4	10	10	10	10	5E5 and later
SPAM800	WINK	TT	4	10	10	10	10	5E5 and later
SPAMEG	DLTN	DP	4	10	10	10	10	5E5 and later
SPAMEG	DLTN	MF	4	10	10	10	10	5E5 and later
SPAMEG	DLTN	TT	4	10	10	10	10	5E5 and later
SPAMEG	WINK	DP	4	10	10	10	10	5E5 and later
SPAMEG	WINK	MF	4	10	10	10	10	5E5 and later
SPAMEG	WINK	TT	4	10	10	10	10	5E5 and later
SPAWATS	DLTN	DP	4	10	10	10	10	5E5 and later
SPAWATS	DLTN	MF	4	10	10	10	10	5E5 and later
SPAWATS	DLTN	TT	4	10	10	10	10	5E5 and later
SPAWATS	WINK	DP	4	10	10	10	10	5E5 and later
SPAWATS	WINK	MF	4	10	10	10	10	5E5 and later
SPAWATS	WINK	TT	4	10	10	10	10	5E5 and later
TEST	NONE	DP	4	20	20	10	10	5E3 and later
TEST	NONE	TT	4	20	20	10	10	5E3 and later
TOLLOPER	DLAY	DP	4	20	20	10	10	5E3 and later
TOLLOPER	DLAY	MF	4	20	20	10	10	5E3 and later
TOLLOPER	IMED	DP	4	20	20	10	10	5E3 and later
TOLLOPER	IMED	MF	4	20	20	10	10	5E3 and later
TOLLOPER	WINK	DP	4	20	20	10	10	5E3 and later
TOLLOPER	WINK	MF	4	20	20	10	10	5E3 and later
TOPAS	WINK	MF	4	20	20	10	10	5E3 and later
TSTK	WINK	MF	4	20	20	10	10	5E3 and later
TTOLLCON	DLAY	DP	4	20	20	10	10	5E3 and later
TTOLLCON	DLAY	MF	4	20	20	10	10	5E3 and later
TTOLLCON	IMED	DP	4	20	20	10	10	5E3 and later
TTOLLCON	IMED	MF	4	20	20	10	10	5E3 and later
TTOLLCON	WINK	DP	4	20	20	10	10	5E3 and later
TTOLLCON	WINK	MF	4	20	20	10	10	5E3 and later
TWOPTY	NONE	DP	4	20	20	10	10	5E3 and later
TWOPTY	NONE	TT	4	20	20	10	10	5E3 and later

Figure 1 DEFAULT DATA PROVIDED BY ODA

SERVICE CLASS	STARTSIGNAL	SIGNAL TYPE	TIMING INTERVALS					SOFTWARE RELEASE
			CRITICAL	PART. DIAL	PERM. SIG.	OVERLOAD PART. DIAL	OVERLOAD PERM. SIG.	
10PTY	NONE	DP	4	20	20	10	10	5E3 and later
10PTY	NONE	TT	4	20	20	10	10	5E3 and later
2PTY	NONE	DP	4	20	20	10	10	5E3 and later
2PTY	NONE	TT	4	20	20	10	10	5E3 and later
4PFS	NONE	DP	4	20	20	10	10	5E3 and later
4PFS	NONE	TT	4	20	20	10	10	5E3 and later
4PSS	NONE	DP	4	20	20	10	10	5E3 and later
4PSS	NONE	TT	4	20	20	10	10	5E3 and later
4WINDIV	DLTN	DP	4	10	10	10	10	5E3 and later
4WINDIV	DLTN	TT	4	10	10	10	10	5E3 and later
4WINDIV	WINK	DP	4	10	10	10	10	5E3 and later
4WINDIV	WINK	TT	4	10	10	10	10	5E3 and later
4WINDIV	WNKDT	DP	4	10	10	10	10	5E3 and later
4WINDIV	WNKDT	TT	4	10	10	10	10	5E3 and later
5PTY	NONE	DP	4	20	20	10	10	5E3 and later
5PTY	NONE	TT	4	20	20	10	10	5E3 and later
8PSS	NONE	DP	4	20	20	10	10	5E3 and later
8PSS	NONE	TT	4	20	20	10	10	5E3 and later
ACJCK	NONE	MF	4	20	20	10	10	5E3 and later
ATND	NONE	DP	4	10	10	10	10	5E3 and later
ATND	NONE	TT	4	10	10	10	10	5E3 and later
ATNDVIFY	WINK	MF	4	10	10	10	10	5E8 and later
B911	NONE	DP	4	20	20	10	10	5E3 and later
B911	NONE	TT	4	20	20	10	10	5E3 and later
BUSYVIFY	DLAY	DP	4	20	20	10	10	5E3 and later
BUSYVIFY	DLAY	MF	4	20	20	10	10	5E3 and later
BUSYVIFY	IMED	DP	4	20	20	10	10	5E3 and later
BUSYVIFY	IMED	MF	4	20	20	10	10	5E3 and later
BUSYVIFY	WINK	DP	4	20	20	10	10	5E3 and later
BUSYVIFY	WINK	MF	4	20	20	10	10	5E3 and later
CALLBK	NONE	DP	4	20	20	10	10	5E3 and later
CALLBK	NONE	TT	4	20	20	10	10	5E3 and later
CAMAANI	DLAY	DP	4	20	20	10	10	5E3 and later
CAMAANI	DLAY	MF	4	20	20	10	10	5E3 and later
CAMAANI	IMED	DP	4	20	20	10	10	5E3 and later
CAMAANI	IMED	MF	4	20	20	10	10	5E3 and later
CAMAANI	WINK	DP	4	20	20	10	10	5E3 and later
CAMAANI	WINK	MF	4	20	20	10	10	5E3 and later
CAMAONI	DLAY	DP	4	20	20	10	10	5E3 and later
CAMAONI	DLAY	MF	4	20	20	10	10	5E3 and later
CAMAONI	IMED	DP	4	20	20	10	10	5E3 and later
CAMAONI	IMED	MF	4	20	20	10	10	5E3 and later
CAMAONI	WINK	DP	4	20	20	10	10	5E3 and later
CAMAONI	WINK	MF	4	20	20	10	10	5E3 and later
CHGCALL	NONE	DP	4	20	20	10	10	5E3 and later
CHGCALL	NONE	TT	4	20	20	10	10	5E3 and later
COIN	NONE	DP	4	20	20	10	10	5E3 and later
COIN	NONE	TT	4	20	20	10	10	5E3 and later
HOTMOTL	NONE	DP	4	20	20	10	10	5E3 and later
HOTMOTL	NONE	TT	4	20	20	10	10	5E3 and later
HOTPBX	NONE	DP	4	20	20	10	10	5E3 and later
HOTPBX	NONE	TT	4	20	20	10	10	5E3 and later
IC	WINK	MF	4	20	20	10	10	5E3 and later
INDIV	NONE	DP	4	10	10	10	10	5E3 and later
INDIV	NONE	TT	4	10	10	10	10	5E3 and later
ISDN	NONE	DCHN	4	20	20	10	10	5E3 and later
LATA	WINK	MF	4	20	20	10	10	5E3 and later
LTOLLCON	DIRC	NONE	4	20	20	10	10	5E3 and later
LTOLLCON	DLAY	DP	4	10	10	10	10	5E3 and later
LTOLLCON	DLAY	MF	4	10	10	10	10	5E3 and later
LTOLLCON	DLTN	DP	4	10	10	10	10	5E3 and later
LTOLLCON	DLTN	MF	4	10	10	10	10	5E3 and later

LTOLLCON	IMED	DP	4	10	10	10	10	5E3 and later
LTOLLCON	IMED	MF	4	10	10	10	10	5E3 and later
LTOLLCON	IMED	RPEO	4	10	10	10	10	5E3 and later
LTOLLCON	IMED	RPTO	4	10	10	10	10	5E3 and later
LTOLLCON	WINK	DP	4	10	10	10	10	5E3 and later
LTOLLCON	WINK	MF	4	10	10	10	10	5E3 and later
MODEM	NONE	DP	4	20	20	10	10	5E3 and later
MODEM	NONE	TT	4	20	20	10	10	5E3 and later
PBX	NONE	DP	4	10	10	10	10	5E3 and later
PBX	NONE	TT	4	10	10	10	10	5E3 and later
PF	DIRC	NONE	4	20	20	10	10	5E3 and later
PF	DLAY	DP	4	10	10	10	10	5E3 and later
PF	DLAY	MF	4	10	10	10	10	5E3 and later
PF	DLAY	TT	4	10	10	10	10	5E3 and later
PF	DLTN	DP	4	10	10	10	10	5E3 and later
PF	DLTN	MF	4	10	10	10	10	5E3 and later
PF	DLTN	TT	4	10	10	10	10	5E3 and later
PF	GRND	DP	4	10	10	10	10	5E3 and later
PF	GRND	MF	4	10	10	10	10	5E3 and later
PF	GRND	TT	4	10	10	10	10	5E3 and later
PF	IMED	DP	4	10	10	10	10	5E3 and later
PF	IMED	MF	4	10	10	10	10	5E3 and later
PF	IMED	TT	4	10	10	10	10	5E3 and later
PF	LOOP	DP	4	10	10	10	10	5E3 and later
PF	LOOP	MF	4	10	10	10	10	5E3 and later
PF	LOOP	TT	4	10	10	10	10	5E3 and later
PF	WINK	DP	4	10	10	10	10	5E3 and later
PF	WINK	MF	4	10	10	10	10	5E3 and later
PF	WINK	TT	4	10	10	10	10	5E3 and later
PFITT	DLAY	DP	4	20	20	10	10	5E3 and later
PFITT	DLAY	MF	4	20	20	10	10	5E3 and later
PFITT	DLAY	TT	4	20	20	10	10	5E3 and later
PFITT	DLTN	DP	4	20	20	10	10	5E3 and later
PFITT	DLTN	MF	4	20	20	10	10	5E3 and later
PFITT	DLTN	TT	4	20	20	10	10	5E3 and later
PFITT	IMED	DP	4	20	20	10	10	5E3 and later
PFITT	IMED	TT	4	20	20	10	10	5E3 and later
PFITT	WINK	DP	4	20	20	10	10	5E3 and later
PFITT	WINK	MF	4	20	20	10	10	5E3 and later
PFITT	WINK	TT	4	20	20	10	10	5E3 and later
PFLASH	DIRC	NONE	4	20	20	10	10	5E3 and later
PFLASH	DLAY	DP	4	10	10	10	10	5E3 and later
PFLASH	DLAY	MF	4	10	10	10	10	5E3 and later
PFLASH	DLAY	TT	4	10	10	10	10	5E3 and later
PFLASH	DLTN	DP	4	10	10	10	10	5E3 and later
PFLASH	DLTN	MF	4	10	10	10	10	5E3 and later
PFLASH	DLTN	TT	4	10	10	10	10	5E3 and later
PFLASH	GRND	DP	4	10	10	10	10	5E3 and later
PFLASH	GRND	MF	4	10	10	10	10	5E3 and later
PFLASH	GRND	TT	4	10	10	10	10	5E3 and later
PFLASH	IMED	DP	4	10	10	10	10	5E3 and later
PFLASH	IMED	MF	4	10	10	10	10	5E3 and later
PFLASH	IMED	TT	4	10	10	10	10	5E3 and later
PFLASH	LOOP	DP	4	10	10	10	10	5E3 and later
PFLASH	LOOP	MF	4	10	10	10	10	5E3 and later
PFLASH	LOOP	TT	4	10	10	10	10	5E3 and later
PFLASH	WINK	DP	4	10	10	10	10	5E3 and later
PFLASH	WINK	MF	4	10	10	10	10	5E3 and later
PFLASH	WINK	TT	4	10	10	10	10	5E3 and later
PRINTOLL	DLAY	DP	4	10	10	10	10	5E3 and later
PRINTOLL	DLAY	MF	4	10	10	10	10	5E3 and later
PRINTOLL	IMED	DP	4	10	10	10	10	5E3 and later
PRINTOLL	IMED	MF	4	10	10	10	10	5E3 and later
PRINTOLL	WINK	DP	4	10	10	10	10	5E3 and later
PRINTOLL	WINK	MF	4	10	10	10	10	5E3 and later
SATSTLN	NONE	DP	4	20	20	10	10	5E3 and later
SATSTLN	NONE	TT	4	20	20	10	10	5E3 and later
SCINTOLL	DLAY	DP	4	20	20	10	10	5E3 and later
SCINTOLL	DLAY	MF	4	20	20	10	10	5E3 and later

SCINTOLL	IMED	DP	4	20	20	10	10	5E3 and later
SCINTOLL	IMED	MF	4	20	20	10	10	5E3 and later
SCINTOLL	WINK	DP	4	20	20	10	10	5E3 and later
SCINTOLL	WINK	MF	4	20	20	10	10	5E3 and later
TEST	NONE	DP	4	20	20	10	10	5E3 and later
TEST	NONE	TT	4	20	20	10	10	5E3 and later
TOLLOPER	DLAY	DP	4	20	20	10	10	5E3 and later
TOLLOPER	DLAY	MF	4	20	20	10	10	5E3 and later
TOLLOPER	IMED	DP	4	20	20	10	10	5E3 and later
TOLLOPER	IMED	MF	4	20	20	10	10	5E3 and later
TOLLOPER	WINK	DP	4	20	20	10	10	5E3 and later
TOLLOPER	WINK	MF	4	20	20	10	10	5E3 and later
TSTK	WINK	MF	4	20	20	10	10	5E3 and later
TTOLLCON	DLAY	DP	4	10	10	10	10	5E3 and later
TTOLLCON	DLAY	MF	4	10	10	10	10	5E3 and later
TTOLLCON	DLAY	TT	4	10	10	10	10	5E3 and later
TTOLLCON	DLTN	DP	4	10	10	10	10	5E3 and later
TTOLLCON	DLTN	MF	4	10	10	10	10	5E3 and later
TTOLLCON	DLTN	TT	4	10	10	10	10	5E3 and later
TTOLLCON	IMED	DP	4	10	10	10	10	5E3 and later
TTOLLCON	IMED	MF	4	10	10	10	10	5E3 and later
TTOLLCON	IMED	TT	4	10	10	10	10	5E3 and later
TTOLLCON	WINK	DP	4	10	10	10	10	5E3 and later
TTOLLCON	WINK	MF	4	10	10	10	10	5E3 and later
TTOLLCON	WINK	TT	4	10	10	10	10	5E3 and later
TTOLLCON	WNKDT	DP	4	10	10	10	10	5E3 and later
TTOLLCON	WNKDT	MF	4	10	10	10	10	5E3 and later
TTOLLCON	WNKDT	TT	4	10	10	10	10	5E3 and later
TWOPTY	NONE	DP	4	20	20	10	10	5E3 and later
TWOPTY	NONE	TT	4	20	20	10	10	5E3 and later

Figure 2 DEFAULT DATA PROVIDED BY ODA FOR DSN

```

timing                                5ESS Switch
(5520)                             OFFICE DATA ADMINISTRATION
                                   DIGIT ANALYSIS TIMING

```

```

* 1. SERVICE CLASS                INDIV
* 2. START SIGNAL                  NONE
* 3. SIGNAL TYPE                   TT
  4. CRITICAL TIMING               4
  5. PARTIAL DIAL TIMING           20
  6. PERMANENT SIGNAL TIMING       20
  7. OVERLOAD PARTIAL DIAL         10
  8. OVERLOAD PERM. SIGNAL         10

```

Figure 3 SAMPLE TIMING FORM 5E2 AND LATER SOFTWARE RELEASES

SEC. 5U: 5521 RECORD

TOPAS CLLI CODE IDENTIFICATION FORM - CLLI

1. GENERAL

The 5521 Record is available with 5E4(2) and later Software Releases. The TOPAS CCLI Code Identification form is used by toll offices that employ the TOPAS (Testing, Operations, Provisioning and Administration System) Operations System. The TOPAS Operations System provides circuit order and testing administration for circuits terminating on a 5ESS Switch in the AT&T Network.

A single 5521 Record is required to define the 5ESS Office CLLI (Common Language Location Identification) Code; and an additional 5ESS Switch 5521 Record is required for each Remote Switch Module, that has a unique CLLI Code, linked to the host at the local 5ESS Switch Office.

1.1 Recent Change View

There is no corresponding Recent Change View for this form.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * SM TYPE

Description: Enter the type of Switching Module site that is being identified.

Required Field.

Valid SM TYPE Entries	
Entry	Definition
LSM	An identifier for all the Switching Modules located within the local 5ESS Switch Office. There must be only one CLLI form with "LSM" entered in the SM TYPE field.
RSM	An identifier for each Remote Switch Module, that has a unique CLLI code, linked to the host at the local 5ESS Switch Office.

2.3 (*) RSM NBR

Description: Remote Switching Module number.

Valid Entries: 1 - 174

Data Rules:

If "LSM" was entered in the SM TYPE field on this input form, the RSM NBR field must not be entered. If "RSM" was entered in the SM TYPE, then a value must be entered in the RSM NBR field.

The value entered must be defined in the RSM SITE field on the EQIM Form (5700-1 Record).

2.4 # CLLI CODE

Description: Enter the local CLLI Code if the SM TYPE field on this form was set to "LSM". Enter the CLLI Code assigned at the Remote Switching Module if the SM TYPE field on this form was set to "RSM". The entry must be six alphabetic characters followed by five alphanumeric characters. The following example

illustrates a valid entry for the CLLI CODE field.

CLLI CODE Example		
Definition	Entry	Description
ENTITY	"CG8"	Control Group 8
BUILDING	"PT"	Peach Tree
STATE	GA	Georgia
PLACE	"ATLA"	Atlanta

Required Field.

Valid Entries: 11 characters

```
clli          5ESS Switch          —
(5521)        OFFICE DATA ADMINISTRATION
              TOPAS CLLI CODE IDENTIFICATION

*1. SM TYPE   RSM
(*) 2. RSM NBR 082
#3. CLLI CODE ATLAGAPTCG8
```

Figure 1 SAMPLE CLLI FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5W: 5523 RECORD ODA OPTIONS - ODAOPT

1. GENERAL

The 5523 Record is available with 5E2 and later Software Releases. The ODA options form must be completed for a 5ESS Switch. It is used to supply miscellaneous ODA options and parameters for Retrofits or Large Terminal Growth.

The 5523 Record is provided as a reproducible record that may optionally be used. However, if this record is requested in the ODA database using the "records" command, the screen image of the input form will be printed instead of a tabularized record.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * KEY

Description: Enter the key value.

Required Field.

Default: For 5E7 and later: 0

Valid Entries: 0

2.3 TRANSITIONAL LINE PIC

Description: Enter the Carrier Identification Number to be assigned during ODA to each line in the office as its PIC (Presubscribed InterLATA Carrier) if the line does not have a PIC assigned in the PIC field on the defining form and the CIDIAL field on the defining form is not set to "REQ", or "TREQ".

For 5E2, the defining form can be a LINE form (5109-1 Record), or a MLHLN form (5111-1 Record).

For 5E3 and 5E4(2), the defining form can be a LINE form, a MLHLN form, a DSL form (5900-2 Record), or a DSMLHLN form (5901-2 Record).

For 5E5, the defining form can be a LINE form, a MLHLN form or a DSLUSR form (5908-2 Record).

Software Release: 5E5 and earlier

Valid Entries: 0 - 999

Data Rules:

If this field is entered, the value must be defined in the CARRIER ID field on an ICF form (5305 Record).

2.4 # PBX DID CONVERSION

Description: Should PBX DID hundreds groups currently defined in blocks of one hundred consecutive TNs on LINE forms with a common RTI be reassigned to a HGRPAS form (5115 Record)?

This field is applicable to retrofit offices converting to 5E2 through 5E6 and all large terminal growth offices.

The PBX DID conversion has been developed to reassign PBX DID hundreds groups that were assigned on LINE forms prior to the introduction of the HGRPAS form. Conversions requested will be automatically executed at the time of the first crosscheck run. A report listing all the hundred groups converted will be generated by the conversion process. This DID converted report can be accessed using the "list" command.

Software Release: 5E6 and earlier

Required Field.

Valid Entries: Y, N

2.5 HUNDREDS GROUP SM ROUTING ASSIGNMENT

Description: Enter the option for preserving Routing Module assignments indicated on HGRPAS forms.

This field is directly related to the SAVE field on the HGRPAS form. The HGRPAS form allows the assignment of a Circuit Routing Module and/or a Packet Routing Module to a specific Hundreds Group. If none of the Hundreds Groups, or only a subset of the Hundreds Groups within the 5ESS Switch (as opposed to all the Hundreds Groups), are assigned a Circuit Routing Module and/or a Packet Routing Module, the 5ODA software will apply a series of algorithms to assign a Circuit Routing Module and/or a Packet Routing Module to those Hundreds Groups without assignment.

The series of algorithms assign a Routing Module based on the physical terminations of Telephone Numbers within the Hundreds Group. The first choice for a Routing Module would be the SM in which the most TNs, within the Hundreds Group, physically terminate. This would optimize call processing performance and reduce memory usage.

If all the Telephone Numbers within a Hundreds Group physically terminated on RSMs, ORMs, or TRMs within the same Remote Site, one of the RSMs, ORMs, or TRMs would be the choice for the Routing Module.

The SAVE field on the HGRPAS form is used to indicate if the Circuit Routing Module, or Packet Routing Module, or both, assigned to a particular Hundreds Group, are to be saved for an office undergoing a Retrofit or a Large Terminal Growth.

Software Release: 5E5 and later

Valid Entries:

Valid HUNDREDS GROUP SM ROUTING ASSIGNMENT Entries	
Entry	Definition
REALLOCATE or R	5ODA will apply the series of algorithms to every Hundreds Group in the 5ESS Switch. 5ODA will completely ignore the existing Routing Module assignments.
PARTIAL or P	ODA will apply the series of algorithms only to those Hundreds Groups associated with either no entry, or an entry of "NONE" in the SAVE field on HGRPAS forms. If the SAVE field has an entry of "CKT", "PKT", or "BOTH", that existing assignment will be preserved.
PRESERVE or S	5ODA will not apply the series of algorithms to any Hundreds Groups in the 5ESS Switch regardless of the SAVE entries on HGRPAS forms. Every existing assignment will be preserved.

Data Rules:

This field must be entered for an office undergoing a Retrofit or a Large Terminal Growth, but must not be entered for a new office.

If "PARTIAL" is entered in this field, at least one HGRPAS form must be submitted where at least one SAVE field has a value of "CKT", "PKT", or "BOTH".

2.6 MULTIWAY 3WAY CONSTRUCTED FEATURE

Description: Enter the name of a constructed feature with MULTIWAY CONTROL equal to "3WAY" that the office plans to replace with the standardized /MWCTIA4 feature (MULTIWAY CONTROL equals "3WAY" on the MWFD form (5602-1/2 Record)). Since this is a required field, if a feature name does not need to be entered, enter the word "NONE".

The /MWCTIA4 preconstructed feature on the MWFD form has existed in two ways, with MULTIWAY CONTROL equal to "3WAY" or "AUTO3WAY". For retrofits, if an office has previously come in with /MWCTIA4 MULTIWAY CONTROL equal to "3WAY", was forced to change to "AUTO3WAY" and built a new constructed feature with "3WAY" to maintain functionality, this field will help the office to convert that new constructed feature back to the standardized /MWCTIA4. A new preconstructed feature /MWCTIA5 is identical to /MWCTIA4, except that MULTIWAY CONTROL is equal to "AUTO3WAY".

Two crosschecks will be run using this new field. The first crosscheck will compare the constructed feature to /MWCTIA4 and specify any discrepancies so that office is assured of maintaining functionality following the change. The second crosscheck will identify all assignments of the constructed feature in the database. Using the output from this crosscheck, the office (or the ODA Project Consultants, at the office's request) can manually change some or all of the assignments of the constructed feature to /MWCTIA4.

Software Release: 5E7 and later

Required Field.

Valid Entries: Any valid constructed feature name (not beginning with a /) or NONE

2.7 ASP DEFAULT ROUTE INDEX

Description: Enter the default ASP route index for 3/6/10-N11 trigger definitions in digit analysis translations. When an ASP trigger is assigned on an IDDD, LDIT, MLDIT or RDIT form and no OFFICE CODE or ROUTE INDEX is entered, the entry for this ASP DEFAULT ROUTE INDEX field is used as the ROUTE INDEX.

This ROUTE INDEX will then be used when an attempt is made to route to the DN specified as the 3/6/10-N11 trigger, either if the ASP trigger is deactivated or if the SCP routes the call back to the DN after the query.

Software Release: 5E8 and later

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

2.8 HAVE THE DIALING PLANS FOR ASP USERS BEEN REVIEWED?

Description: Have you reviewed your dialing plans for ASP users?

Software Release: 5E9(1)

Required Field.

Default: N

Valid Entries: Y, N

(5523)

OFFICE DATA ADMINISTRATION
ODA OPTIONS

*1. KEY 0

2. HUNDREDS GROUP SM ROUTING ASSIGNMENT _____

#3. MULTIWAY 3WAY CONSTRUCTED FEATURE _____

4. ASP DEFAULT ROUTE INDEX _____

5. HAVE THE DIALING PLANS FOR ASP
USERS BEEN REVIEWED? N

Figure 1 SAMPLE ODAOPT FORM 5E9(1) AND LATER SOFTWARE RELEASES

**SEC. 5Y: 5725 RECORD
NETWORK CLOCK 2 REFERENCE FORM - NCLKREF**

This section has been moved to Division 8, Section 94.

SEC. 5AC: 5529 RECORD ANNOUNCEMENT APPLICATION SM LIST FORM - ANNAPL

1. GENERAL

The 5529 Record is available with 5E4(2) and later Software Releases.

This record is used to enter the SMs (Switching Modules) where the DSU2-RAFs (Digital Service Unit Model 2 - Recorded Announcement Function) reside as well as the type of application announcements supported by that DSU2-RAF.

- **NOTE:** The specific APPLICATION must be entered before Standard Input Data is provided by ODA for the associated ANNHD form (5531 Record), ANNTR form (5533 Record), and/or ANNDG form (5532 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control group Number and the Office Name on each record.

2.2 * APPLICATION

Description: Enter the type of application which corresponds to an SM.

An entry of "LASS" is necessary to use the Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback) Secured Feature Announcements. Refer to Division 2, Section 4A for details.

Required Field.

Valid APPLICATION Entries	
Entry	Definition
2LEVEL or 2	Software Release: 5E7 and later. 2-Level COT and AC (Customer Originated Trace and Automatic Callback).
ACSR or A	Software Release: 5E5 and later. Automatic Customer Station Rearrangement.
ASP or AS	Software Release: 5E8 and later. ASP (Advanced Services Platform)
L[2 - 7]	Software Release: 5E9(1) and later. The OSPS Non-English Application type used to map the English phrase ID to the non-English phrase ID. L2 - L7 are defined on the LANGTBL (5483-2 Record) and correspond to the non-English language designated by the DISPLAY ID field.
LASS or L	Software Release: 5E6 and later. LASS (Local Area Signaling Services) Selective Features Screen List Editing.
NPA_SP	Software Release: 5E13 and later. Numbering Plan Area Split Announcement.
OSPSDA or D	Software Release: 5E4(2) and later. OSPS Directory Assistance.
OSPSTA or T	Software Release: 5E4(2) and later. OSPS Toll and Assistance.
RAS or R	Software Release: 5E5 and later.

VARRAF	Remote Access Service.
	Software Release: 5E13 and later.
	Variant Recorded Announcements Function

Data Rules:

For 5E8 and later, if at least one ANNAPL form has an APPLICATION that is not

- "OSPSDA"
- "OSPSTA"
- "L2 - 6"

then at least one EQIM form must have OSPS PM set to "N".

For 5E11 and later, when APPLICATION does not equal "2LEVEL", "ASP", "LASS", "TACCT", (for 5E13 and later) "NPA_SP", or "VARRAF", then at least one ANNHD form (5531 Record), ANNDG form (5532 Record), and the ANNTR form (5533 Record) must be submitted for the same announcement application.

For 5E13 and later, when APPLICATION is "2LEVEL", "LASS", or "NPA_SP", at least one ANNHD form (5531 Record) and ANNDG form (5532 Record) must be submitted for that APPLICATION.

- **WARNING:** For 5E13 and later, when APPLICATION is "OSPSDA", "OSPSTA", "RAS", "ACSR", "LASS", "2LEVEL", "ASP", or "NPA_SP", there must be one TKGRP form (5202 Record) with a corresponding SVC GRP value listed in the following table.

APPLICATION ENTRY	TKGRP FORM SVC GRP ENTRY
OSPSDA	DA
OSPSTA	ACCS or COIN
RAS	RAS
ACSR	ACSR or RAS
LASS	RAS
2LEVEL	RAS
ASP	ASP
NPA SP	RAS

2LEVEL - For 5E7 and later, if the APPLICATION is "2LEVEL", then at least one associated ANNHD form and one ANNDG form must exist.

ACSR / RAS - For 5E5 and later, if the APPLICATION is "ACSR" or "RAS", then at least one associated ANNHD form (5531 Record), ANNTR form (5533 Record), and ANNDG form (5532 Record) must be entered.

ASP

For 5E6 and later, if the APPLICATION is "ASP", then at least one associated ANNHD form (5531 Record) must exist. Associated ANNTR forms (5533 Record) may exist. No associated ANNDG forms (5532 Record) will exist.

LASS

For 5E6 and later, if the APPLICATION is "LASS", then at least one associated ANNHD form and one ANNDG form must exist.

OSPSDA / OSPSTA

For 5E7 and later, if APPLICATION is "OSPSDA" or "OSPSTA", then OSPS PSM must be "Y" on at least one EQIM form.

VARRAF

For 5E13 and later, when APPLICATION is "VARRAF" at least one ANNHD form (5531 Record) must be

submitted for the same announcement application.

2.3 LOG UPDATE

Description: This field is used only by Recent Change.

Software Release: 5E6 and later

2.4 SWITCHING MODULES

Description: Enter the 3-digit SMs.

Valid Entries: 1 - 192

Data Rules:

The list of SMs must contain at least one entry. Each SM in the list must be unique. Up to 25 SMs may be used per application.

For 5E8 and later, if a RAF on an SM is defined on the EQRA form, it must be assigned to an application on an ANNAPL form. Also, an entry in this field must have a RAF on that SM defined on an EQRA form.

annapl	5ESS Switch				—
(5529)	OFFICE DATA ADMINISTRATION				
	ANNOUNCEMENT APPLICATION SM LIST				
*1. APPLICATION OSPSDA		LOG UPDATE			
2. SWITCHING MODULES					
row SM	row SM	row SM	row SM	row SM	
1 036	6 —	11 —	16 —	21 —	
2 112	7 —	12 —	17 —	22 —	
3 118	8 —	13 —	18 —	23 —	
4 —	9 —	14 —	19 —	24 —	
5 —	10 —	15 —	20 —	25 —	

Figure 1 SAMPLE ANNAPL FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 5AD: 5530 RECORD MSU/MMSU SCAN POINT ASSIGNMENT FORM - MSUSP

1. GENERAL

The 5530 Record is applicable to 5E2 and later Software Releases, and is used to define the MSU/MMSU (Metallic Service Unit/Modular Metallic Service Unit) Scan Points.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * MSU/MMSU SCAN POINT

Description: Enter the MSU/MMSU Scan Point Number. Refer to Division 8, Section 1 for procedures to obtain these assignments.

This is a 9-digit number in the following format.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-48
			(CM1)
			1-192
			(CM2)
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
			(Modular MSU)
Scan Point Number	SPN	XX	00-31

Required Field.

Valid Entries: 9 digits

Data Rules:

The value must be unique within the 5ESS Switch.

The pack must be defined on an EQMSP or an EQMMSP form (5750 Record) with TYPE set to "SCAN".

2.3 SCAN POINT TYPE

Description: Enter the Scan Point Type.

Required Field.

Valid SCAN POINT TYPE Entries	

Entry	Definition
BDOCPWR	Broadcast Dynamic Overload Control Power
MISC	Miscellaneous Alarm
MSUPWR	MSU Power
NMFPWR	Network Management Frame Power
R13A	13A Recorded Announcement and 14A Recorded Announcement

Data Rules:

For 5E3 and later, if this field is "R13A", then "MJOP" or "MNOP" are the only valid entries for NORMAL STATE.

2.4 ACTION

Description: Enter the Action to be taken by the 5ESS Switch during a failure.

Required Field.

Valid ACTION Entries	
Entry	Definition
IGN	Ignore; no action of any type is to be taken.
REP	Report a failure. A message will be printed at the Master Control Center.
CON	Condition. When "CON" is entered, the associated line or trunk will be taken out of service. Under normal conditions, only R13A scan points may require a value of "CON" to allow conditioning of 13A and 14A announcement unit ports.

2.5 NORMAL STATE

Description: Enter the type of facility assigned to this alarm.

Required Field.

Valid NORMAL STATE Entries	
Entry	Definition
MJOP	Major Alarm. Scan Point normally open (unsaturated).
MJCL	Major Alarm. Scan Point normally closed (saturated).
MNOP	Minor Alarm. Scan Point normally open (unsaturated).
MNCL	Minor Alarm. Scan Point normally closed (saturated).
MAJGA	Major Group Alerting circuit. This feature provides a means of alerting a group or several groups of subscribers for the purpose of disseminating an alert message.
MINGA	Minor Group Alerting circuit.
ANCB	Analog channel bank.
DTCB	Digital channel bank.
PG	Pair gain.
SLC	Subscriber line concentrator.

2.6 IN USE

Description: Is this Scan Point operational?

Valid Entries: Y, N

Data Rules:

For 5E8 and later, this field can be entered only for SCAN POINT TYPEs "MISC" and "R13A"; for all other types it must be blank.

2.7 DUPLEX SCAN POINT

Description: Scan Points may be duplicated for certain Circuit Types. If this is a Duplex Scan Point, enter the

MSU/MMSU Duplex Scan Point Number. If it is a Simplex Scan Point, leave this field blank.

Refer to Division 8, Section 1 for procedures to obtain these assignments.

The field consists of a 9-digit number in the following format.

SCAN POINT NUMBER			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-48
			(CM1)
			1-192
Metallic Service Unit	MSU		(CM2)
Service Group	SVG	X	0-1
Board	BRD	XX	00-15
			(Regular MSU)
			00-31
Scan Point Number	SPN	XX	(Modular MSU)
			00-31

Valid Entries: 9 digits

Data Rules:

If a value is entered, the Service Group (fifth digit) must not be the same as the Service Group (fifth digit) in the MSU/MMSU SCAN POINT value.

If a value is entered, the SM (first three digits) must be the same as the SM (first three digits) in the MSU/MMSU SCAN POINT value.

2.8 SIDE

Description: Enter the Scan Point side.

Valid Entries: 0 or 1

Data Rules:

If the SCAN POINT TYPE is "BDOCPWR", "MSUPWR" OR "NMFPWR", a value must be entered in this field; otherwise leave this field blank.

2.9 LABEL

Description: Enter the name of the alarm as it should appear on the MCC (Master Control Center).

Valid Entries: 5E9(2) and earlier: 11 characters

- 5E10 and later: 25 characters

Data Rules:

A value must be entered if the SCAN POINT TYPE is "R13A" or "MISC"; otherwise leave this field blank.

PORT CONDITIONING

The following fields (Section 2.10 - Section 2.14) are used to describe the port which the scan point conditions. These fields are used only when ACTION is equal to "CON".

2.10 TN

Description: Enter the Telephone Number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and

X is 0 - 9

Data Rules:

The TN entered here must be defined on a LINE form (5109 Record). If a value is entered in this field, then MLHG/TERM and TGN/MEMB must be blank.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the MSUSP form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.11 MLHG

Description: Enter the Multi-Line Hunt Group Number.

Valid Entries: For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The MLHG/TERM entered must be defined on an MLHLN form (5111 Record). If a value is entered in this field, then the TERM field must also be entered and TN, TGN and MEMB must be blank.

2.12 TERM

Description: Enter the MLHG Terminal Number.

Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

2.13 TGN

Description: Enter the Trunk Group Number.

Valid Entries:

For 5E10 and earlier: 1 - 2000

For 5E11 and later: 1 - 4000

Data Rules:

A value is allowed for TGN to describe the port, which the scan point conditions, only if ACTION is equal to "CON". If a value is entered in this field, then the MEMB field must also be entered and the TN, MLHG and TERM must be blank. The TGN/MEMB entered must be defined on a TRUNK form (5204 Record).

2.14 MEMB

Description: Enter each Member Number in the Trunk Group.

Valid Entries: 0 - 1951

```

msusp                      5ESS Switch          —
(5530)                     OFFICE DATA ADMINISTRATION
                             MSU/MMSU SCAN POINT ASSIGNMENT

```

```

* 1. MSU/MMSU SCAN POINT 005011622
  2. SCAN POINT TYPE      R13A
  3. ACTION                CON
  4. NORMAL STATE         MJOP
  5. IN USE               Y
  6. DUPLEX SCAN POINT    _____
  7. SIDE                 —
  8. LABEL                PART DAIL

```

PORT CONDITIONING

```

  9. TN _____      10. MLHG _____      12. TGN  0004
                        11. TERM  _____      13. MEMB 0001

```

Figure 1 SAMPLE MSUSP FORM 5E11 AND EARLIER SOFTWARE RELEASES

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msusp                      5ESS Switch          —
(5530)                     OFFICE DATA ADMINISTRATION
                             MSU/MMSU SCAN POINT ASSIGNMENT

```

*1. MSU/MMSU SCAN POINT _____	PORT CONDITIONING
#2. SCAN POINT TYPE _____	9. TN _____
#3. ACTION _____	10. MLHG _____
#4. NORMAL STATE _____	11. TERM _____
5. IN USE _____	12. TGN _____
6. DUPLEX SCAN POINT _____	13. MEMB _____
7. SIDE _____	
8. LABEL _____	

Figure 2 SAMPLE MSUSP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5AE: 5531 RECORD ANNOUNCEMENT HEADER PHRASE LIST FORM - ANNHD

1. GENERAL

The 5531 Record is available with 5E3 and later Software Releases. This record lists the phrases, in the required order, to be associated with an announcement header. An announcement header enables a group of phrases (comprising an announcement) to be accessed with a "header identification number."

The header identification is mapped to a set of phrase identification commands which specify either to concatenate a phrase identification or to insert a digit string at that point in the announcement. For example, a typical announcement header is "The number is . . . ," followed by a directory number given twice in succession. The "language" portion is a phrase or phrases, which are ordered in the PHRASE list on this form. Each PHRASE is defined on a PHRASE form (5534 Record). The pattern for the Directory Number is defined in an ANNDG form (5532 Record).

NOTE: The specific APPLICATION must be entered on the associated ANNAPL form (5529 Record) before the default input data will be provided for this form.

1.1 Default Data

For 5E5 and later Software Releases, a standard set of default data is provided by the ODA system. Normally, no data need be entered, with the exception that customers using customized packs may need to enter data manually. They should consult customer support.

1.2 Limited 2-Level COT/AC Secured Feature

To use the Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback) Secured Feature Announcements, an ANNHD form with APPLICATION equal to "LASS" must exist or be entered. In addition, new HEADER ID values of 249 through 255 must be entered by the office through RC or ODA, or via an SU/BWM script (See Figure 2). Refer to Division 2, Section 4A for details.

1.3 Recent Change View

The corresponding Recent Change view for this form is 8.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * HEADER ID

Description: Enter a Header Identification number.

Valid Entries:

For 5E3 - 5E9(1): 1 - 255

For 5E9(2) and later: 1 - 137,071

Data Rules:

For 5E5 and later, Header IDs for the application "OSPSTA" that are not included in the standard input data provided for OSPS TA offices should be manually entered. Customers using customized packets should consult customer support.

For RAF services, if the HEADER ID is for an OSPS Customized Announcement Circuit Pack, the MICRO CODE field for the Customized pack should be entered on the EQRAP form (5822 Record) with an entry of "5D155xyy" (where x is alphabetic and yy is numeric), and the corresponding APPLICATION entry on the EQRAP form should be equal to "OSPS-TA". Also, the BRAND PHRASE field on the OSPSOPT Form (5424 Record) must be set to "Y".

2.3 * APPLICATION

Description: Enter the type of application which corresponds to the header announcement.

Valid APPLICATION Entries	
Entry	Definition
2LEVEL or 2	Software Release: 5E7 and later. 2-Level COT and AC (Customer Originated Trace and Automatic Callback).
ACSR or AC	Software Release: 5E6 and later. Automatic Customer Station Rearrangement.
ASP or AS	Software Release: 5E8 and later. ASP (Advanced Services Platform)
L[2 - 7]	Software Release: 5E9(1) and later. The OSPS Non-English Application type used to map the English phrase ID to the non-English phrase ID. L2 - L7 are defined on the LANGTBL form (5483-2 Record) and correspond to the non-English language designated by the DISPLAY ID field.
LASS or LA	Software Release: 5E6 and later. LASS Selective Features Screen List Editing. Also used by Limited 2-Level COT/AC.
NPA_SP	Software Release: 5E13 and later. Numbering Plan Area Split Announcement.
OSPSDA or D	Software Release: 5E3 and later. OSPS Directory Assistance.
OSPSTA or T	Software Release: 5E4(2) and later. OSPS Toll and Assistance.
RAS or R	Software Release: 5E5 and later. Remote Access Service.
TACCT	Software Release: 5E11 and later. TDX (Toll Digital Exchange) account code.
VARRAF	Software Release: 5E13 and later. Variant Recorded Announcements Function

Data Rules:

2LEVEL:

For 5E7 and later, if the APPLICATION is "2LEVEL", then at least one associated ANNAPL form and one ANNDG form must exist.

ACSR or RAS:

For 5E5 and later, if the APPLICATION is "ACSR" or "RAS", an associated ANNAPL form (5529 Record), ANNTR form, and ANNDG form must be entered.

ASP:

For 5E6 and later, if the APPLICATION is "ASP", then an associated ANNAPL form must exist and an associated ANNTR forms may exist. No associated ANNDG forms will exist. If the APPLICATION is "LASS", then an associated ANNAPL form, and an ANNDG form must exist.

NPA_SP:

For 5E13 and later, when APPLICATION is "NPA_SP", the HEADER ID must be "1".

OSPSTA - If an announcement HEADER ID of 39 or 40 is entered with APPLICATION equal to "OSPSTA", then the BRAND PHRASE field on the OSPSOPT form (5424 Record) must be set to "Y". In addition, for 5E9(1) and later, SFID 15 on the SFSYS form (5713-1 Record) is set to "Y".

For 5E4(2) and later, if the APPLICATION is "OSPSDA" or "OSPSTA", then an associated ANNDG form (5532 Record), ANNTR form (5533 Record) and an ANNAPL form (5529 Record) must exist.

For 5E9(1) and later, if APPLICATION is "OSPSTA" and a phrase value in the PHRASE LIST is in the range

- 14000 - 14999, the following must be true:
 - All SMs listed on the ANNAPL form with an APPLICATION of "OSPSTA" must have at least one associated EQRAP form (the SM values match).
 - This associated EQRAP form must have an APPLICATION of "OSPS-TA" and must have
 - for 5E9(1) only, a MICROCODE with the first 7 characters equal to 5D155A1 entered on PACK 2 or PACK 3.
 - or
 - for 5E9(2) and later, a MICROCODE of 5D155A10 entered on PACK 2 or PACK 3.

For 5E10 and later, this does not apply to SAS.
- 290 through 312, the following must be true:
 - All SMs listed on the ANNAPL form with an APPLICATION of "OSPSTA" must have at least one associated EQRAP form (the SM values match).
 - This associated EQRAP form must have an APPLICATION of "OSPS-TA" and must have
 - for 5E9(1) only, a MICROCODE with the first 7 characters equal to 5D172A2 or 5D172A3 entered on PACK 2 or PACK 3
 - or
 - for 5E9(2) and later, a MICROCODE of 5D172A20 or 5D172A30 entered on PACK 2 or PACK 3.

For 5E10 and later, this does not apply to SAS.
- 256 through 289, the following must be true:
 - All SMs listed on the ANNAPL form with an APPLICATION of "OSPSTA" must have at least one associated EQRAP form (the SM values match).
 - This associated EQRAP form must have an APPLICATION of "OSPS-TA" and for 5E9(1) only, must have a MICROCODE with the first 7 characters equal to 5D172A1, 5E172A2, or 5D172A3 entered on PACK 2 or PACK 3.

or

for 5E9(2) and later must have a MICROCODE of 5D172A10, 5D172A20 or 5D172A30 entered on PACK 2 or PACK 3.

For 5E10 and later, this does not apply to SAS.

- 313 through 324, the following must be true:
 - All SMs listed on the ANNAPL form with an APPLICATION of "OSPSTA" must have at least one associated EQRAP form (the SM values match).
 - This associated EQRAP form must have an APPLICATION of "OSPS-TA" and must have
 - for 5E9(1) only a MICROCODE with the first seven characters equal to 5D172A3 entered on PACK 2 or PACK 3.

or

for 5E9(2) and later, a MICROCODE of 5D172A30 entered on PACK 2 or PACK 3.

For 5E10 and later, this does not apply to SAS.

For 5E9(1) and later, if APPLICATION is "OSPSTA" and HEADER ID is 171, then:

- the PHRASE ID list must contain PHRASE ID 94 only once.
- the PHRASE ID preceding PHRASE ID 94 must be 6, 29, 34, or 39 - 46.
- if the PHRASE ID preceding PHRASE ID 94 is 6, then the phrase preceding PHRASE ID 6 must be in the range 39 - 45.
- if OSPS TA is set to "Y" on the OSPSOPT form, then "OSPSTA" announcement header 171 should have a disconnect warning time interval (specified by the PHRASE ID value) which is equal to the (CAS CARD LIMIT) WARN TIME on the OSPSOPT form. This means that the PHRASE ID value which precedes PHRASE ID 94 (or the first and second PHRASE ID values preceding PHRASE ID 94) must be a number which represents a time value equal to that of WARN TIME.

The actual time value in seconds can be found using the PHRASE ID in the table below.

PHRASE ID Values		
FIRST PRECEDING PHRASE ID	SECOND PRECEDING PHRASE ID	TIME VALUE
29		ten
34		fifteen
39		twenty
40		thirty
41		forty
42		fifty
43		sixty
44		seventy
45		eighty
46		ninety

6	39	twenty-five
6	40	thirty-five
6	41	forty-five
6	42	fifty-five
6	43	sixty-five
6	44	seventy-five
6	45	eighty-five

VARRAF:

For 5E13 or later:

when APPLICATION is "VARRAF", PHRASE_LIST.PHR must be 32768 - 33407.

when APPLICATION is "VARRAF", PHRASE_LIST for PHRASE ID must be defined on the PHRASE form (5534 Record) with APPLICATION set to "VARRAF".

2.4 DURATION

Description: The DURATION field specifies the duration of the announcement in seconds. This is a read only, verify field on Recent Change view 8.61. It cannot be entered on the ODA form or the Recent Change view. The values in this field are in the range of 0 - 7200 seconds.

The calculated duration of the commands/phrases on the ANNHD input form cannot exceed 7200 seconds. The duration is calculated from the PHRASE input form records.

2.5 PHRASES

Enter the phrase numbers for each phrase header.

Valid PHRASE Entries	
Entry	Description
0	Software Release: 5E3 - 5E9(1). Defines end-of-phrase list.
1 - 46	Digit string-related phrase IDs (refer to the PHRASE form).
47 - 16383	Application-defined phrase IDs.
16385	Command - insert a digit string.
16386	Command - repeat the previous digit string.
16387	Software Release: 5E7 and later. Command - date of last incoming call.
16388	Software Release: 5E7 and later. Command - time of last incoming call.
16389	Software Release: 5E7 and later. Command - number of dollars and cents.
16500	Software Release: 5E4(2) and later. Command - insert a Credit digit string.
16501	Software Release: 5E4(2) and later. Command - insert a Charge Due digit string.
16502	Software Release: 5E4(2) and later. Command - insert a Call Duration digit string.
16600 - 65530	Software Release: 5E9(2) and later. Application-defined phrase IDs.

Data Rules:

For 5E3 - 5E9(1), at least two entries in this list are required. The last (and only the last) phrase number must be 0. For 5E9(1) and earlier a maximum of 50 phrases may be used. For 5E9(2) a maximum of 67 phrases may be used, and at least one phrase is required.

Each command/phrase defined on this form for a HEADER ID must be defined in the PHRASE ID field on a PHRASE form.

APPLICATION	HEADER ID	PHRASES							SOFTWARE RELEASE
2LEVEL	001	00104	00105	00107	00108	00111	00112	00114	5E7 and later
		00027	00116	00098	00000				
2LEVEL	002	00104	00105	00107	00108	00109	16387	16388	5E7 and later
		00111	00112	00114	00115	00027	00116	00098	
		00000							
2LEVEL	003	00104	00105	00177	16385	00028	00027	16386	5E7 and later
		00111	00112	00114	00115	00027	00116	00098	
		00000							
2LEVEL	004	00104	00105	00177	16385	00027	00028	16386	5E7 and later
		00109	16387	16388	00111	00112	00114	00115	
		00027	00116	00098	00000				
2LEVEL	005	00104	00105	00177	00171	16385	00028	00027	5E7 and later
		00111	00112	00114	00115	00027	00116	00098	
2LEVEL	006	00104	00105	00177	00171	16385	00028	00027	5E7 and later
		16386	00109	16387	16388	00111	00112	00114	
		00115	00116	00098	00000				
2LEVEL	007	00119	00120	00115	00027	00116	00098	00000	5E7 and later
2LEVEL	008	00104	00122	00124	16389	00131	00114	00115	5E7 and later
		00116	00098	00000					
2LEVEL	009	00104	00122	00117	00131	00114	00115	00027	
		00098	00000						
2LEVEL	010	00132	00115	00027	00116	00098	00000		5E7 and later
2LEVEL	011	00065	00118	00168	00028	00028	00028	00000	5E7 and later
ACSR	001	00282	16385	00000					5E5 and later
ACSR	003	00257	00261	00000					5E5 and later
ACSR	004	00280	00258	00000					5E5 and later
ACSR	005	00263	00256	00000					5E5 and later
ACSR	006	00273	16385	00000					5E5 and later
ACSR	008	00268	00256	00000					5E5 and later
ACSR	009	00065	00277	00000					5E5 and later
ACSR	012	00070	16385	00000					5E5 and later
ACSR	015	00276	00000						5E5 and later
ACSR	017	00065	00278	00000					5E5 and later
ACSR	018	00065	00283	00258	00000				5E5 and later
ACSR	020	00274	16385	00000					5E5 and later
ACSR	021	00275	16385	00000					5E5 and later
ACSR	023	00257	00260	00000					5E5 and later
ACSR	025	00269	00000						5E5 and later
ACSR	026	00281	00257	00266	00000				5E5 and later
ACSR	027	00281	00257	00266	00284	16385	00000		5E5 and later
ACSR	028	00272	16385	00000					5E5 and later
ACSR	029	00287	16385	00000					5E5 and later
ACSR	034	00280	00393	00395	00000				5E7 and later
ACSR	036	00396	00397	00256	00000				5E7 and later
ACSR	037	00398	16385	00399	00000				5E7 and later
ACSR	038	00065	00398	16385	00400	00000			5E7 and later
ACSR	041	00403	16385	00404	00000				5E7 and later
ACSR	042	00065	00405	00000					5E7 and later
ACSR	043	00065	00406	00000					5E7 and later
ACSR	045	00281	00257	00408	00000				5E7 and later
LASS	001	00303	00028	00323	00000				5E6 and later
LASS	002	00291	00028	00028	00028	00324	00326	00291	5E6 and later
LASS	003	00324	00326	00291	00000				5E6 and later
LASS	004	00383	00289	00312	00296	16385	00290	00000	5E6 and later
LASS	005	00383	00289	00312	00384	00310	00290	00000	5E6 and later
LASS	006	00383	00289	00312	16385	00290	00000		5E6 and later
LASS	007	00316	16385	00328	00000				5E6 and later
LASS	008	00303	00316	00329	00000				5E6 and later
LASS	009	00316	16385	00328	00000				5E6 and later
LASS	010	00316	16385	00328	00000				5E6 and later
LASS	011	00330	00313	00290	00000				5E6 and later
LASS	012	00331	00304	00337	16385	00000			5E6 and later

LASS	013	00331	00304	00336	00000				*5E6 and later
LASS	014	00331	00305	00000					*5E6 and later
LASS	015	00331	00304	00000					*5E6 and later
LASS	016	00336	00028	00000					*5E6 and later
LASS	017	00028	00028	00028	00028	00340	00290	00000	5E6 and later
LASS	018	00306	00308	00000					5E6 and later
LASS	019	00303	00341	00342	00313	00290	00000		5E6 and later
LASS	020	00295	00344	00314	00290	00000			5E6 and later
LASS	021	00295	00344	00314	00290	00000			5E6 and later
LASS	022	00345	00314	00290	00000				5E6 and later
LASS	023	00303	00306	00308	00313	00290	00000		5E6 and later
LASS	024	00346	00000						5E6 and later
LASS	025	00315	00296	16385	00000				*5E6 and later
LASS	026	00347	00296	16385	00000				*5E6 and later
LASS	027	00337	16385	00317	00298	00318	00299	00314	5E6 and later
		00000							
LASS	028	00337	16385	00317	00298	00318	00299	00314	5E6 and later
		00000							
LASS	029	00348	16385	00379	00298	00318	00299	00314	5E6 and later
		00000							
LASS	030	00303	00349	00350	00000				*5E6 and later
LASS	031	00303	00351	00313	00290	00000			5E6 and later
LASS	032	00319	00321	00026	00320	00322	00026	00352	5E6 and later
		00353	00026	00354	00298	00026	00000		
LASS	033	00355	00356	00380	00361	00374	00299	00026	5E6 and later
		00290	00000						
LASS	034	00355	00356	00381	00361	00374	00299	00026	5E6 and later
		00290	00000						
LASS	035	00303	00362	00363	00000				*5E6 and later
LASS	036	00303	00364	00290	00000				5E6 and later
LASS	037	00365	00366	00028	00319	00295	00321	00290	5E6 and later
LASS	038	00338	00298	00339	00299	00314	00290	00000	*5E6 and later
LASS	039	00338	00298	00339	00299	00314	00290	00000	*5E6 and later
LASS	040	00306	00308	00369	00370	00028	00028	00028	5E6 and later
LASS	041	00303	00376	00000					5E6 and later
LASS	042	00303	00306	00308	00313	00290	00000		5E6 and later
LASS	043	00306	00382	00311	00312	00026	00000		*5E6 and later
LASS	044	00385	00312	16385	00290	00000			5E6 and later
LASS	045	00385	00312	00296	16385	00290	00000		5E6 and later
LASS	046	00385	00312	00290	00000				5E6 and later
LASS	047	00315	00310	00000					*5E6 and later
LASS	048	00292	00358	00312	00369	00370	00028	00028	5E6 and later
		00000							
LASS	049	00307	16385	00311	00312	00369	00370	00028	5E6 and later
		00028	00000						
LASS	050	00292	00358	00312	00313	00290	00000		5E6 and later
LASS	051	00307	16385	00311	00312	00313	00290	00000	5E6 and later
LASS	052	00347	00310	00000					*5E6 and later
LASS	053	00315	16385	00000					*5E6 and later
LASS	054	00292	00357	00312	00369	00370	00028	00028	5E6 and later
		00000							
LASS	055	00307	16385	00308	00369	00370	00028	00028	5E6 and later
		00000							
LASS	056	00292	00357	00387	00000				5E6 and later
LASS	057	00307	16385	00308	00000				5E6 and later
LASS	058	00347	16385	00000					*5E6 and later
LASS	059	00336	00317	00298	00339	00299	00314	00290	*5E6 and later
LASS	060	00336	00317	00298	00339	00299	00314	00290	*5E6 and later
LASS	061	00377	16385	00000					*5E6 and later
LASS	062	00377	00296	16385	00000				*5E6 and later
LASS	063	00293	16385	00000					*5E6 and later
LASS	064	00293	00296	16385	00000				*5E6 and later
LASS	065	00026	00378	00321	00300	00326	00000		5E6 and later
LASS	066	00291	00028	00028	00028	00325	00327	00291	5E6 and later
LASS	067	00325	00327	00291	00000				5E6 and later
LASS	068	00333	00304	00337	16385	00000			5E6 and later
LASS	069	00333	00304	00336	00000				*5E6 and later
LASS	070	00333	00305	00000					*5E6 and later
LASS	071	00333	00304	00000					*5E6 and later

LASS	072	00336	00028	00000					*5E6 and later
LASS	073	00332	00304	00348	16385	00000			5E6 and later
LASS	074	00332	00305	00000					*5E6 and later
LASS	075	00332	00304	00000					*5E6 and later
LASS	076	00334	00305	00000					*5E6 and later
LASS	077	00334	00304	00000					*5E6 and later
LASS	078	00335	00305	00000					*5E6 and later
LASS	079	00335	00304	00000					*5E6 and later
LASS	080	00303	00367	00313	00290	00000			5E6 and later
LASS	081	00303	00368	00313	00290	00000			5E6 and later
LASS	082	00307	16385	00308	00309	00358	00369	00370	5E6 and later
		00028	00028	00000					
LASS	083	00307	16385	00308	00000				5E6 and later
LASS	084	00309	16385	00311	00369	00370	00028	00028	5E6 and later
		00000							
LASS	085	00307	16385	00308	00309	00391	00000		5E6 and later
LASS	086	00307	16385	00308	00000				5E6 and later
LASS	087	00309	16385	00386	00000				5E6 and later
LASS	088	00359	00028	00371	00372	00373	00299	00314	5E6 and later
		00000							
LASS	089	00360	00028	00371	00372	00373	00299	00314	5E6 and later
		00000							
LASS	090	00303	00375	00313	00290	00000			5E6 and later
LASS	091	00297	00388	00000					5E6 and later
LASS	092	00297	00390	00000					5E6 and later
LASS	093	00297	00389	00000					5E6 and later
LASS	094	00291	00028	00028	00028	00324	00291	00000	5E6 and later
LASS	095	00324	00291	00000					5E6 and later
LASS	096	00303	00341	00343	00313	00290	00000		5E6 and later
LASS	097	00319	00302	00026	00320	00301	00026	00352	5E6 and later
		00353	00026	00354	00298	00026	00000		
LASS	098	00365	00366	00028	00319	00302	00290	00000	5E6 and later
LASS	099	00026	00000						*5E6 and later
LASS	100	00026	00378	00302	00294	00300	00000		5E6 and later
LASS	101	00291	00028	00028	00028	00325	00291	00000	5E6 and later
LASS	102	00325	00291	00000					5E6 and later
LASS	110	00303	00323	00000					5E7 and later
LASS	111	00303	00323	00026	00000				5E7 and later
LASS	112	00441	00326	00026	00442	00443	00326	00026	5E7 and later
		00290	00000						
LASS	113	00383	00289	00387	00296	16385	00000		5E7 and later
LASS	114	00412	00289	00312	00384	00310	00000		5E7 and later
LASS	115	00383	00289	00387	16385	00000			5E7 and later
LASS	116	00412	00413	16385	00414	00026	00000		5E7 and later
LASS	117	00303	00415	00329	00000				5E7 and later
LASS	118	00412	00413	16385	00414	00026	00000		5E7 and later
LASS	119	00412	00413	16385	00414	00026	00000		5E7 and later
LASS	120	00330	00000						5E7 and later
LASS	121	00330	00026	00000					5E7 and later
LASS	122	00331	00304	00337	16385	00000			5E7 and later
LASS	123	00028	00028	00028	00028	00416	00417	00418	5E7 and later
		00000							
LASS	124	00028	00028	00028	00028	00416	00418	00417	5E7 and later
		00290	00000						
LASS	125	00306	00382	00308	00000				5E7 and later
LASS	126	00303	00420	00342	00000				5E7 and later
LASS	127	00295	00344	00294	00321	00314	00290	00000	5E7 and later
LASS	128	00295	00344	00294	00321	00314	00290	00000	5E7 and later
LASS	129	00345	00294	00321	00314	00290	00000		5E7 and later
LASS	130	00303	00306	00308	00000				5E7 and later
LASS	131	00346	00421	00028	00000				5E7 and later
LASS	132	00346	00028	00000					5E7 and later
LASS	133	00315	00296	16385	00026	00000			5E7 and later
LASS	134	00347	00296	16385	00026	00000			5E7 and later
LASS	135	00337	16385	00317	00298	00318	00299	00314	5E7 and later
		00000							
LASS	136	00337	16385	00317	00298	00318	00299	00314	5E7 and later
		00000							
LASS	137	00348	16385	00379	00422	00423	00424	00314	5E7 and later

		00000							
LASS	138	00303	00351	00000					5E7 and later
LASS	139	00303	00351	00026	00000				5E7 and later
LASS	140	00359	00026	00319	00321	00026	00425	00322	5E7 and later
		00354	00422	00026	00374	00424	00026	00314	
		00000							
LASS	141	00360	00026	00319	00321	00026	00425	00322	5E7 and later
		00354	00422	00026	00374	00424	00026	00314	
		00000							
LASS	142	00303	00364	00000					5E7 and later
LASS	143	00426	00427	00028	00319	00295	00321	00290	5E7 and later
LASS	144	00306	00308	00369	00428	00419	00028	00028	5E7 and later
		00000							
LASS	145	00303	00412	00429	00000				5E7 and later
LASS	146	00303	00412	00429	00026	00000			5E7 and later
LASS	147	00385	00387	00000					5E7 and later
LASS	148	00315	00310	00026	00000				5E7 and later
LASS	149	00292	00358	00411	00369	00428	00419	00028	5E7 and later
		00028	00000						
LASS	150	00307	16385	00311	00411	00369	00428	00419	5E7 and later
		00028	00028	00000					
LASS	151	00292	00358	00411	00000				5E7 and later
LASS	152	00307	16385	00311	00411	00000			5E7 and later
LASS	153	00315	16385	00026	00000				5E7 and later
LASS	154	00292	00357	00411	00369	00428	00419	00028	5E7 and later
		00028	00000						
LASS	155	00307	16385	00308	00369	00428	00419	00028	5E7 and later
		00028	00000						
LASS	156	00292	00357	00411	00430	00026	00000		5E7 and later
LASS	157	00307	16385	00308	00430	00026	00000		5E7 and later
LASS	158	00347	16385	00026	00000				5E7 and later
LASS	159	00431	16385	00000					5E7 and later
LASS	160	00431	00296	16385	00000				5E7 and later
LASS	161	00378	00321	00443	00432	00326	00028	00028	5E7 and later
LASS	162	00433	00327	00026	00434	00327	00026	00435	5E7 and later
		00026	00374	00424	00026	00314	00290	00000	
LASS	163	00333	00304	00337	16385	00000			5E7 and later
LASS	164	00332	00304	00348	16385	00000			5E7 and later
LASS	165	00028	00028	00028	00028	00313	00417	00418	5E7 and later
		00000							
LASS	166	00028	00028	00028	00028	00313	00418	00417	5E7 and later
		00290	00000						
LASS	167	00303	00367	00000					5E7 and later
LASS	168	00303	00367	00026	00000				5E7 and later
LASS	169	00303	00368	00000					5E7 and later
LASS	170	00303	00368	00026	00000				5E7 and later
LASS	171	00307	16385	00308	00309	00391	00369	00428	5E7 and later
		00028	00028	00028	00000				
LASS	172	00307	16385	00308	00000				5E7 and later
LASS	173	00309	16385	00386	00369	00428	00419	00028	5E7 and later
		00028	00000						
LASS	174	00307	16385	00308	00309	00391	00430	00026	5E7 and later
LASS	175	00307	16385	00308	00000				5E7 and later
LASS	176	00309	16385	00386	00430	00026	00000		5E7 and later
LASS	177	00028	00028	00028	00028	00436	00417	00418	5E7 and later
		00000							
LASS	178	00303	00375	00000					5E7 and later
LASS	179	00303	00375	00026	00000				5E7 and later
LASS	180	00441	00026	00442	00443	00026	00314	00290	5E7 and later
LASS	181	00303	00420	00437	00000				5E7 and later
LASS	182	00295	00344	00314	00290	00000			5E7 and later
LASS	183	00295	00344	00314	00290	00000			5E7 and later
LASS	184	00345	00314	00290	00000				5E7 and later
LASS	185	00359	00026	00319	00438	00026	00425	00439	5E7 and later
		00354	00422	00026	00374	00424	00026	00314	
		00000							
LASS	186	00360	00026	00319	00438	00026	00425	00439	5E7 and later
		00354	00422	00026	00374	00424	00026	00314	
		00000							

LASS	187	00426	00427	00028	00319	00438	00290	00000	5E7 and later
LASS	188	00378	00440	00432	00294	00443	00028	00028	5E7 and later
LASS	189	00433	00026	00434	00026	00435	00026	00374	5E7 and later
		00026	00314	00290	00000				
LASS	190	00444	00304						5E16(2) and later
LASS	191	00444	00305						5E16(2) and later
LASS	192	00355	00380	00361	00374	00299	00026	00314	5E16(2) and later
		00290							
LASS	193	00355	00381	00361	00374	00299	00026	00314	5E16(2) and later
		00290							
OSPSTA	001	00052	00030	00026	16385	00028	16386	00028	5E5 and later
		00000							
OSPSTA	002	00052	00031	00026	16385	00028	16386	00028	5E6 and later
		00026	16385	00028	16386	00028	00000		
OSPSTA	003	00052	00046	00028	00027	00000			5E5 and later
OSPSTA	004	00052	00035	00027	00029	00027	16385	00027	5E5 and later
		00000							
OSPSTA	005	00052	00036	00027	00029	00027	16385	00027	5E5 and later
		00000							
OSPSTA	006	00052	00033	00026	16385	00028	16386	00028	5E5 and later
		00000							
OSPSTA	007	00052	00039	00026	16385	00028	16386	00028	5E5 and later
		00000							
OSPSTA	008	00052	00040	00026	16385	00028	16386	00028	5E5 and later
		00000							
OSPSTA	009	00052	00041	00027	00030	00026	16385	00028	5E5 and later
		00028	00027	00000					
OSPSTA	010	00052	00042	00027	00030	00026	16385	00028	5E5 and later
		00028	00027	00000					
OSPSTA	011	00052	00043	00027	00030	00026	16385	00028	5E5 and later
		00028	00027	00000					
OSPSTA	012	00052	00044	00027	00030	00026	16385	00028	5E5 and later
		00028	00027	00000					
OSPSTA	013	00052	00050	00026	16385	00028	00051	00027	5E5 and later
		00028	00027	00000					
OSPSTA	014	00052	00000						5E5 and later
OSPSTA	001	00079	00028	00047	00048	00000			5E5 and later
OSPSTA	002	00047	00049	00028	00050	00000			5E5 and later
OSPSTA	003	00080	00000						5E5 and later
OSPSTA	004	00051	00028	00050	00000				5E5 and later
OSPSTA	005	00052	00000						5E5 and later
OSPSTA	006	00053	00049	00028	00054	00000			5E5 and later
OSPSTA	007	00055	00000						5E5 and later
OSPSTA	008	00051	00028	00056	00000				5E5 and later
OSPSTA	009	00051	00000						5E5 and later
OSPSTA	010	00057	00059	00061	16385	00000			5E5 and later
OSPSTA	011	00057	00060	00061	16385	00000			5E5 and later
OSPSTA	012	00057	00059	00061	00062	00000			5E5 and later
OSPSTA	013	00058	00063	00000					5E5 and later
OSPSTA	014	00058	00064	00000					5E5 and later
OSPSTA	015	00065	00028	00066	00000				5E5 and later
OSPSTA	016	00155	00126	00000					5E5 and later
OSPSTA	017	00068	00069	00071	00000				5E5 and later
OSPSTA	018	00072	00081	00000					5E5 and later
OSPSTA	019	00068	00070	00071	00000				5E5 and later
OSPSTA	020	00072	00082	00000					5E5 and later
OSPSTA	021	00073	00028	00074	00000				5E5 and later
OSPSTA	022	00075	00002	00027	00009	00024	00027	00007	5E5 and later
		00007	00027	00001	00001	00001	00017	00000	
OSPSTA	023	00076	00000						5E5 and later
OSPSTA	024	00077	00000						5E5 and later
OSPSTA	025	00078	00000						5E5 and later
OSPSTA	026	00079	00000						5E5 and later
OSPSTA	027	00138	00139	00141	00142	00028	00134	00148	5E5 and later
		00000							
OSPSTA	028	00138	00140	00141	00143	00028	00134	00136	5E9(1) and later
		00137	00000						
OSPSTA	029	00144	00142	00028	00134	00148	00137	00000	5E5 and later
OSPSTA	030	00144	00143	00028	00134	00136	00137	00000	5E5 and later

OSPSTA	031	00145	00028	00149	00000				5E9(1) and later
OSPSTA	032	00144	00142	00028	00149	00000			5E9(1) and later
OSPSTA	033	00153	00000						5E5 and later
OSPSTA	034	00150	00151	0000					5E9(1) and later
OSPSTA	035	00152	00138	00049	00000				5E5 and later
OSPSTA	036	00152	00064	00000					5E5 and later
OSPSTA	037	00057	00060	00061	00062	00000			5E5 and later
OSPSTA	038	00156	00026	00157	00000				5E5 and later
OSPSTA	039	00079	(logo)	00000					5E7 and later
OSPSTA	040	00079	(logo)	00028	00047	00206	00048	00000	5E7 and later
OSPSTA	041	00051	00028	00066	00000				5E7 and later
OSPSTA	042	00160	00162	00161	00000				5E7 and later
OSPSTA	043	00160	00162	00161	00000				5E7 and later
OSPSTA	044	00212	00028	00051	00000				5E8 and later
OSPSTA	045	00214	00000						5E7 and later
OSPSTA	046	00209	00028	00215	00000				5E7 and later
OSPSTA	047	00215	00000						5E7 and later
OSPSTA	048	00210	00028	00216	00000				5E7 and later
OSPSTA	049	00121	00026	00160	00000				5E7 and later
OSPSTA	050	00079	00028	00047	00048	00000			5E7 and later
OSPSTA	052	00260	00262	00026	00278	00275	00283	00002	5E7 and later
		00026	00285						
OSPSTA	053	00264	00026	00278	00275	00283	00002	00014	5E7 and later
		00285							
OSPSTA	055	00145	00028	00134	00157	00000			5E8 and later
OSPSTA	056	00304	00207	00305	00027	00050	00000		5E8 and later
OSPSTA	057	00138	00290	00305	00027	00134	00148	00137	5E8 and later
OSPSTA	058	00138	00291	00207	00305	00027	00134	00148	5E8 and later
		00000							
OSPSTA	059	00292	00293	00000					5E8 and later
OSPSTA	060	00294	00137	00027	00292	00293	00000		5E8 and later
OSPSTA	063	00144	00142	00027	00298	00299	00300	00301	5E8 and later
		00000							
OSPSTA	064	00074	00027	00299	00300	00302	00303	00000	5E8 and later
OSPSTA	065	00079	00000						5E8 and later
OSPSTA	066	00155	00000						5E8 and later
OSPSTA	088	00144	00142	00028	00210	00000			5E8 and later
OSPSTA	089	00145	00028	00210	00000				5E8 and later
OSPSTA	090	00144	00142	00028	00298	00210	00000		5E8 and later
OSPSTA	091	0295							5E7 and later
OSPSTA	092	00047	00048	00000					5E8 and later
OSPSTA	093	0079	00134	00117	00005	00084	00099	00103	5E7 and later
		00120	00026	00047	00207	00048			
OSPSTA	094	00156	00026	00157					5E7 and later
OSPSTA	095	00145	00028	00134	00157				5E7 and later
OSPSTA	096	00051	00028	00066					5E7 and later
OSPSTA	097	00210	00027	00316	00317	00000			5E9(1) and later
OSPSTA	098	00316	00317	00000					5E9(1) and later
OSPSTA	099	00210	00027	00145	00288	00316	00317	00000	5E9(1) and later
OSPSTA	100	00055	00000						5E9(1) and later
OSPSTA	101	16501	00102	00028	00113	16386	00181	16502	5E6 and later
OSPSTA	102	16501	00102	00028	00028	00113	16386	00119	5E5 and later
OSPSTA	103	00113	16501	00000					5E5 and later
OSPSTA	104	00113	16501	00105	00000				5E5 and later
OSPSTA	105	00121	00122	00126	00000				5E5 and later
OSPSTA	106	00052	00000						5E5 and later
OSPSTA	107	00121	00122	00126	00118	16500	00100	00120	5E5 and later
OSPSTA	108	00052	00118	16500	00100	00120	00000		5E5 and later
OSPSTA	109	16502	00114	00115	00000				5E5 and later
OSPSTA	110	00113	16501	00028	00028	16386	00182	16502	5E6 and later
OSPSTA	111	16501	00102	00028	00028	00118	16500	00100	5E6 and later
		16501	00104	00182	16502	00000			
OSPSTA	112	00124	00028	00113	16501	00028	00028	16386	5E6 and later
		16502	00000						
OSPSTA	113	00124	00028	16501	00102	00028	00028	00118	5E6 and later
		00100	00113	16501	00104	00182	16502	00000	
OSPSTA	114	00107	00108	00028	00113	00109	00000		5E5 and later
OSPSTA	115	00109	00000						5E5 and later
OSPSTA	116	00110	00000						5E5 and later

OSPSTA	117	00111	00000						5E5 and later
OSPSTA	118	00123	00000						5E5 and later
OSPSTA	119	00113	00000						5E5 and later
OSPSTA	120	00108	00114	00000					5E5 and later
OSPSTA	121	00155	00000						5E9(1) and later
OSPSTA	122	00118	16500	00100	00120	00000			5E9(1) and later
OSPSTA	123	00015	00012						5E9(2) only
		5	5						
OSPSTA	124	00052							5E9(2) only
OSPSTA	148	00155	00126						5E9(2) and later
OSPSTA	151	00051	00027	00056	00000				5E9(1) and later
OSPSTA	152	00298	00073	00027	00306	00317	00000		5E9(1) and later
OSPSTA	153	00058	00063	00000					5E9(1) and later
OSPSTA	154	00058	00064	00000					
OSPSTA	155	00138	00317	00071	00028	00318	00319	00000	5E9(1) and later
OSPSTA	156	00296	00073	00027	00306	00028	00000		5E9(1) and later
OSPSTA	157	00296	00073	00027	00306	00028	00000		5E9(1) and later
OSPSTA	158	00296	00073	00027	00306	00028	00000		5E9(1) and later
OSPSTA	159	00295	00027	00296	00297	00029	00094	00000	5E9(1) and later
OSPSTA	160	00073	00028	00074	00000				5E9(1) and later
OSPSTA	161	00210	00027	00316	00317	00000			5E9(1) and later
OSPSTA	162	00316	00317	00000					5E9(1) and later
OSPSTA	163	00210	00027	00145	00288	00316	00317	00000	5E9(1) and later
OSPSTA	164	00055	00000						5E9(1) and later
OSPSTA	165	00051	00027	00056	00000				5E9(1) and later
OSPSTA	166	0047	00207	00048					5E9(1) and later.
OSPSTA	167	00053	00049						5E9(1) and later
OSPSTA	168	00318	00319						5E9(1) and later
OSPSTA	169	00051	00027	00213	00000				5E8 and later
OSPSTA	170	00047	00049	00028	00050	00000			5E9(1) and later
OSPSTA	171	00295	00027	00296	00297	00040	00094	00000	5E9(1) and later
OSPSTA	172	00296	00073	00027	00306	00028	00000		5E9(1) and later
OSPSTA	176	00321	00026	00055	00000				
OSPSTA	177	00323	00026	00064	00000				5E9(1) and later
OSPSTA	178	00323	00026	00064	00000				5E9(1) and later
OSPSTA	179	00076	00000						5E8 - 5E9(1)
OSPSTA	179	00076							
OSPSTA	180	00324	00000						5E9(1) and later
OSPSTA	181	00157	00000						5E8 - 5E9(1)
OSPSTA	181	00157							5E9(2) - 5E10
OSPSTA	182	00321	00026	00055	00000				5E9(1) and later
OSPSTA	183	00032	00026	00055	00000				5E9(1) and later
		3							
OSPSTA	184	00323	00026	00063	00000				5E9(1) and later
OSPSTA	185	00323	00026	00064	00000				5E9(1) and later
OSPSTA	186	00076	00000						5E8 - 5E9(1)
OSPSTA	186	00076							5E9(2) - 5E10
OSPSTA	188	00107	00026	000324	00000				5E9(1) and later
OSPSTA	189	00051	00028	00318	00319	00000			5E9(1) and later
OSPSTA	190	00051	00028	00050	00000				5E9(1) only
OSPSTA	190	00051	00028	00050					5E9(2) and later.
OSPSTA	191	00118	16503	00027	00000				5E8 - 5E9(1)
OSPSTA	191	00118	16503	00027					5E9(2) and later
OSPSTA	192	00210	00027	00138	00140	00000			5E8 - 5E9(1)
OSPSTA	192	00210	00027	00138	00140				5E9(2) and later
OSPSTA	193	00210	00027	00051	00000				5E8 - 5E9(1)
OSPSTA	193	00210	00027	00051					5E9(2) and later
OSPSTA	195	00213	00027	00053	00049	00000			5E9(1) only
OSPSTA	195	00054	00026	00053	00049				5E9(2) and later
OSPSTA	196	00054	00027	00053	00049	00000			5E9(1) and later
OSPSTA	197	00054	00027	00306	00000				5E9(1) and later
OSPSTA	198	00213	00027	00053	00049	00000			5E9(1) and later
OSPSTA	199	00213	00027	00306	00000				5E9(1) and later
OSPSTA	206	00134	00148	00137	00027	00138	00214	00000	5E9(1) only
OSPSTA	206	00134	00148	00137	00027	00138	00214		5E9(2) and later.
OSPSTA	207	00134	00148	00137	00027	00144	00142	00000	5E9(1) only
OSPSTA	207	00134	00148	00137	00027	00144	00142		5E9(2) and later
OSPSTA	208	00152	00063	00000					5E9(1) only

OSPSTA	208	00152	00063						5E9(2) and later.
OSPSTA	209	00152	00064	00000					5E9(1) only
OSPSTA	209	00152	00064						5E9(2) and later.
OSPSTA	212	00124	00027	00118	16502	00104	00000		5E9(1) only
OSPSTA	212	00124	00027	00118	16502	00104			5E9(2) and later.
OSPSTA	213	00113	16501	00005	16502	00105	00000		5E9(1) only
OSPSTA	213	00113	16501	00005	16502	00105			5E9(2) and later.
OSPSTA	214	00158	00162	00159	00028	00028	00028	00028	5E9(1) only
		00000							
OSPSTA	214	00158	00162	00159	00028	00028	00028	00028	5E9(2) and later.
OSPSTA	220	00144	00142	00027	00134	00148	00137	00000	5E9(1) and later
OSPSTA	221	00145	00027	00210	00000				5E9(1) and later
OSPSTA	222	00144	00142	00027	00210	00000			5E9(1) and later
OSPSTA	223	00067	00000						5E9(1) only
OSPSTA	223	00067							5E9(2) and later
OSPSTA	224	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	224	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	225	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	225	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	226	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	226	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	227	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	227	00075	00002	00027	00009	00024	00027	00007	
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	228	00075	00002	00027	00009	00024	00027	00007	5E9(1) only
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	228	00075	00002	00027	00009	00024	00027	00007	5E9(2) and later
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	229	00075	00002	00027	00009	00024	00027	00007	5E9(1) only
		00005	00017	00027	00001	00001	00001	00017	
		00000							
OSPSTA	229	00075	00002	00027	00009	00024	00027	00007	5E9(2) and later
		00005	00017	00027	00001	00001	00001	00017	
OSPSTA	230	00138	00140	00000					5E9(1) only
OSPSTA	230	00138	00140						5E9(2) and later
OSPSTA	231	16504	16501	00102	00028	00113	16386	00181	5E9(1) only
		16502	00000						
OSPSTA	231	16504	16501	00102	00028	00113	16386	00181	5E9(2) and later
		16502							
OSPSTA	232	00079	16504	00028	00047	00048	00000		5E9(1) only
OSPSTA	232	00079	16504	00028	00047	00048			5E9(2) and later
OSPSTA	233	00155	16504	00000					5E9(1) only
OSPSTA	233	00155	16504						5E9(2) and later
OSPSTA	234	00155	16504	00118	16500	00100	00120	00000	5E9(1) only
OSPSTA	234	00155	16504	00118	16500	00100	00120		5E9(2) and later
OSPSTA	235	16504	16501	00102	00028	00028	00113	16386	5E9(1) only
		00119	00000						
OSPSTA	235	16504	16501	00102	00028	00028	00113	16386	5E9(2) and later
		00119							
OSPSTA	236	14066	00124	14066	00124	00000			5E9(1) and later.
OSPSTA	237	00156	00157	00074					5E9(2) and later.
OSPSTA	240	00121	00026	00160					5E9(2) and later.
RAS	001	00080	16385	00081	00013	00082	00012	00054	5E5 and later
		00000							
RAS	002	00083	00074	00098	00000				5E5 and later
RAS	003	00077	00084	16385	00085	00086	00098	00000	5E5 and later
RAS	004	00059	00060	00062	00000				5E5 and later

Figure 1 DEFAULT INPUT DATA PROVIDED BY ODA

* 1. APPLICATION	ROW	PHR	ROW	PHR	ROW	PHR	ROW	PHR	ROW
* 2. HEADER ID	1		11		21		31		41
	2		12		22		32		42
	3		13		23		33		43
	4		14		24		34		44
	5		15		25		35		45
	6		16		26		36		46
	7		17		27		37		47
	8		18		28		38		48
	9		19		29		39		49
	10		20		30		40		50

Figure 2 SAMPLE ANNHD FORM 5E9(1) SOFTWARE RELEASE

SCREEN 1 OF 2

5ESS Switch

annhd

OFFICE DATA ADMINISTRATION

(5531)

ANNOUNCEMENT HEADER PHRASE LIST

3. PHRASE LIST (50 of 67)

*1. HEADER ID _____	ROW PHR	ROW PHR	ROW PHR	ROW PHR	ROW PHR
*2. APPLICATION _____	1 _____	11 _____	21 _____	31 _____	41 _____
DURATION _____	2 _____	12 _____	22 _____	32 _____	42 _____
	3 _____	13 _____	23 _____	33 _____	43 _____
	4 _____	14 _____	24 _____	34 _____	44 _____
	5 _____	15 _____	25 _____	35 _____	45 _____
	6 _____	16 _____	26 _____	36 _____	46 _____
	7 _____	17 _____	27 _____	37 _____	47 _____
	8 _____	18 _____	28 _____	38 _____	48 _____
	9 _____	19 _____	29 _____	39 _____	49 _____
	10 _____	20 _____	30 _____	40 _____	50 _____

SCREEN 2 OF 2

5ESS Switch

annhd

OFFICE DATA ADMINISTRATION

(5531)

ANNOUNCEMENT HEADER PHRASE LIST

3. PHRASE LIST (51 - 67)

ROW PHR	ROW PHR
51 _____	61 _____
52 _____	62 _____
53 _____	63 _____
54 _____	64 _____
55 _____	65 _____
56 _____	66 _____
57 _____	67 _____
58 _____	
59 _____	
60 _____	

Figure 3 SAMPLE ANNHD FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 5AF: 5532 RECORD ANNOUNCEMENT DIGIT INFLECTION SCHEME FORM - ANNDG

1. GENERAL

The 5532 Record is available with 5E3 and later Software Releases. This record contains a list of inflection commands and phrases used to convert a digit string into a set of phrase identifications.

The Digit Inflection Scheme is a "template" for the digit string; the Digit Inflection Scheme details how to pronounce digits. Digit string expansion occurs whenever a digit string is to be inserted into an announcement. Digit information is extracted from a digits array used by application software. For each digit string in this array, the associated Inflection ID is used to determine what inflection scheme is to be applied to the digit string. The phrases are interpreted as commands or Phrase IDs. The Phrase IDs correspond to digit-related phrases such as digits, pauses, area codes, etc.

NOTE: The specific APPLICATION on the associated ANNAPL form (5529 Record) must be entered before Standard Input Data will be provided by ODA for this form.

1.1 Limited 2-Level COT/AC Secured Feature

To use the Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback) Secured Feature Announcements, forms with APPLICATION equal to "LASS" and INFLECTION ID equal to 1 through 7 and 10 must be entered. These 8 forms are shared by the LASS features and the COT/AC application.

1.2 Recent Change View

The corresponding Recent Change View for this form is 8.60.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * APPLICATION

Description: Enter the type of application which corresponds to the header announcement.

Valid APPLICATION Entries	
Entry	Definition
2 or 2LEVEL	Software Release: 5E7 and later. 2-Level COT and AC (Customer Originated Trace and Automatic Callback).
A or ACSR	Software Release: 5E5 and later. Automatic Customer Station Rearrangement.
L[2 - 7]	Software Release: 5E9(1) and later. The Non-English Application type used to map the English phrase ID to the non-English phrase ID. L2 - L7 are defined on the LANGTBL (5483-2 Record) and correspond to the non-English language designated by the DISPLAY ID field.
L or LASS	Software Release: 5E6 and later. Local Area Signaling Services Selective Features Screen List Editing.
NPA_SP	Software Release: 5E13 and later. Numbering Plan Area Split Announcement.
D or OSPSDA	OSPS Directory Assistance.
T or OSPSTA	Software Release: 5E4(2) and later.

R or RAS	OSPS Toll and Assistance.
	Software Release: 5E5 and later.
	Remote Access Service.

Data Rules:

For 5E4(2) and later, if the APPLICATION is "OSPSDA" or "OSPSTA", then an associated ANNHD form (5531 Record), ANNTR form (5533 Record), and an ANNAPL form (5529 Record) must exist.

For 5E5 and later, if the APPLICATION is "RAS" or "ACSR", then an associated ANNHD form (5531 Record), ANNTR form (5533 Record), ANNDG form, and an ANNAPL form (5529 Record) must exist.

For 5E6 and later, if the APPLICATION is "LASS", then an associated ANNHD form (5531 Record), ANNDG form, and an ANNAPL form (5529 Record) must exist.

For 5E7 and later, if the APPLICATION is "2LEVEL", then at least one associated ANNHD form and an ANNAPL form must exist.

2.3 * INFLECTION ID

Description: Enter an Inflection Identification number. Each application may have from 1 to 255 different inflection schemes.

2.4 INFLECTION COMMANDS/PHRASES

Description: Enter the Inflection Command/Phrase number for each string. At least two INFLECTION COMMANDS/PHRASES are required; "END" must be entered at the end of each string.

Valid Entries: See Figures 1 and 2

Data Rules:

"TWODIG" must be entered if a digit string is to be entered twice.

Any entries in this field must have a corresponding PHRASE ID on a PHRASE form (5534 Record).

INFLECTION COMMAND/PHRASE	DESCRIPTION	SOFTWARE RELEASE
END	End of Inflection Command/Phrase Array	5E3 and later
FLTO	Flat "Zero" Phrase ID	5E3 and later
FLT1	Flat "One" Phrase ID	5E3 and later
FLT2	Flat "Two" Phrase ID	5E3 and later
FLT4	Flat "Three" Phrase ID	5E3 and later
FLT5	Flat "Five" Phrase ID	5E3 and later
FLT6	Flat "Six" Phrase ID	5E3 and later
FLT7	Flat "Seven" Phrase ID	5E3 and later
FLT8	Flat "Eight" Phrase ID	5E3 and later
FLT9	Flat "Nine" Phrase ID	5E3 and later
FLT10 - FLT20	Flat "Ten" - "Twenty" Phrase ID	5E4(2) and later
FLT30	Flat "Thirty" Phrase ID	5E4(2) and later
FLT40	Flat "Forty" Phrase ID	5E4(2) and later
FLT50	Flat "Fifty" Phrase ID	5E4(2) and later
FLT60	Flat "Sixty" Phrase ID	5E4(2) and later
FLT70	Flat "Seventy" Phrase ID	5E4(2) and later
FLT80	Flat "Eighty" Phrase ID	5E4(2) and later
FLT90	Flat "Ninety" Phrase ID	5E4(2) and later
FLTOH	Flat "Oh" Phrase ID	5E3 and later
FALO	Falling "Zero" Phrase ID	5E3 and later

FAL1	Falling "One" Phrase ID	5E3 and later
FAL2	Falling "Two" Phrase ID	5E3 and later
FAL3	Falling "Three" Phrase ID	5E3 and later
FAL4	Falling "Four" Phrase ID	5E3 and later
FAL5	Falling "Five" Phrase ID	5E3 and later
FAL6	Falling "Six" Phrase ID	5E3 and later
FAL7	Falling "Seven" Phrase ID	5E3 and later
FAL8	Falling "Eight" Phrase ID	5E3 and later
FAL9	Falling "Nine" Phrase ID	5E3 and later
FALOH	Falling "Oh" Phrase ID	5E3 and later
AREA	"Area Code" Phrase ID	5E3 and later
HUND	"Hundred" Phrase ID	5E3 and later
THOUS	"Thousand" Phrase ID	5E3 and later
QTR	Quarter second pause Phrase ID	5E3 and later
HALF	Half second pause Phrase ID	5E3 and later
FULL	Full second pause Phrase ID	5E3 and later
PH29 - PH127	Application-defined Phrase ID	5E3 only
PH47 - PH127	Application-defined Phrase ID	5E4(2) and later
FLAT	Command - Give digit in flat inflection	5E3 and later
FALL	Command - Give digit in falling inflection	5E3 and later
SAZERO	Command - Give all subsequent "0"s as "Zero"	5E3 and later
SAOH	Command - Give all subsequent "0"s as "Oh"	5E3 and later
SAHUND	Command - If last three digits were "N00", where N = 1-9, substitute with "N hundred"	5E3 and later
SATHOUS	Command - If last three digits were "N000", where N = 1-9, substitute with "N thousand"	5E3 and later
SAHORT	Command - Perform Hundred or Thousand substitution as described above. Thousand substitution, if applicable, has priority	5E3 and later
TWODIG	Repeat Digit String Twice	5E4(2) and later

Figure 1 ANNOUNCEMENT INFLECTION COMMAND/PHRASE TABLE

APPLICATION	INFLECTION ID	INFLECTION COMMANDS/PHRASES								SOFTWARE RELEASE
2LEVEL	1	SAOH	FALL	END						5E7 and later
2LEVEL	2	SAOH	FLAT	FALL	END					5E7 and later
2LEVEL	3	SAOH	FLAT	FLAT	FALL	END				5E7 and later
2LEVEL	4	SAOH	FLAT	FLAT	FLAT	FALL	SAHORT	END		5E7 and later
2LEVEL	5	SAOH	FLAT	FLAT	FLAT	FLAT	FALL	SAHORT	END	5E7 and later
2LEVEL	6	SAOH SAHO RT	FLAT END	FALL	HALF	FLAT	FLAT	FLAT	FALL	5E7 and later
2LEVEL	7	SAOH FALL	FLAT SAHO RT	FLAT END	FALL	HALF	FLAT	FLAT	FLAT	5E7 and later
2LEVEL	10	FLAT FALL	SAOH HALF	FLAT FLAT	FALL FLAT	SAHUND FLAT	HALF FALL	FLAT SAHORT	FLAT END	5E7 and later
ACSR	1	FALL	END							5E5 and later
ACSR	2	FLAT	FALL	END						5E5 and later
ACSR	3	FLAT	FLAT	FALL	END					5E5 and later
ACSR	4	FLAT	FLAT	FLAT	FALL	END				5E5 and

										later
ACSR	5	FLAT	FLAT	FLAT	FLAT	FALL	END			5E5 and later
ACSR	6	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END		5E5 and later
ACSR	7	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END	5E5 and later
ACSR	10	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E12 and later
		FLAT	FALL	END						later
LASS	1	SAOH	FALL	END						5E6 and later
LASS	2	SAOH	FLAT	FALL	END					5E6 and later
LASS	3	SAOH	FLAT	FLAT	FALL	END				5E6 and later
LASS	4	SAOH	FLAT	FLAT	FLAT	FALL	SAHO RT	END		5E6 and later
LASS	5	SAOH	FLAT	FLAT	FLAT	FLAT	FALL	SAHO RT	END	5E6 and later
LASS	6	SAOH	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	5E6 and later
		SAHO RT	END							later
LASS	7	SAOH	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	5E6 and later
		FALL	SAHO RT	END						later
LASS	8	SAOH	FALL	HALF	FLAT	FLAT	FALL	HALF	FLAT	5E6 and later
		FLAT	FLAT	FALL	SAHO RT	END				later
LASS	9	SAOH	FLAT	FALL	HALF	FLAT	FLAT	FALL	HALF	5E6 and later
		FLAT	FLAT	FLAT	FALL	SAHO RT	END			later
LASS	10	FLAT	SAOH	FLAT	FALL	SAHU ND	HALF	FLAT	FLAT	5E6 and later
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	END	later
LASS	11	FALL	HALF	SAOH	FLAT	FLAT	FALL	SAHU ND	HALF	5E6 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	later
		SAHO RT	END							
LASS	12	SAOH	FLAT	FALL	HALF	FLAT	FLAT	FALL	HALF	5E6 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	later
		SAHO RT	END							
LASS	13	SAOH	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FALL	5E6 and later
		HALF	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	later
		FALL	SAHO RT	END						
LASS	14	SAOH	FLAT	FLAT	FLAT	FALL	HALF	FLAT	FLAT	5E6 and later
		FALL	HALF	FLAT	FLAT	FALL	HALF	FLAT	FLAT	later
		FLAT	FALL	SAHO RT	END					
LASS	15	SAOH	FLAT	FALL	HALF	FLAT	FLAT	FALL	HALF	5E6 and later
		FLAT	FLAT	FALL	SAHU ND	HALF	FLAT	FLAT	FALL	later
		HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	END		
LASS	16	SAOH	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FALL	5E6 and later
		HALF	FLAT	FLAT	FALL	SAHU ND	HALF	FLAT	FLAT	later
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO	END	

								RT		
LASS	17	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FALL	END							
LASS	18	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FALL	END						
LASS	19	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FALL	END					
LASS	20	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FALL	END				
LASS	21	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FALL	END			
LASS	22	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END		
LASS	23	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END	
LASS	24	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		END								
LASS	25	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FALL	END							
LASS	26	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FALL	END						
LASS	27	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FALL	END					
LASS	28	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FALL	END				
LASS	29	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FALL	END			
LASS	30	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END		
LASS	31	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END	
LASS	32	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E6 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	
		END								
OSPSDA	3	SAOH	FLAT	FLAT	FALL	END				5E5 and later
OSPSDA	4	SAOH	FLAT	FLAT	FLAT	FALL	SAHO	END		5E5 and later
							RT			
OSPSDA	7	SAOH	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	5E5 and later
		FALL	SAHO	END						
			RT							
OSPSDA	10	SAOH	AREA	FLAT	FLAT	FALL	HALF	FLAT	FLAT	5E5 and later
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO	END	

OSPSDA	100	SAOH	FLAT	FLAT	FALL	SAHU ND	HALF	RT FLAT	FLAT	5E5 and later
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	END	
OSPSDA	255	FLT0 FLAT	SAOH FALL	AREA SAHU ND	FLT3 FLAT	FLT1 FLAT	FAL2 FLAT	QTR FALL	FLAT SAHO RT	5E5 only
		FLT1 FLAT	SAOH FALL	AREA SAHU ND	FLT3 FLAT	FLT1 FLAT	FAL2 FLAT	QTR FALL	FLAT SAHO RT	
		FLT2 FLAT	SAOH FALL	AREA SAHU ND	FLT3 FLAT	FLT1 FLAT	FAL2 FLAT	QTR FALL	FLAT PH65	
		PH66	END							
OSPSTA	1	FLT0	END							5E5 only
OSPSTA	2	SAOH	FLAT	FALL	END					5E5 and later
OSPSTA	3	FLAT	FLAT	FALL	END					5E5 and later
OSPSTA	101	TWODI G	PH83	END						5E6 and later
OSPSTA	102	TWODI G	PH84	END						5E6 and later
OSPSTA	103	TWODI G	PH83	PH106	TWODI G	PH88	END			5E6 and later
OSPSTA	104	TWODI G	PH84	PH106	TWODI G	PH88	END			5E6 and later
OSPSTA	105	TWODI G	PH88	END						5E6 and later
OSPSTA	106	TWODI G	PH85	END						5E6 and later
OSPSTA	107	TWODI G	PH86	END						5E6 and later
OSPSTA	108	TWODI G	PH83	PH106	TWODI G	PH90	END			5E6 and later
OSPSTA	109	TWODI G	PH84	PH106	TWODI G	PH90	END			5E6 and later
OSPSTA	110	TWODI G	PH90	END						5E6 and later
OSPSTA	111	TWODI G	PH95	END						5E6 and later
OSPSTA	112	TWODI G	PH96	END						5E6 and later
OSPSTA	113	TWODI G	PH95	PH106	TWODI G	PH92	END			5E6 and later
OSPSTA	114	TWODI G	PH96	PH106	TWODI G	PH92	END			5E6 and later
OSPSTA	115	TWODI G	PH92	END						5E6 and later
OSPSTA	116	TWODI G	PH97	END						5E6 and later
OSPSTA	117	TWODI G	PH98	END						5E6 and later
OSPSTA	118	TWODI G	PH95	PH106	TWODI G	PH94	END			5E6 and later
OSPSTA	119	TWODI G	PH96	PH106	TWODI G	PH94	END			5E6 and later
OSPSTA	120	TWODI G	PH94	END						5E6 and later

OSPSTA	121	TWODI G	PH89	END						5E8 and later
OSPSTA	122	TWODI G	PH83	PH106	TWODI G	PH89	END			5E8 and later
OSPSTA	123	TWODI G	PH84	PH106	TWODI G	PH89	END			5E8 and later
OSPSTA	124	FLAT	HUND	PH86	END					5E8 and later
OSPSTA	125	FLAT	HUND	PH84	PH106	TWODI G	PH89	END		5E8 and later
OSPSTA	126	FLAT	HUND	PH84	PH106	TWODI G	PH90	END		5E8 and later
OSPSTA	127	FLAT	HUND	TWODI G	PH86	END				5E8 and later
OSPSTA	128	FLAT	HUND	TWODI G	PH84	PH106	TWODI G	PH89	END	5E8 and later
OSPSTA	129	FLAT	HUND	TWODI G	PH84	PH106	TWODI G	PH90	END	5E8 and later
OSPSTA	130	FLAT	THOU S	PH86	END					5E8 and later
OSPSTA	131	FLAT	THOU S	PH84	PH106	TWODI G	PH89	END		5E8 and later
OSPSTA	132	FLAT	THOU S	PH84	PH106	TWODI G	PH90	END		5E8 and later
OSPSTA	133	FLAT	THOU S	TWODI G	PH86	END				5E8 and later
OSPSTA	134	FLAT	THOU S	TWODI G	PH84	PH106	TWODI G	PH89	END	5E8 and later
OSPSTA	135	FLAT	THOU S	TWODI G	PH84	PH106	TWODI G	PH90	END	5E8 and later
OSPSTA	136	FLAT	THOU S	FLAT	HUND	PH86	END			5E8 and later
OSPSTA	137	FLAT	THOU S	FLAT	HUND	PH84	PH106	TWODI G	PH89	5E8 and later
OSPSTA	138	END FLAT	THOU S	FLAT	HUND	PH84	PH106	TWODI G	PH90	5E8 and later
OSPSTA	139	END FLAT	THOU S	FLAT	HUND	TWODI G	PH86	END		5E8 and later
OSPSTA	140	FLAT	THOU S	FLAT	HUND	TWODI G	PH84	PH106	TWODI G	5E8 and later
OSPSTA	141	PH89 FLAT	THOU S	FLAT	HUND	TWODI G	PH84	PH106	TWODI G	5E8 and later
RAS	1	PH90 FALL	END							5E5 and later
RAS	2	FLAT	FALL	END						5E5 and later
RAS	3	FLAT	FLAT	FALL	END					5E5 and later
RAS	4	SAOH	FLAT	FLAT	FLAT	FALL	SAHO RT	END		5E5 and later
RAS	5	SAOH	FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	5E5 and later
RAS	6	END SAOH SAHO RT	FLAT END	FALL	HALF	FLAT	FLAT	FLAT	FALL	5E5 and later

RAS	7	SAOH FALL	FLAT SAHO RT	FLAT END	FALL	HALF	FLAT	FLAT	FLAT	5E5 and later
RAS	8	FALL	HALF	SAOH	FLAT	FLAT	FALL	HALF	FLAT	5E5 and later
		FLAT	FLAT	FALL	SAHO RT	END				
RAS	9	FLAT	SAOH	FALL	HALF	FLAT	FLAT	FALL	HALF	5E5 and later
		FLAT	FLAT	FLAT	FALL	SAHO RT	END			
RAS	10	AREA	FLAT	FLAT	FALL	SAHU ND	HALF	FLAT	FLAT	5E5 and later
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	END	
RAS	11	FLAT	AREA	FLAT	SAOH	FLAT	FALL	SAHU ND	HALF	5E5 and later
		FLAT SAHO RT	FLAT END	FALL	HALF	FLAT	FLAT	FLAT	FALL	
RAS	12	FLAT	FLAT	FALL	HALF	SAOH	FLAT	FALL	HALF	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	
RAS	13	SAHO RT	END							5E5 and later
		FLAT	FLAT	FALL	HALF	SAOH	FLAT	FALL	HALF	
RAS	14	FLAT	FLAT	FALL	HALF	SAOH	FLAT	FALL	HALF	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	15	FALL	SAHO RT	END						5E5 and later
		FLAT	FLAT	FALL	HALF	SAOH	FLAT	FALL	HALF	
RAS	16	FLAT	SAOH	FALL	HALF	FLAT	FLAT	FALL	HALF	5E5 and later
		AREA	FLAT	FLAT	FALL	SAHU ND	HALF	FLAT	FLAT	
RAS	17	FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO RT	END	5E5 and later
		FLAT	FALL	SAOH	HALF	FLAT	FLAT	FALL	SAHU ND	
RAS	18	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	19	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	20	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	21	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	22	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	23	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	
RAS	24	FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FLAT	

		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	
		END								
RAS	25	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FALL	END							
RAS	26	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FALL	END						
RAS	27	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
RAS	28	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FALL	END				
RAS	29	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END		
RAS	30	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END	
RAS	31	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	END
RAS	32	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	5E5 and later
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	
		FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FLAT	FALL	
		END								
RAS	100	SAOH	AREA	FLAT	FLAT	FALL	SAHU	HALF	FLAT	5E5 and later
		FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO	
		END							RT	
RAS	101	SAOH	FLAT	FALL	HALF	FLAT	FLAT	FALL	HALF	5E5 and later
		AREA	FLAT	FLAT	FALL	SAHU	HALF	FLAT	FLAT	
		FALL	HALF	FLAT	FLAT	FLAT	FALL	SAHO	END	
								RT		
RAS	102	SAOH	FLAT	AREA	FLAT	FLAT	FALL	SAHU	HALF	5E5 and later
		FLAT	FLAT	FALL	HALF	FLAT	FLAT	FLAT	FALL	
		SAHO	END							
		RT								

Figure 2 DEFAULT INPUT DATA PROVIDED BY ODA

anndg
(5532)

5ESS OFFICE DATA ADMINISTRATION _
ANNOUNCEMENT DIGIT INFLECTION SCHEME

3. INFLECTION COMMANDS/PHRASES

* 1. APPLICATION	OSPSDA	row	6.	9.	12.	15.	18.
* 2. INFLECTION ID	3	1	SAOH	_____	_____	_____	_____
		2	FLAT	_____	_____	_____	_____

3	FLAT	_____	_____	_____	_____
4	FALL	_____	_____	_____	_____
5	END	_____	_____	_____	_____
6	_____	_____	_____	_____	_____
7	_____	_____	_____	_____	_____
8	_____	_____	_____	_____	_____
9	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____

Figure 3 SAMPLE ANNDG FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 5AG: 5533 RECORD ANNOUNCEMENT TRAILER PHRASE LIST FORM - ANNTR

1. GENERAL

The 5533 Record is available with 5E3 and later Software Releases. This record lists phrases that identify announcement trailer. An announcement trailer enables a group of phrases (comprising an announcement) to be accessed with a "trailer identification number."

The trailer identification is mapped to a set of phrase identifications/ commands which specify whether to concatenate a phrase identification or to expand a digit string at that point in the announcement. For example, a typical announcement trailer is, "If you have further questions, a directory assistance operator will return". The type of trailer announcement depends on whether subscriber recall will be allowed. If recall is not allowed, the typical trailer is, "If you have further questions, please hang up and try again".

The phrase or phrases are ordered in the PHRASE list on this form, and each PHRASE is defined on a PHRASE form (5534 Record).

With 5E4(2) and later Software Releases, the SM and DURATION fields have been removed.

1.1 Default Data

With 5E5 and later Software Releases, a set of Default Input Data is provided by ODA (See Figure 1).

NOTE: The specific APPLICATION must be entered on the associated ANNAPL form (5529 Record) before Default Input Data will be provided by ODA for this form.

1.2 Recent Change View

The corresponding Recent Change View for this form is 8.62.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * TRAILER ID

Description: Enter a trailer identification number.

Valid Entries: For 5E11 and earlier: 1 - 255

For 5E12 and later: 1 - 65535

2.3 * APPLICATION

Description: Enter the type of application which corresponds to the trailer announcement.

Valid APPLICATION Entries	
Entry	Definition
ACSR or A	Software Release: 5E5 and later. Automatic Customer Station Rearrangement.
ASP or AS	Software Release: 5E8 and later.

	ASP (Advanced Services Platform) (previously PVN (Private Virtual Network)).
L[2 - 7]	Software Release: 5E9(1) and later. The Non-English Application type used to map the English phrase ID to the non-English phrase ID. L2 - L7 are defined on the LANGTBL (5483-2 Record) and correspond to the non-English language designated by the DISPLAY ID field.
OSPDA or D	OSPS Directory Assistance.
OSPSTA or T	Software Release: 5E4(2) and later. OSPS Toll and Assistance.
PVN or P	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASP". See the description under "ASP".
RAS or R	Software Release: 5E5 and later. Remote Access Service.

Data Rules:

For 5E5 and later, if the APPLICATION is "ACSR" or "RAS" at least one ANNAPL form, ANNHD form, ANNDG form, and ANNTR form must be entered.

For 5E6 and 5E7, if the APPLICATION is "PVN", then an associated ANNAPL form (5529 Record) must exist. An associated ANNHD form (5531 Record) may exist. No associated ANNDG forms (5532 Record) will exist.

2.4 DURATION

Description: This field is a Recent Change only field. The DURATION field specifies the duration of the announcement in seconds.

Valid Entries: 0 - 7200

Data Rules:

The calculated duration of the commands/phrases string on the ANNTR input form cannot exceed
255 seconds for 5E9(1) and earlier or
7200 seconds for 5E9(2) and later.

The duration is calculated from the PHRASE input form records.

2.5 PHRASES

Description: Enter the phrase numbers for each phrase trailer.

Valid Entries:

For 5E7 - 5E9(1): 0 - 16383, 16385 - 16389
or 16500 - 32767

For 5E9(2) and later: 1 - 16383, 16385 - 16389,
or 16500 - 65530

Data Rules:

For 5E3 - 5E9(1), at least two entries in this list must be entered. The last, and only the last phrase number, must be 0. For 5E9(1) and earlier, the maximum number of phrases is 50.

For 5E9(2) and later, at least one phrase is required. The maximum number of phrases is 49.

APPLICATION	TRAILER ID	PHRASES								SOFTWARE RELEASE
ACSR	002	0027	0000							5E5 and later

		9	0							
ACSR	007	0008	0001	0008	0001	0005	0025	0000		5E5 and later
		1	3	2	2	4	6	0		
ACSR	010	0026	0000							5E5 and later
		7	0							
ACSR	011	0027	0000							5E5 and later
		1	0							
ACSR	013	0026	0027	0025	0000					5E5 and later
		5	0	6	0					
ACSR	014	0026	0027	0000						5E5 and later
		5	1	0						
ACSR	016	0027	0000							5E5 and later
		1	0							
ACSR	019	0026	0000							5E5 and later
		4	0							
ACSR	022	0008	0001	0008	0001	0026	0025	0000		5E5 and later
		1	3	2	2	2	6	0		
ACSR	024	0006	0025	0000						5E5 and later
		5	9	0						
ACSR	030	0028	0000							5E5 and later
		8	0							
ACSR	031	0028	0027	0000						5E5 and later
		5	9	0						
ACSR	032	0028	0000							5E5 and later
		6	0							
ACSR	033	0028	0000							5E5 and later
		5	0							
ACSR	035	0039	0000							5E7 and later
		4	0							
ACSR	039	0040	0000							
		1	0							
ACSR	040	0040	0000							5E7 and later
		2	0							
ACSR	044	0040	0000							5E7 and later
		7	0							
OSPSTA	001	0004	0004	0000						5E5 and later
		7	8	0						
OSPSTA	002	0004	0004	0000						5E5 and later
		7	9	0						
OSPSTA	001	0015	1638	0000						5E5 and later
		4	5	0						
OSPSTA	101	0002	0011	0010	0000					5E5 and later
		7	3	9	0					
OSPSTA	102	0002	0011	0011	0000					5E5 and later
		7	3	0	0					
OSPSTA	103	0002	0011	0011	0000					5E5 and later
		7	3	1	0					
OSPSTA	104	0002	0005	0000						5E5 and later
		7	2	0						
RAS	012	0005	0005	0009	0000					5E5 and later
		3	4	8	0					
RAS	013	0007	0005	0009	0000					5E5 and later
		3	4	8	0					
RAS	020	0006	0001	0006	0001	0005	0009	0000		5E5 and later
		3	3	4	2	4	8	0		
RAS	032	0017	0005	0009						5E12 and later
		8	4	8						

Figure 1 DEFAULT INPUT DATA PROVIDED BY ODA

		3. PHRASES					
* 1. APPLICATION	OSPSDA	row	6.	9.	12.	15.	18.
* 2. TRAILER ID	1	1	47				
		2	48				
		3	0				
		4					
		5					
		6					
		7					
		8					
		9					
		10					

Figure 2 SAMPLE ANNTR FORM 5E4(2) - 5E9(1) SOFTWARE RELEASES

*1. TRAILER ID _____		3. PHRASE LIST									
*2. APPLICATION _____	DURATION	ROW	PHR	ROW	PHR	ROW	PHR	ROW	PHR	ROW	PHR
		1	_____	11	_____	21	_____	31	_____	41	_____
		2	_____	12	_____	22	_____	32	_____	42	_____
		3	_____	13	_____	23	_____	33	_____	43	_____
		4	_____	14	_____	24	_____	34	_____	44	_____
		5	_____	15	_____	25	_____	35	_____	45	_____
		6	_____	16	_____	26	_____	36	_____	46	_____
		7	_____	17	_____	27	_____	37	_____	47	_____
		8	_____	18	_____	28	_____	38	_____	48	_____
		9	_____	19	_____	29	_____	39	_____	49	_____
		10	_____	20	_____	30	_____	40	_____		

Figure 3 SAMPLE ANNTR FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 5AH: 5534 RECORD ANNOUNCEMENT PHRASE LIST FORM - PHRASE

1. GENERAL

The 5534 Record is available with 5E3 and later Software Releases. This record defines and describes phrase IDs which are provided on the DSU2-RAF (Digital Services Unit 2-Recorded Announcement Function) Announcement Storage circuit packs for each application (see Division 8, Section 36 for required pack assignments).

As phrase IDs are changed in the RAFs (5531, 5532, and 5533 Records), they must be changed on this record so that the two are synchronized. (This is not necessarily true during a growth scenario.) The 5534 Record allows the phrases to be stored in the AM (Administrative Module) to provide verification and information while populating the announcement data base.

1.1 Default Data

Available with 5E5 and later Software Releases, a standard set of input data is provided for the APPLICATIONs, such as "ACSR" and "RAS", by the ODA system as each office is registered and normally no data need be entered by the ODA system users for those particular applications. If, however, it is required that the data vary from the standard, this form may be used to specify the necessary data.

- **NOTE:** With 5E7 only, FEATURE ID 536 must be activated on the SFSYS form (8.22 Record) (RC View 8.31) to access LASS phrases 411 through 443. The MC5D143A30, L23 pack must be equipped on the DSU2-RAF (see Division 8, Section 36 for required pack assignments). Refer to Division 3, Section 5AE for further explanation.
- **NOTE:** Since the PHRASE field only accommodates 65 characters, some standard input phrases may have words omitted or abbreviated from the actual announcement supplied by the DSU2-RAF firmware.

1.2 Limited 2-Level COT/AC Secured Feature

To use the Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback) Secured Feature Announcements, forms with APPLICATION equal to "LASS" and PHRASE ID equal to 1 through 46, 65, 98, 104 through 177, or any customized phrase number used by the ANNHD forms must be entered.

Form instances with PHRASE IDs equal to 1 through 46 are used by other LASS announcements and are provided as part of the standard data set. Form instances with PHRASE ID equal to 65, 98, and 104 through 177 are specific to the Limited 2-Level COT/AC Secured Feature and are not provided with standard data; rather, they must be entered by the office through RC or ODA or via an SU/BWM script.

In order to use the phrases provided on the standard BRCS-SLE announcement board (see the EQRAP form (5822 Record), Division 8, Section 36) forms using phrases in Figure 2 must be built.

1.3 Recent Change View

The corresponding Recent Change View for this form is 8.63.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PHRASE ID

Description: Enter a phrase identification number.

Valid Entries:

For 5E7 - 5E9(1): 1 - 6383,

16,385 - 16,389, and

16,500 - 32,767

For 5E9(2) and later: 1 - 16,383, and

16,600 - 65,530

Valid PHRASE ID Entries	
PHRASE ID	Definition
1 - 46	Digit String-related Phrase IDs.
47 - 16383	Application-defined Phrase IDs.
14000 - 14999	Software Release: 5E5 and later. Customized audible logos provided for BRCS Customized Announcement Circuit Pack.
16385	Software Release: 5E4(2) and later. Command. Insert a digit string.
16386	Software Release: 5E4(2) and later. Command. Repeat the previous digit string.
16387	Software Release: 5E7 and later. Command - date of last incoming call.
16388	Software Release: 5E7 and later. Command - time of last incoming call.
16389	Software Release: 5E7 and later. Command - number of dollars and cents.
16500 - 32767	Software Release: 5E4(2) and later. Application-specific commands that are defined by applications to have certain meanings.
32768 - 65530	Software Release: 5E9(2) and later. Application-defined phrase IDs.

For OSPS ACTS (Automated Coin Announcements), the following application-specific commands are recognized:

Valid OSPS ACTS PHASE ID Entries	
PHRASE ID	Definition
16500	Command. Insert a CREDIT digit string.
16501	Command. Insert a CHARGE DUE digit string.
16502	Command. Insert a CALL DURATION digit string.

Data Rules:

A PHRASE form must be submitted for each PHRASE ID value from 1 - 46 for 5E4(2) and later.

2.3 * APPLICATION

Description: Enter the type of application which corresponds to a Switching Module.

Default: OSPSDA

Valid Entries:

Valid APPLICATION Entries	

Entry	Definition
2LEVEL or 2	Software Release: 5E7 and later. 2-Level COT and AC (Customer Originated Trace and Automatic Callback).
ACSR or A	Software Release: 5E5 and later Automatic Customer Station Rearrangement.
ASP or AS	Software Release: 5E8 and later. ASP (Advanced Services Platform) (previously PVN (Private Virtual Network)).
LASS or L	Software Release: 5E6 and later Local Area Signaling Services Selective Features Screen List Editing. Also used by Limited 2-Level COT/AC.
NPA_SP	Software Release: 5E13 and later. Numbering Plan Area Split Announcement.
OSPSDA or D	Software Release: 5E3 and later OSPS Directory Assistance.
OSPSTA or T	Software Release: 5E4(2) and later OSPS Toll and Assistance.
PVN or P	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASP". See the description under "ASP".
RAS or R	Software Release: 5E5 and later Remote Access Service.
TACCT	Software Release: 5E11 and later TDX (Toll Digital Exchange) account code.
VARRAF	Software Release: 5E13 and later. Variant Recorded Announcements Function.

Data Rules:

When APPLICATION is "VARRAF", LANGUAGE CODE must be entered.

When APPLICATION is not "VARRAF", LANGUAGE CODE must not be entered.

2.4 # DURATION

Description: Enter the expected duration of the phrase.

Required Field.

Valid Entries:

For 5E3 - 5E9(1): 1 - 255

For 5E9(2) and later: 1 - 7200 (seconds)

2.5 # PHRASE

Description: Enter the text equivalent of the phrase.

Required Field.

Valid Entries: 1 - 65 characters.

The following table shows the DURATION value and the PHRASE text that will be ODA assigned after certain PHRASE IDs are entered. The user may enter values to overwrite the ODA assignments.

Valid PHRASE Entries		
PHRASE ID	DURATION	Entries
1	1	zero (flat)
2	1	one (flat)
3	1	two (flat)
4	1	three (flat)
5	1	four (flat)
6	1	five (flat)

7	1	six (flat)
8	1	seven (flat)
9	1	eight (flat)
10	1	nine (flat)
11	1	oh (flat)
12	1	zero (falling)
13	1	one (falling)
14	1	two (falling)
15	1	three (falling)
16	1	four (falling)
17	1	five (falling)
18	1	six (falling)
19	1	seven (falling)
20	1	eight (falling)
21	1	nine (falling)
22	1	oh (falling)
23	2	area code
24	2	hundred
25	2	thousand
26	1	(quarter second pause)
27	1	(half second pause)
28	1	(full second pause)
29	1	Software Release: 5E4(2) and later. ten (flat)
30	1	Software Release: 5E4(2) and later. eleven (flat)
31	1	Software Release: 5E4(2) and later. twelve (flat)
32	1	Software Release: 5E4(2) and later. thirteen (flat)
33	1	Software Release: 5E4(2) and later. fourteen (flat)
34	1	Software Release: 5E4(2) and later. fifteen (flat)
35	1	Software Release: 5E4(2) and later. sixteen (flat)
36	1	Software Release: 5E4(2) and later. seventeen (flat)
37	1	Software Release: 5E4(2) and later. eighteen (flat)
38	1	Software Release: 5E4(2) and later. nineteen (flat)
39	1	Software Release: 5E4(2) and later. twenty (flat)
40	1	Software Release: 5E4(2) and later. thirty (flat)
41	1	Software Release: 5E4(2) and later. forty (flat)
42	1	Software Release: 5E4(2) and later. fifty (flat)
43	1	Software Release: 5E4(2) and later. sixty (flat)
44	1	Software Release: 5E4(2) and later. seventy (flat)
45	1	Software Release: 5E4(2) and later. eighty (flat)
46	1	Software Release: 5E4(2) and later. ninety (flat)

2.6 LANGUAGE CODE

Description: The LANGUAGE CODE field is used to specify the preferred language code using the phrase.

Default: See Default Input Data Provided By ODA figure.

Valid Entries:

For 5E14 and earlier: 1, 2, 6, 7

For 5E15 and later: 1 - 255

See tables below.

Valid LANGUAGE CODE Entries for 5E14 and Earlier	
Entry	Definition
Blank	No value.
1	English
2	French
6	Mandarin
7	Cantonese

Valid LANGUAGE CODE Entries for 5E15 and Later	
Entry	Definition
Blank	No value.
1	English
2	French
3	Spanish
4	German
5	Portuguese
6	Cantonese
7	Mandarin
8	Hangul (Korea)
9	Bahasa-Indonesia
10	Hindi
11	Urdu
12	Tagalog (Phillippines)
13	Youroba (West Africa)
14	Swahili
15	Gaelic
16	Hebrew
17	Nihongo (Japan)
18	Russian
19	Arabic
20	Dutch
21	Italian
22	Polish
23	Vietnamese
24	Greek
25	Yiddish
26	Thai
27	Laotian
28	Persian
29	French Creole
30	Armenian
31	Navaho
32	Hungarian
33	Mon-Khmer (Cambodian)
34	Gujarathi
35	Ukranian
36	Czech
37	Pennsylvania Dutch
38	Miao (Hmong)
39	Norwegian
40	Slovak
41	Swedish
42	Serbian
43	Kru
44	Rumanian
45	Lithuanian
46	Finnish
47	Punjabi

48	Formosan
49	Croatian
50	Bosian
51	Turkish
52	Llocano
53	Bangali
54	Danish
55	Flemish
56	Syrian
57	Tamil
58	Samoan
59	Malayalsmm
60	Cajun
61	Amharic

NOTE: For 5E15 and later, any four languages can be selected.

Data Rules:

For 5E13 and 5E14 Software Release.

When LANGUAGE CODE is 1, PHRASE ID must be 32768 - 32895, or 32896 - 33023.

When LANGUAGE CODE is 2, PHRASE ID must be 32768 - 32895, or 33024 - 33151.

When LANGUAGE CODE is 6, PHRASE ID must be 32768 - 32895, or 33152 - 33279.

When LANGUAGE CODE is 7, PHRASE ID must be 32768 - 32895, or 33280 - 33407.

APPLICATION	PHRASE	DURATION	PHRASE TEXT	SOFTWARE RELEASE
2LEVEL	00001	1	zero (flat)	5E7 and later
2LEVEL	00002	1	one (flat)	5E7 and later
2LEVEL	00003	1	two (flat)	5E7 and later
2LEVEL	00004	1	three (flat)	5E7 and later
2LEVEL	00005	1	four (flat)	5E7 and later
2LEVEL	00006	1	five (flat)	5E7 and later
2LEVEL	00007	1	six (flat)	5E7 and later
2LEVEL	00008	1	seven (flat)	5E7 and later
2LEVEL	00009	1	eight (flat)	5E7 and later
2LEVEL	00010	1	nine (flat)	5E7 and later
2LEVEL	00011	1	oh (flat)	5E7 and later
2LEVEL	00012	1	zero (falling)	5E7 and later
2LEVEL	00013	1	one (falling)	5E7 and later
2LEVEL	00014	1	two (falling)	5E7 and later
2LEVEL	00015	1	three (falling)	5E7 and later
2LEVEL	00016	1	four (falling)	5E7 and later
2LEVEL	00017	1	five (falling)	5E7 and later
2LEVEL	00018	1	six (falling)	5E7 and later
2LEVEL	00019	1	seven (falling)	5E7 and later
2LEVEL	00020	1	eight (falling)	5E7 and later
2LEVEL	00021	1	nine (falling)	5E7 and later
2LEVEL	00022	1	oh (falling)	5E7 and later
2LEVEL	00023	1	area code	5E7 and later
2LEVEL	00024	1	hundred	5E7 and later
2LEVEL	00025	1	thousand	5E7 and later
2LEVEL	00026	1	(quarter second pause)	5E7 and later
2LEVEL	00027	1	(half second pause)	5E7 and later
2LEVEL	00028	1	(full second pause)	5E7 and later
2LEVEL	00029	1	ten (flat)	5E7 and later
2LEVEL	00030	1	eleven (flat)	5E7 and later
2LEVEL	00031	1	twelve (flat)	5E7 and later
2LEVEL	00032	1	thirteen (flat)	5E7 and later
2LEVEL	00033	1	fourteen (flat)	5E7 and later
2LEVEL	00034	1	fifteen (flat)	5E7 and later
2LEVEL	00035	1	sixteen (flat)	5E7 and later
2LEVEL	00036	1	seventeen (flat)	5E7 and later

2LEVEL	00037	1	eighteen (flat)	5E7 and later
2LEVEL	00038	1	nineteen (flat)	5E7 and later
2LEVEL	00039	1	twenty (flat)	5E7 and later
2LEVEL	00040	1	thirty (flat)	5E7 and later
2LEVEL	00041	1	forty (flat)	5E7 and later
2LEVEL	00042	1	fifty (flat)	5E7 and later
2LEVEL	00043	1	sixty (flat)	5E7 and later
2LEVEL	00044	1	seventy (flat)	5E7 and later
2LEVEL	00045	1	eighty (flat)	5E7 and later
2LEVEL	00046	1	ninety (flat)	5E7 and later
2LEVEL	00065	1	We're sorry.	5E7 and later
2LEVEL	00098	2	(Prompt tone 300ms of 400HZ tone)	5E7 and later
2LEVEL	00104	1	This is	5E7 and later
2LEVEL	00105	2	your automatic callback service.	5E7 and later
2LEVEL	00106	2	your call return service.	5E7 and later
2LEVEL	00107	3	The number of your last incoming call is	5E7 and later
2LEVEL	00108	3	a private number and cannot be announced.	5E7 and later
2LEVEL	00109	2	The call was received	5E7 and later
2LEVEL	00110	1	at	5E7 and later
2LEVEL	00111	2	To activate	5E7 and later
2LEVEL	00112	2	automatic callback	5E7 and later
2LEVEL	00113	2	call return	5E7 and later
2LEVEL	00114	2	dial 1,	5E7 and later
2LEVEL	00115	2	otherwise hang up.	5E7 and later
2LEVEL	00116	3	Please dial 1 now or hang up.	5E7 and later
2LEVEL	00117	3	There will be a charge for this service.	5E7 and later
2LEVEL	00118	2	Please hang up now.	5E7 and later
2LEVEL	00119	3	You must dial one to activate	5E7 and later
2LEVEL	00120	1	the callback,	5E7 and later
2LEVEL	00121	2	the call return,	5E7 and later
2LEVEL	00122	3	your customer originated trace service.	5E7 and later
2LEVEL	00123	2	your call trace service.	5E7 and later
2LEVEL	00124	3	The charge for this service will be	5E7 and later
2LEVEL	00125	1	dollar (flat)	5E7 and later
2LEVEL	00126	1	dollars (flat)	5E7 and later
2LEVEL	00127	1	dollar. (falling)	5E7 and later
2LEVEL	00128	1	dollars. (falling)	5E7 and later
2LEVEL	00129	1	and	5E7 and later
2LEVEL	00130	1	cents. (falling)	5E7 and later
2LEVEL	00131	3	To trace your last incoming call,	5E7 and later
2LEVEL	00132	3	You must dial one to trace the call,	5E7 and later
2LEVEL	00133	1	January	5E7 and later
2LEVEL	00134	1	February	5E7 and later
2LEVEL	00135	1	March	5E7 and later
2LEVEL	00136	1	April	5E7 and later
2LEVEL	00137	1	May	5E7 and later
2LEVEL	00138	1	June	5E7 and later
2LEVEL	00139	1	July	5E7 and later
2LEVEL	00140	1	August	5E7 and later
2LEVEL	00141	1	September	5E7 and later
2LEVEL	00142	1	October	5E7 and later
2LEVEL	00143	1	November	5E7 and later
2LEVEL	00144	1	December	5E7 and later
2LEVEL	00145	1	a.m.	5E7 and later
2LEVEL	00146	1	p.m.	5E7 and later
2LEVEL	00147	1	1st	5E7 and later
2LEVEL	00148	1	2nd	5E7 and later
2LEVEL	00149	1	3rd	5E7 and later
2LEVEL	00150	1	4th	5E7 and later
2LEVEL	00151	1	5th	5E7 and later
2LEVEL	00152	1	6th	5E7 and later
2LEVEL	00153	1	7th	5E7 and later
2LEVEL	00154	1	8th	5E7 and later
2LEVEL	00155	1	9th	5E7 and later
2LEVEL	00156	1	10th	5E7 and later
2LEVEL	00157	1	11th	5E7 and later
2LEVEL	00158	1	12th	5E7 and later
2LEVEL	00159	1	13th	5E7 and later
2LEVEL	00160	1	14th	5E7 and later

2LEVEL	00161	1	15th	5E7 and later
2LEVEL	00162	1	16th	5E7 and later
2LEVEL	00163	1	17th	5E7 and later
2LEVEL	00164	1	18th	5E7 and later
2LEVEL	00165	1	19th	5E7 and later
2LEVEL	00166	1	20th	5E7 and later
2LEVEL	00167	1	30th	5E7 and later
2LEVEL	00168	3	Consult your written instructions and try again later.	5E7 and later
2LEVEL	00169	3	If you choose to trace your last incoming call,	5E7 and later
2LEVEL	00170	4	you will be charged a fee as described in your instruction guide.	5E7 and later
2LEVEL	00171	1	extension	5E7 and later
2LEVEL	00172	2	Customer Originated Trace.	5E7 and later
2LEVEL	00173	3	To trace the last call received,	5E7 and later
2LEVEL	00174	2	The last incoming number was	5E7 and later
2LEVEL	00175	2	This call was received on	5E7 and later
2LEVEL	00176	3	To activate Automatic Recall,	5E7 and later
2LEVEL	00177	3	The number of your last incoming call was	5E7 and later
ACSR	00001	1	zero (flat)	5E5 and later
ACSR	00002	1	one (flat)	5E5 and later
ACSR	00003	1	two (flat)	5E5 and later
ACSR	00004	1	three (flat)	5E5 and later
ACSR	00005	1	four (flat)	5E5 and later
ACSR	00006	1	five (flat)	5E5 and later
ACSR	00007	1	six (flat)	5E5 and later
ACSR	00008	1	seven (flat)	5E5 and later
ACSR	00009	1	eight (flat)	5E5 and later
ACSR	00010	1	nine (flat)	5E5 and later
ACSR	00011	1	oh (flat)	5E5 and later
ACSR	00012	1	zero (falling)	5E5 and later
ACSR	00013	1	one (falling)	5E5 and later
ACSR	00014	1	two (falling)	5E5 and later
ACSR	00015	1	three (falling)	5E5 and later
ACSR	00016	1	four (falling)	5E5 and later
ACSR	00017	1	five (falling)	5E5 and later
ACSR	00018	1	six (falling)	5E5 and later
ACSR	00019	1	seven (falling)	5E5 and later
ACSR	00020	1	eight (falling)	5E5 and later
ACSR	00021	1	nine (falling)	5E5 and later
ACSR	00022	1	oh (falling)	5E5 and later
ACSR	00023	2	area code	5E5 and later
ACSR	00024	2	hundred	5E5 and later
ACSR	00025	2	thousand	5E5 and later
ACSR	00026	1	(quarter second pause)	5E5 and later
ACSR	00027	1	(half second pause)	5E5 and later
ACSR	00028	1	(full second pause)	5E5 and later
ACSR	00029	1	ten (flat inflection)	5E5 and later
ACSR	00030	1	eleven (flat inflection)	5E5 and later
ACSR	00031	1	twelve (flat inflection)	5E5 and later
ACSR	00032	1	thirteen (flat inflection)	5E5 and later
ACSR	00033	1	fourteen (flat inflection)	5E5 and later
ACSR	00034	1	fifteen (flat inflection)	5E5 and later
ACSR	00035	1	sixteen (flat inflection)	5E5 and later
ACSR	00036	1	seventeen (flat inflection)	5E5 and later
ACSR	00037	1	eighteen (flat inflection)	5E5 and later
ACSR	00038	1	nineteen (flat inflection)	5E5 and later
ACSR	00039	1	twenty (flat inflection)	5E5 and later
ACSR	00040	1	thirty (flat inflection)	5E5 and later
ACSR	00041	1	forty (flat inflection)	5E5 and later
ACSR	00042	1	fifty (flat inflection)	5E5 and later
ACSR	00043	1	sixty (flat inflection)	5E5 and later
ACSR	00044	1	seventy (flat inflection)	5E5 and later
ACSR	00045	1	eighty (flat inflection)	5E5 and later
ACSR	00046	1	ninety (flat inflection)	5E5 and later
ACSR	00047	1	star (flat inflection)	5E5 and later
ACSR	00048	1	star (falling inflection)	5E5 and later
ACSR	00049	1	pound (flat inflection)	5E5 and later
ACSR	00050	1	star (falling inflection)	5E5 and later
ACSR	00052	2	The number you dialed,	5E5 and later

ACSR	00054	2	Please dial now	5E5 and later
ACSR	00063	3	If this number is correct, dial	5E5 and later
ACSR	00064	3	If this number is not correct, dial	5E5 and later
ACSR	00065	1	We're sorry.	5E5 and later
ACSR	00070	2	The number you dialed,	5E5 and later
ACSR	00081	3	If this number is correct, dial	5E5 and later
ACSR	00082	3	If this number is not correct, dial	5E5 and later
ACSR	00256	1	beep (138ms of 400Hz tone)	5E5 and later
ACSR	00257	2	Automatic Station Rearrangement (flat)	5E5 and later
ACSR	00258	2	Automatic Station Rearrangement (falling)	5E5 and later
ACSR	00259	5	but your request for Station Rearrangement cannot be accepted	5E5 and later
ACSR	00260	3	has become temporarily unavailable	5E5 and later
ACSR	00261	2	has been completed	5E5 and later
ACSR	00262	5	If you do not want to replace the present service, please hang up	5E5 and later
ACSR	00263	10	If you have a service identification number, please enter it now.	5E5 and later
ACSR	00264	5	In order to get service, you must contact your local telecommunications	5E5 and later
ACSR	00265	3	is not a valid telephone number for this feature	5E5 and later
ACSR	00266	2	is still being processed	5E5 and later
ACSR	00267	3	Please check to make sure we have the correct numbers	5E5 and later
ACSR	00268	4	Please enter your personal identification number now.	5E5 and later
ACSR	00269	2	Please hold on.	5E5 and later
ACSR	00270	3	Please re-enter your telephone number now.	5E5 and later
ACSR	00271	2	Service cannot be established.	5E5 and later
ACSR	00272	3	Service has been established on this line for	5E5 and later
ACSR	00273	2	Service will be established for	5E5 and later
ACSR	00274	6	Station Rearrangement will replace the phone number that is presently	5E5 and later
ACSR	00275	4	There is no Automatic Station Rearrangement request pending for	
ACSR	00276	4	The new telephone number for this line has not been confirmed.	
ACSR	00277	4	We cannot complete your Station Rearrangement request as dialed	
ACSR	00278	7	We have received many requests for Station Rearrangement and we	
ACSR	00279	5	When it has been completed, you will be called back with a record	5E5 and later
ACSR	00280	1	You have reached	5E5 and later
ACSR	00281	2	Your request for	5E5 and later
ACSR	00282	5	Thank you. Your Station Rearrangement should be completed in approximately	
ACSR	00283	3	Your service cannot be established using	5E5 and later
ACSR	00284	3	It should be completed in approximately	5E5 and later
ACSR	00285	1	minutes	5E5 and later
ACSR	00286	13	If you previously requested a Station Rearrangement, it should	5E5 and later
ACSR	00287	2	In order to move service for	5E5 and later
ACSR	00288	12	to this location, you must first reprogram this number in your	5E5 and later
ACSR	00393	3	an Automatic Station Rearrangement service.	5E7 and later
ACSR	00394	4	check the status of your rearrangement request.	5E7 and later
ACSR	00395	3	This service allows you to	5E7 and later
ACSR	00396	2	Please enter	5E7 and later
ACSR	00397	5	the telephone number for which you requested a Station Rearrangement	5E7 and later
ACSR	00398	3	The status of the Station Rearrangement for	5E7 and later
ACSR	00399	2	will be determined.	5E7 and later
ACSR	00400	2	cannot be determined	5E7 and later
ACSR	00401	2	from this line.	5E7 and later

ACSR	00402	3	cancel your rearrangement request.	5E7 and later
ACSR	00403	3	The Station Rearrangement of	5E7 and later
ACSR	00404	2	will be cancelled.	5E7 and later
ACSR	00405	4	your Station Rearrangement request cannot be cancelled (flat)	5E7 and later
ACSR	00406	4	your Station Rearrangement request cannot be cancelled (falling)	5E7 and later
ACSR	00407	8	If you previously requested a Station Rearrangement, it should not	5E7 and later
ACSR	00408	2	has been cancelled.	5E7 and later
ACSR	00409	7	If you have a service identification number, please enter it now.	5E7 and later
ACSR	00410	3	the service identification number or	5E7 and later
ASP (Note 1)	00001	1	zero (flat)	5E6 and later
ASP (Note 1)	00002	1	one (flat)	5E6 and later
ASP (Note 1)	00003	1	two (flat)	5E6 and later
ASP (Note 1)	00004	1	three (flat)	5E6 and later
ASP (Note 1)	00005	1	four (flat)	5E6 and later
ASP (Note 1)	00006	1	five (flat)	5E6 and later
ASP (Note 1)	00007	1	six (flat)	5E6 and later
ASP (Note 1)	00008	1	seven (flat)	5E6 and later
ASP (Note 1)	00009	1	eight (flat)	5E6 and later
ASP (Note 1)	00010	1	nine (flat)	5E6 and later
ASP (Note 1)	00011	1	oh (flat)	5E6 and later
ASP (Note 1)	00012	1	zero (falling)	5E6 and later
ASP (Note 1)	00013	1	one (falling)	5E6 and later
ASP (Note 1)	00014	1	two (falling)	5E6 and later
ASP (Note 1)	00015	1	three (falling)	5E6 and later
ASP (Note 1)	00016	1	four (falling)	5E6 and later
ASP (Note 1)	00017	1	five (falling)	5E6 and later
ASP (Note 1)	00018	1	six (falling)	5E6 and later
ASP (Note 1)	00019	1	seven (falling)	5E6 and later
ASP (Note 1)	00020	1	eight (falling)	5E6 and later
ASP (Note 1)	00021	1	nine (falling)	5E6 and later
ASP (Note 1)	00022	1	oh (falling)	5E6 and later
ASP (Note 1)	00023	1	your area code is	5E6 and later
ASP (Note 1)	00024	2	hundred	5E6 and later
ASP (Note 1)	00025	2	thousand	5E6 and later
ASP (Note 1)	00026	1	(quarter second pause)	5E6 and later
ASP (Note 1)	00027	1	(half second pause)	5E6 and later
ASP (Note 1)	00028	1	(full second pause)	5E6 and later
ASP (Note 1)	00029	1	ten (flat)	5E6 and later
ASP (Note 1)	00030	1	eleven (flat)	5E6 and later
ASP (Note 1)	00031	1	twelve (flat)	5E6 and later
ASP (Note 1)	00032	1	thirteen (flat)	5E6 and later
ASP (Note 1)	00033	1	fourteen (flat)	5E6 and later
ASP (Note 1)	00034	1	fifteen (flat)	5E6 and later
ASP (Note 1)	00035	1	sixteen (flat)	5E6 and later
ASP (Note 1)	00036	1	seventeen (flat)	5E6 and later
ASP (Note 1)	00037	1	eighteen (flat)	5E6 and later
ASP (Note 1)	00038	1	nineteen (flat)	5E6 and later
ASP (Note 1)	00039	1	twenty (flat)	5E6 and later
ASP (Note 1)	00040	1	thirty (flat)	5E6 and later
ASP (Note 1)	00041	1	forty (flat)	5E6 and later
ASP (Note 1)	00042	1	fifty (flat)	5E6 and later
ASP (Note 1)	00043	1	sixty (flat)	5E6 and later
ASP (Note 1)	00044	1	seventy (flat)	5E6 and later
ASP (Note 1)	00045	1	eighty (flat)	5E6 and later
ASP (Note 1)	00046	1	ninety (flat)	5E6 and later
ASP (Note 1)	00047	11	Dial Tone	5E6 and later
ASP (Note 1)	00048	11	Recall Dial Tone	5E6 and later
ASP (Note 1)	00049	21	Reorder Tone	5E6 and later
ASP (Note 1)	00050	1	We're sorry.	5E6 and later
ASP (Note 1)	00051	3	We cannot complete your call at this time.	5E6 and later
ASP (Note 1)	00052	3	Please hang up and try your call again later.	5E6 and later
ASP (Note 1)	00053	2	The number you have dialed	5E6 and later
ASP (Note 1)	00054	2	is not correct.	5E6 and later
ASP (Note 1)	00055	2	has been disconnected.	5E6 and later

ASP (Note 1)	00056	3	The call you are attempting is not authorized.	5E6 and later
ASP (Note 1)	00057	3	We cannot complete your call as dialed.	5E6 and later
ASP (Note 1)	00058	3	Please hang up, check the number	5E6 and later
ASP (Note 1)	00059	2	Please dial now.	5E6 and later
ASP (Note 1)	00060	3	Dial your Personal Identification Number.	5E6 and later
ASP (Note 1)	00061	4	The Personal Identification Number you have dialed is not valid.	
ASP (Note 1)	00062	3	Dial your Personal Identification Number again.	5E6 and later
ASP (Note 1)	00063	2	Please dial the number to be called.	5E6 and later
ASP (Note 1)	00064	4	The digits you dialed are not a valid telephone number.	5E6 and later
ASP (Note 1)	00065	3	Please dial the number to be called again.	5E6 and later
ASP (Note 1)	00066	3	Please dial the authorization code.	5E6 and later
ASP (Note 1)	00067	4	The authorization code you have dialed is not valid.	5E6 and later
ASP (Note 1)	00068	3	Please dial the authorization code again now.	5E6 and later
ASP (Note 1)	00069	3	The number you have dialed has been changed.	5E6 and later
ASP (Note 1)	00070	4	Please call your private network operator for assistance.	5E6 and later
LASS	00001	1	zero (flat)	5E6 and later
LASS	00002	1	one (flat)	5E6 and later
LASS	00003	1	two (flat)	5E6 and later
LASS	00004	1	three (flat)	5E6 and later
LASS	00005	1	four (flat)	5E6 and later
LASS	00006	1	five (flat)	5E6 and later
LASS	00007	1	six (flat)	5E6 and later
LASS	00008	1	seven (flat)	5E6 and later
LASS	00009	1	eight (flat)	5E6 and later
LASS	00010	1	nine (flat)	5E6 and later
LASS	00011	1	oh (flat)	5E6 and later
LASS	00012	1	zero (falling)	5E6 and later
LASS	00013	1	one (falling)	5E6 and later
LASS	00014	1	two (falling)	5E6 and later
LASS	00015	1	three (falling)	5E6 and later
LASS	00016	1	four (falling)	5E6 and later
LASS	00017	1	five (falling)	5E6 and later
LASS	00018	1	six (falling)	5E6 and later
LASS	00019	1	seven (falling)	5E6 and later
LASS	00020	1	eight (falling)	5E6 and later
LASS	00021	1	nine (falling)	5E6 and later
LASS	00022	1	oh (falling)	5E6 and later
LASS	00023	2	area code	5E6 and later
LASS	00024	2	hundred	5E6 and later
LASS	00025	2	thousand	5E6 and later
LASS	00026	1	(quarter second pause)	5E6 and later
LASS	00027	1	(half second pause)	5E6 and later
LASS	00028	1	(full second pause)	5E6 and later
LASS	00029	1	ten (flat inflection)	5E6 and later
LASS	00030	1	eleven (flat inflection)	5E6 and later
LASS	00031	1	twelve (flat inflection)	5E6 and later
LASS	00032	1	thirteen (flat inflection)	5E6 and later
LASS	00033	1	fourteen (flat inflection)	5E6 and later
LASS	00034	1	fifteen (flat inflection)	5E6 and later
LASS	00035	1	sixteen (flat inflection)	5E6 and later
LASS	00036	1	seventeen (flat inflection)	5E6 and later
LASS	00037	1	eighteen (flat inflection)	5E6 and later
LASS	00038	1	nineteen (flat inflection)	5E6 and later
LASS	00039	1	twenty (flat inflection)	5E6 and later
LASS	00040	1	thirty (flat inflection)	5E6 and later
LASS	00041	1	forty (flat inflection)	5E6 and later
LASS	00042	1	fifty (flat inflection)	5E6 and later
LASS	00043	1	sixty (flat inflection)	5E6 and later
LASS	00044	1	seventy (flat inflection)	5E6 and later
LASS	00045	1	eighty (flat inflection)	5E6 and later
LASS	00046	1	ninety (flat inflection)	5E6 and later
LASS	00289	1	is already	5E6 and later
LASS	00290	1	(Prompt tone 300ms of 400Hz tone)	5E6 and later
LASS	00291	1	(confirmation tone three 300ms of 400Hz tone)	5E6 and later
LASS	00292	1	There is	5E6 and later
LASS	00293	1	Next	5E6 and later

LASS	00294	1	Then	5E6 and later
LASS	00295	1	Please	5E6 and later
LASS	00296	1	Extension	5E6 and later
LASS	00297	2	Welcome to	5E6 and later
LASS	00298	2	Dial one	5E6 and later
LASS	00299	2	Dial zero	5E6 and later
LASS	00300	2	Dial zero one	5E6 and later
LASS	00301	2	Dial one one	5E6 and later
LASS	00302	2	Dial one two	5E6 and later
LASS	00303	2	We're sorry	5E6 and later
LASS	00304	2	Is now on	5E6 and later
LASS	00305	2	Is now off	5E6 and later
LASS	00306	2	There are no	5E6 and later
LASS	00307	1	There are	5E6 and later
LASS	00308	2	entries on your list	5E6 and later
LASS	00309	1	Including	5E6 and later
LASS	00310	2	A private entry	5E6 and later
LASS	00311	2	private entries	5E6 and later
LASS	00312	2	on your list	5E6 and later
LASS	00313	2	Please start again	5E6 and later
LASS	00314	2	Please dial now	5E6 and later
LASS	00315	2	The number you have added is	5E6 and later
LASS	00316	2	The digits you have dialed	5E6 and later
LASS	00317	2	If this is correct	5E6 and later
LASS	00318	2	If this is not correct	5E6 and later
LASS	00319	2	To add an entry	5E6 and later
LASS	00320	2	To remove an entry	5E6 and later
LASS	00321	2	Press the number sign key	5E6 and later
LASS	00322	2	Press the star key	5E6 and later
LASS	00323	4	Please try adding the number again in a few minutes	5E6 and later
LASS	00324	2	Please dial the number to be added	5E6 and later
LASS	00325	3	Please dial the number to be removed	5E6 and later
LASS	00326	3	Then press the number sign key again	5E6 and later
LASS	00327	3	Then press the star key again	5E6 and later
LASS	00328	3	Are not a valid telephone number	5E6 and later
LASS	00329	2	Are not a valid command	5E6 and later
LASS	00330	3	You have cleared the digits dialed	5E6 and later
LASS	00331	3	Your Computer Access Restriction service	5E6 and later
LASS	00332	3	Your Selective Call Forwarding service	5E6 and later
LASS	00333	3	Your Selective Call Acceptance service	5E6 and later
LASS	00334	3	Your Selective Call Rejection service	5E6 and later
LASS	00335	3	Your Selective Distinctive Alert service	5E6 and later
LASS	00336	3	Unaccepted callers will hear a recording	5E6 and later
LASS	00337	3	Unaccepted calls will be forwarded to	5E6 and later
LASS	00338	4	If you want unaccepted callers to hear a recording	5E6 and later
LASS	00339	4	If you want to forward unaccepted calls to another number	
LASS	00340	3	Please continue or dial zero for help	5E6 and later
LASS	00341	3	You must dial a phone number after dialing	5E6 and later
LASS	00342	3	The number sign key or the star key	5E6 and later
LASS	00343	3	one two or one one	5E6 and later
LASS	00344	4	Dial the number to which you want unaccepted calls forwarded	
LASS	00345	4	Please dial the number to which you want your calls forwarded	
LASS	00346	2	This is the end of your list	5E6 and later
LASS	00347	3	The number you have removed is	5E6 and later
LASS	00348	3	Your calls will be forwarded to	5E6 and later
LASS	00349	2	Please hang up now	5E6 and later
LASS	00350	4	Consult your written instructions and try again later	5E6 and later
LASS	00351	3	The number you have dialed is incorrect	5E6 and later
LASS	00352	2	Please wait for the prompt tone	5E6 and later
LASS	00353	4	Before dialing the number to be added or to be removed	5E6 and later
LASS	00354	3	To hear the entries on your list	5E6 and later
LASS	00355	4	To remove all entries dial zero eight	5E6 and later
LASS	00356	4	To remove just the private entries dial zero nine	5E6 and later
LASS	00357	2	One entry	5E6 and later

LASS	00358	2	One private entry	5E6 and later
LASS	00359	3	To turn this service off, dial 3	5E6 and later
LASS	00360	3	To turn this service on, dial 3	5E6 and later
LASS	00361	2	To save your list hang up	5E6 and later
LASS	00362	3	This service is being interrupted	5E6 and later
LASS	00363	3	Please hang up and try again in a few minutes	5E6 and later
LASS	00364	5	Your list is full. You must remove an entry before adding another	
LASS	00365	3	In order to turn-on this service	5E6 and later
LASS	00366	3	You must add entries to your list	5E6 and later
LASS	00367	3	You have dialed too few digits	5E6 and later
LASS	00368	3	You have dialed too many digits	5E6 and later
LASS	00369	4	You may dial during the announcements for faster service	5E6 and later
LASS	00370	3	You may dial now or wait for instructions	5E6 and later
LASS	00371	4	To add, remove	5E6 and later
LASS	00372	3	dial according to instructions	5E6 and later
LASS	00373	2	To hear these instructions	5E6 and later
LASS	00374	3	To hear these instructions repeated	5E6 and later
LASS	00375	4	The number you have dialed is not available with this service	
LASS	00376	3	The number is not available now	5E6 and later
LASS	00377	3	The first entry on your list is	5E6 and later
LASS	00378	3	To reject the last calling party	5E6 and later
LASS	00379	2	If this number is correct	5E6 and later
LASS	00380	3	To turn your service on dial 3	5E6 and later
LASS	00381	4	To turn your service off dial 3	5E6 and later
LASS	00382	1	more	5E6 and later
LASS	00383	2	This number	5E6 and later
LASS	00384	1	as	5E6 and later
LASS	00385	3	The number to be removed is not	5E6 and later
LASS	00386	2	private entries.	5E6 and later
LASS	00387	2	on your list.	5E6 and later
LASS	00388	3	your Computer Access Restriction service.	5E6 and later
LASS	00389	3	your Selective Call Forwarding service.	5E6 and later
LASS	00390	3	your Selective Call Acceptance service.	5E6 and later
LASS	00391	2	one private entry.	5E6 and later
LASS	00411	2	on your list.	5E7 and later
LASS	00412	2	The number	5E7 and later
LASS	00413	2	you have dialed,	5E7 and later
LASS	00414	2	is not permitted.	5E7 and later
LASS	00415	2	The digits dialed	5E7 and later
LASS	00416	2	Please continue,	5E7 and later
LASS	00417	1	or	5E7 and later
LASS	00418	3	dial zero for instructions.	5E7 and later
LASS	00419	2	hang up.	5E7 and later
LASS	00420	4	You must dial a telephone number after dialing	5E7 and later
LASS	00421	3	Your list is now empty.	5E7 and later
LASS	00422	2	dial one.	5E7 and later
LASS	00423	3	If this number is not correct,	5E7 and later
LASS	00424	2	dial zero.	5E7 and later
LASS	00425	3	To remove one or more entries,	5E7 and later
LASS	00426	3	To turn on this service,	5E7 and later
LASS	00427	4	you must add an entry to your list.	5E7 and later
LASS	00428	3	When you have finished,	5E7 and later
LASS	00429	4	of the last calling party is not available.	5E7 and later
LASS	00430	5	To delete an entry, dial zero, seven as soon as you hear it.	5E7 and later
LASS	00431	2	Repeating,	5E7 and later
LASS	00432	1	and	5E7 and later
LASS	00433	3	Dial the number to be removed,	5E7 and later
LASS	00434	4	To remove all entries, dial zero, eight,	5E7 and later
LASS	00435	5	To remove just the private entries, dial zero, nine,	5E7 and later
LASS	00436	3	Please try other options	5E7 and later
LASS	00437	3	one, two or one, one.	5E7 and later
LASS	00438	2	dial one, two.	5E7 and later
LASS	00439	2	dial one, one.	5E7 and later
LASS	00440	2	dial one, two	5E7 and later

LASS	00441	3	Dial the number to be added,	5E7 and later
LASS	00442	3	To add the last calling party,	5E7 and later
LASS	00443	2	dial zero, one,	5E7 and later
LASS	00444	3	Your Simultaneous Ringing service.	5E16(2) and later
OSPSDA	00001	1	zero (flat)	5E5 and later
OSPSDA	00002	1	one (flat)	5E5 and later
OSPSDA	00003	1	two (flat)	5E5 and later
OSPSDA	00004	1	three (flat)	5E5 and later
OSPSDA	00005	1	four (flat)	5E5 and later
OSPSDA	00006	1	five (flat)	5E5 and later
OSPSDA	00007	1	six (flat)	5E5 and later
OSPSDA	00008	1	seven (flat)	5E5 and later
OSPSDA	00009	1	eight (flat)	5E5 and later
OSPSDA	00010	1	nine (flat)	5E5 and later
OSPSDA	00011	1	oh (flat)	5E5 and later
OSPSDA	00012	1	zero (falling)	5E5 and later
OSPSDA	00013	1	one (falling)	5E5 and later
OSPSDA	00014	1	two (falling)	5E5 and later
OSPSDA	00015	1	three (falling)	5E5 and later
OSPSDA	00016	1	four (falling)	5E5 and later
OSPSDA	00017	1	five (falling)	5E5 and later
OSPSDA	00018	1	six (falling)	5E5 and later
OSPSDA	00019	1	seven (falling)	5E5 and later
OSPSDA	00020	1	eight (falling)	5E5 and later
OSPSDA	00021	1	nine (falling)	5E5 and later
OSPSDA	00022	1	oh (falling)	5E5 and later
OSPSDA	00023	1	area code	5E5 and later
OSPSDA	00024	1	hundred	5E5 and later
OSPSDA	00025	1	thousand	5E5 and later
OSPSDA	00026	1	(quarter second pause)	5E5 and later
OSPSDA	00027	1	(half second pause)	5E5 and later
OSPSDA	00028	1	(full second pause)	5E5 and later
OSPSDA	00029	2	the number	5E5 and later
OSPSDA	00030	2	the number is	5E5 and later
OSPSDA	00031	3	the first number is	5E5 and later
OSPSDA	00032	4	an alternate number is	5E5 and later
OSPSDA	00033	3	the area code is	5E5 and later
OSPSDA	00034	4	dial one and then the number	5E5 and later
OSPSDA	00035	1	coin	5E5 and later
OSPSDA	00036	2	not a coin	5E5 and later
OSPSDA	00037	4	is assigned to a coin phone	5E5 and later
OSPSDA	00038	4	is not assigned to a coin phone	5E5 and later
OSPSDA	00039	5	the reservation and information number is	5E5 and later
OSPSDA	00040	7	the night, Saturday, Sunday and holiday numbers	5E5 and later
OSPSDA	00041	4	the number may not yet be connected	5E5 and later
OSPSDA	00042	4	you may call the number collect	5E5 and later
OSPSDA	00043	4	collect calls will be accepted	5E5 and later
OSPSDA	00044	4	to place catalog orders only	5E5 and later
OSPSDA	00045	10	in the future, you can obtain area code information without charge from your telephone directory or by calling the operator	5E5 and later
OSPSDA	00046	7	at the customer's request, the number is not published, and is not listed in our records	5E5 and later
OSPSDA	00047	3	if you have further questions	5E5 and later
OSPSDA	00048	4	a Directory Assistance Operator will return	5E5 and later
OSPSDA	00049	3	please hang up and redial	5E5 and later
OSPSDA	00050	4	the toll-free number is	5E5 and later
OSPSDA	00051	1	repeat	5E5 and later
OSPSDA	00052	3	for more information	5E5 only
OSPSDA	00052	1	high tone for ISDN ACS	5E6 and later
OSPSDA	00053	2	please call	5E5 only
OSPSDA	00054	4	or visit your local	5E5 only
OSPSDA	00055	2	phone center	5E5 only
OSPSDA	00056	4	toll free number is	5E5 only
OSPSDA	00057	2	AT&T	5E5 only
OSPSDA	00058	2	MCI	5E5 only
OSPSDA	00059	3	Teleconnect	5E5 only
OSPSDA	00060	3	U.S.Sprint	5E5 only

OSPSTA	00061	2	Teltec	5E5 only
OSPSTA	00062	2	Microtel	5E5 only
OSPSTA	00063	4	Houston NTW	5E5 only
OSPSTA	00064	4	Western Union	5E5 only
OSPSTA	00065	3	Telecom	5E5 only
OSPSTA	00066	2	GTE	5E5 only
OSPSTA	00067	4	Rochester	5E5 only
OSPSTA	00001	1	zero (flat)	5E5 and later
OSPSTA	00002	1	one (flat)	5E5 and later
OSPSTA	00003	1	two (flat)	5E5 and later
OSPSTA	00004	1	three (flat)	5E5 and later
OSPSTA	00005	1	four (flat)	5E5 and later
OSPSTA	00006	1	five (flat)	5E5 and later
OSPSTA	00007	1	six (flat)	5E5 and later
OSPSTA	00008	1	seven (flat)	5E5 and later
OSPSTA	00009	1	eight (flat)	5E5 and later
OSPSTA	00010	1	nine (flat)	5E5 and later
OSPSTA	00011	1	oh (flat)	5E5 and later
OSPSTA	00012	1	zero (falling)	5E5 and later
OSPSTA	00013	1	one (falling)	5E5 and later
OSPSTA	00014	1	two (falling)	5E5 and later
OSPSTA	00015	1	three (falling)	5E5 and later
OSPSTA	00016	1	four (falling)	5E5 and later
OSPSTA	00017	1	five (falling)	5E5 and later
OSPSTA	00018	1	six (falling)	5E5 and later
OSPSTA	00019	1	seven (falling)	5E5 and later
OSPSTA	00020	1	eight (falling)	5E5 and later
OSPSTA	00021	1	nine (falling)	5E5 and later
OSPSTA	00022	1	oh (falling)	5E5 and later
OSPSTA	00023	1	area code	5E5 and later
OSPSTA	00024	1	hundred	5E5 and later
OSPSTA	00025	1	thousand	5E5 and later
OSPSTA	00026	1	(quarter second pause)	5E5 and later
OSPSTA	00027	1	(half second pause)	5E5 and later
OSPSTA	00028	1	(full second pause)	5E5 and later
OSPSTA	00029	1	ten (flat inflection)	5E5 and later
OSPSTA	00030	1	eleven (flat inflection)	5E5 and later
OSPSTA	00031	1	twelve (flat inflection)	5E5 and later
OSPSTA	00032	1	thirteen (flat inflection)	5E5 and later
OSPSTA	00033	1	fourteen (flat inflection)	5E5 and later
OSPSTA	00034	1	fifteen (flat inflection)	5E5 and later
OSPSTA	00035	1	sixteen (flat inflection)	5E5 and later
OSPSTA	00036	1	seventeen (flat inflection)	5E5 and later
OSPSTA	00037	1	eighteen (flat inflection)	5E5 and later
OSPSTA	00038	1	nineteen (flat inflection)	5E5 and later
OSPSTA	00039	1	twenty (flat inflection)	5E5 and later
OSPSTA	00040	1	thirty (flat inflection)	5E5 and later
OSPSTA	00041	1	forty (flat inflection)	5E5 and later
OSPSTA	00042	1	fifty (flat inflection)	5E5 and later
OSPSTA	00043	1	sixty (flat inflection)	5E5 and later
OSPSTA	00044	1	seventy (flat inflection)	5E5 and later
OSPSTA	00045	1	eighty (flat inflection)	5E5 and later
OSPSTA	00046	1	ninety (flat inflection)	5E5 and later
OSPSTA	00047	4	Please dial your card number - used as a prefix	5E5 and later
OSPSTA	00048	4	or zero for an operator now.	5E5 and later
OSPSTA	00049	1	again now.	5E5 and later
OSPSTA	00050	4	The card number you have dialed is not valid.	5E5 and later
OSPSTA	00051	4	Please hang up and dial again	5E5 and later
OSPSTA	00052	1	Thank-you.	5E5 and later
OSPSTA	00053	4	Please dial the number you are calling.	5E5 and later
OSPSTA	00054	4	The number you have called is not correct.	5E5 and later
OSPSTA	00055	2	Please dial now.	5E5 and later
OSPSTA	00056	4	The number you have dialed is not correct.	5E5 and later
OSPSTA	00057	1	Valid number	5E5 and later
OSPSTA	00058	1	Invalid number	5E5 and later
OSPSTA	00059	2	Unrestricted PIN	5E5 and later
OSPSTA	00060	2	Restricted PIN	5E5 and later
OSPSTA	00061	2	RAO	5E5 and later
OSPSTA	00062	1	unavailable	5E5 and later

OSPSTA	00063	2	Please dial again now.	5E5 and later
OSPSTA	00064	2	Please hang up.	5E5 and later
OSPSTA	00065	4	Please hang up and dial direct.	5E5 and later
OSPSTA	00066	7	This number cannot be dialed as a sequence call.	5E5 and later
OSPSTA	00067	4	Thank-you for using AT&T.	5E5 and later
OSPSTA	00068	3	You may dial another	5E5 and later
OSPSTA	00069	2	AT&T handled call - flat inflection	5E5 and later
OSPSTA	00070	2	local phone company call - flat inflection	5E5 and later
OSPSTA	00071	1	now	5E5 and later
OSPSTA	00072	7	You may continue your sequence calling only with another	
OSPSTA	00073	5	Your call cannot be completed at this time.	5E5 and later
OSPSTA	00074	5	Please hang up and try your call again later.	5E5 and later
OSPSTA	00075	5	Access to AT&T network is not authorized. Please call	
OSPSTA	00076	2	Billing allowed	5E5 and later
OSPSTA	00077	2	Invalid billing	5E5 and later
OSPSTA	00078	4	You may dial another number now.	5E5 and later
OSPSTA	00079	1	bong	5E5 and later
OSPSTA	00080	4	Please dial your card number. (standalone)	5E5 and later
OSPSTA	00081	2	AT&T handled call (falling)	5E5 and later
OSPSTA	00082	2	local phone company call (falling)	5E5 and later
OSPSTA	00083	1	dollar (flat)	5E5 and later
OSPSTA	00084	1	dollars (flat)	5E5 and later
OSPSTA	00085	1	dollar (falling)	5E5 and later
OSPSTA	00086	1	dollars (falling)	5E5 and later
OSPSTA	00087	1	cent (flat)	5E5 and later
OSPSTA	00088	1	cents (flat)	5E5 and later
OSPSTA	00089	1	cent (falling)	5E5 and later
OSPSTA	00090	1	cents (falling)	5E5 and later
OSPSTA	00091	1	second (flat)	5E5 and later
OSPSTA	00092	1	seconds (flat)	5E5 and later
OSPSTA	00093	1	second (falling)	5E5 and later
OSPSTA	00094	1	seconds (falling)	5E5 and later
OSPSTA	00095	1	minute (flat)	5E5 and later
OSPSTA	00096	1	minutes (flat)	5E5 and later
OSPSTA	00097	1	minute (falling)	5E5 and later
OSPSTA	00098	1	minutes (falling)	5E5 and later
OSPSTA	00099	1	for the	5E5 and later
OSPSTA	00100	1	credit (flat)	5E5 and later
OSPSTA	00101	1	credit (falling)	5E5 and later
OSPSTA	00102	1	please	5E5 and later
OSPSTA	00103	1	first	5E5 and later
OSPSTA	00104	1	more (flat)	5E5 and later
OSPSTA	00105	1	more (falling)	5E5 and later
OSPSTA	00106	1	and	5E5 and later
OSPSTA	00107	1	coin	5E5 and later
OSPSTA	00108	1	test	5E5 and later
OSPSTA	00109	1	nickel	5E5 and later
OSPSTA	00110	1	dime	5E5 and later
OSPSTA	00111	1	quarter	5E5 and later
OSPSTA	00112	1	past	5E5 and later
OSPSTA	00113	2	Please deposit	5E5 and later
OSPSTA	00114	2	has ended	5E5 and later
OSPSTA	00115	4	Please signal when through.	5E5 and later
OSPSTA	00116	2	plus tax for	5E5 and later
OSPSTA	00117	2	the charges are	5E5 and later
OSPSTA	00118	2	you have	5E5 and later
OSPSTA	00119	2	for this call	5E5 and later
OSPSTA	00120	2	towards overtime	5E5 and later
OSPSTA	00121	2	Thank you (flat)	5E5 and later
OSPSTA	00122	2	for using	5E5 and later
OSPSTA	00123	2	Timing error.	5E5 and later
OSPSTA	00124	1	(alerting tone)	5E5 and later
OSPSTA	00125	4	AT&T	5E5 and later
OSPSTA	00126	4	Northwestern Bell	5E5 and later
OSPSTA	00127	4	Ohio Bell	5E5 and later
OSPSTA	00128	4	New Jersey Bell	5E5 and later
OSPSTA	00129	4	Wisconsin Telephone	5E5 and later
OSPSTA	00130	4	C&P	5E5 and later

OSPSTA	00131	3	your local telephone company	5E5 and later
OSPSTA	00132	2	GTE	5E5 and later
OSPSTA	00133	2	for calling	5E5 and later
OSPSTA	00134	2	For this call	5E5 and later
OSPSTA	00135	3	the AT&T card number	5E5 and later
OSPSTA	00136	3	the calling card number	5E5 and later
OSPSTA	00137	4	you have dialed is not allowed	5E5 and later
OSPSTA	00138	2	Please dial	5E5 and later
OSPSTA	00139	6	your local telephone company calling card number now	
OSPSTA	00140	4	your AT&T card number now	5E5 and later
OSPSTA	00141	2	or arrange	5E5 and later
OSPSTA	00142	2	other billing	5E5 and later
OSPSTA	00143	3	other AT&T billing	5E5 and later
OSPSTA	00144	4	Please hang up and arrange	5E5 and later
OSPSTA	00145	5	Please dial another telephone number now	5E5 and later
OSPSTA	00146	9	The number you dialed cannot be billed to this AT&T card	
OSPSTA	00147	2	RPC	5E5 and later
OSPSTA	00148	3	the card number	5E5 and later
OSPSTA	00149	6	This call cannot be billed to this AT&T card	5E5 and later
OSPSTA	00150	6	We're sorry, your card number is invalid	5E5 and later
OSPSTA	00151	6	Please redial your complete card number now	5E5 and later
OSPSTA	00152	2	Number invalid	5E5 and later
OSPSTA	00153	2	Number valid	5E5 and later
OSPSTA	00154	2	subaccount	5E5 and later
OSPSTA	00155	3	Thank you for using	5E5 and later
OSPSTA	00156	2	We're sorry	5E5 and later
OSPSTA	00157	7	The service you have requested is not available	5E5 and later
OSPSTA	00158	2	Please hold for	5E6 and later
OSPSTA	00159	1	operator.	5E6 and later
OSPSTA	00160	1	Please hold,	5E6 and later
OSPSTA	00161	3	operator will be connected to this call promptly.	5E6 and later
OSPSTA	00162	1	an	5E6 and later
OSPSTA	00163	2	a telephone company	5E6 and later
OSPSTA	00164	1	an AT&T	5E6 and later
OSPSTA	00165	2	a United Telephone	5E6 and later
OSPSTA	00166	2	a New York Telephone	5E6 and later
OSPSTA	00167	2	a New England Telephone	5E6 and later
OSPSTA	00168	2	an S.N.E.T.	5E6 and later
OSPSTA	00169	2	a New Jersey Bell	5E6 and later
OSPSTA	00170	2	a Cincinnati Bell	5E6 and later
OSPSTA	00171	2	a US West Communications	5E6 and later
OSPSTA	00172	1	a GTE	5E6 and later
OSPSTA	00173	2	a Pacific Bell	5E6 and later
OSPSTA	00174	2	a Nevada Bell	5E6 and later
OSPSTA	00175	1	hour (flat)	5E6 and later
OSPSTA	00176	1	hour. (falling)	5E6 and later
OSPSTA	00177	1	hours (flat)	5E6 and later
OSPSTA	00178	1	hours. (falling)	5E6 and later
OSPSTA	00179	2	the next available	5E6 and later
OSPSTA	00180	1	ACS Tone	5E6 and later
OSPSTA	00181	1	for the first	5E6 and later
OSPSTA	00182	1	for the past	5E6 and later
OSPSTA	00183	1	a Northwestern Bell	5E6 and later
OSPSTA	00184	1	an Ohio Bell	5E6 and later
OSPSTA	00185	2	a Wisconsin Telephone	5E6 and later
OSPSTA	00186	1	a C & P	5E6 and later
OSPSTA	00187	2	a Whidbey Telephone Company	5E6 and later
OSPSTA	00188	2	a Roseville Telephone company	5E6 and later
OSPSTA	00189	1	an Illinois Bell	5E6 and later
OSPSTA	00190	1	a Michigan Bell	5E6 and later
OSPSTA	00191	1	a Southwestern Bell	5E6 and later
OSPSTA	00192	2	a Rochester Telephone	5E6 and later
OSPSTA	00193	1	United Telephone	5E6 and later
OSPSTA	00194	1	New York Telephone	5E6 and later
OSPSTA	00195	2	New England Telephone	5E6 and later
OSPSTA	00196	1	S.N.E.T.	5E6 and later
OSPSTA	00197	1	Cincinnati Bell	5E6 and later
OSPSTA	00198	2	U.S. West Communications	5E6 and later

OSPSTA	00199	1	Pacific Bell	5E6 and later
OSPSTA	00200	1	Nevada Bell	5E6 and later
OSPSTA	00201	2	Whidbey Telephone company	5E6 and later
OSPSTA	00202	2	Roseville Telephone	5E6 and later
OSPSTA	00203	1	Illinois Bell	5E6 and later
OSPSTA	00204	1	Michigan Bell	5E6 and later
OSPSTA	00205	1	Southwestern Bell	5E6 and later
OSPSTA	00206	2	Rochester Telephone	5E6 and later
OSPSTA	00207	1	...and PIN...	5E7 and later
OSPSTA	00208	1	...and PIN.	5E7 and later
OSPSTA	00209	4	...your AT &T card number and PIN now	5E7 and later
OSPSTA	00210	3	This call cannot be billed to this card	5E7 and later
OSPSTA	00211	4	Please redial your complete card number and PIN now	5E7 and later
OSPSTA	00212	4	Validation service is not provided for this card	5E7 and later
OSPSTA	00213	3	This card cannot be used for this service	5E7 and later
OSPSTA	00214	3	...a different card number and PIN now	5E7 and later
OSPSTA	00215	3	Please dial your PIN now	5E7 and later
OSPSTA	00216	3	Please hang up and contact your card issuer	5E7 and later
OSPSTA	00256	1	Southern Bell.	5E7 and later
OSPSTA	00257	1	a Southern Bell	5E7 and later
OSPSTA	00258	1	South Central Bell	5E7 and later
OSPSTA	00259	1	a South Central Bell	5E7 and later
OSPSTA	00260	2	Buzz..Buzz (2 busy tones)	5E7 and later
OSPSTA	00261	3	Ring (Audible Ring)	5E7 and later
OSPSTA	00262	1	Please don't hang up.	5E7 and later
OSPSTA	00263	1	The phone is busy	5E7 and later
OSPSTA	00264	2	Your party is not answering	5E7 and later
OSPSTA	00265	1	but	5E7 and later
OSPSTA	00266	1	for a charge	5E7 and later
OSPSTA	00267	1	for a charge.	5E7 and later
OSPSTA	00268	2	for an additional charge	5E7 and later
OSPSTA	00269	2	for an additional charge.	5E7 and later
OSPSTA	00270	1	of	5E7 and later
OSPSTA	00271	1	you may leave a message	5E7 and later
OSPSTA	00272	1	you may leave a message.	5E7 and later
OSPSTA	00273	2	you may leave a voice message	5E7 and later
OSPSTA	00274	2	you may leave a voice message.	5E7 and later
OSPSTA	00275	2	using a Messaging Service.	5E7 and later
OSPSTA	00276	2	using a Voice Messaging Service.	5E7 and later
OSPSTA	00277	2	For AT&T's	5E7 and later
OSPSTA	00278	1	To leave a message	5E7 and later
OSPSTA	00279	3	using AT&T's VoiceMark Messaging Service	5E7 and later
OSPSTA	00280	2	using AT&T's	5E7 and later
OSPSTA	00281	1	Voice	5E7 and later
OSPSTA	00282	1	Messaging Service	5E7 and later
OSPSTA	00283	1	press pound	5E7 and later
OSPSTA	00284	1	press star	5E7 and later
OSPSTA	00285	4	followed by the Access Code of your Messaging Service Provider.	5E7 and later
OSPSTA	00286	4	followed by Service Code of another Messaging Service provider.	5E7 and later
OSPSTA	00287	4	followed by the Access Code of another Messaging Service provider	5E7 and later
OSPSTA	00288	1	or	5E7 and later
OSPSTA	00289	1	USA Direct	5E7 and later
OSPSTA	00289	1	USA Direct	5E7 only
OSPSTA	00290	3	your local telephone company calling card number	5E8 and later
OSPSTA	00291	2	your AT&T card number	5E8 and later
OSPSTA	00292	3	Please dial another PIN	5E8 and later
OSPSTA	00293	4	or press pound to retain your previous PIN.	5E8 and later
OSPSTA	00294	2	The PIN	5E8 and later
OSPSTA	00295	3	alerting tone for CAS PL	5E8 and later
OSPSTA	00296	3	Due to calling card restrictions	5E8 and later
OSPSTA	00297	3	this call will be terminated in	5E8 and later
OSPSTA	00298	2	From this phone	5E8 and later
OSPSTA	00299	1	your call	5E8 and later
OSPSTA	00300	2	to this nine hundred number	5E8 and later
OSPSTA	00301	3	must be billed to a card number.	5E8 and later

OSPSTA	00302	2	cannot be completed	5E8 and later
OSPSTA	00303	2	from this phone.	5E8 and later
OSPSTA	00304	3	Please redial your card number	5E8 and later
OSPSTA	00305	3	or press zero for an operator now.	5E8 and later
OSPSTA	00306	4	Please hold for an operator or hang up now	5E8 and later
OSPSTA	00307	1	hour (flat)	5E8 and later
OSPSTA	00308	1	hour.(falling)	5E8 and later
OSPSTA	00309	1	hours (flat)	5E8 and later
OSPSTA	00310	1	hours.(falling)	5E8 and later
OSPSTA	00311	1	for the first	5E8 and later
OSPSTA	00312	1	for the past	5E8 and later
OSPSTA	00313	2	Alascom	5E9(1) and later
OSPSTA	00314	2	an Alascom	5E9(1) and later
OSPSTA	00315	2	Lincoln Telephone	5E9(1) and later
OSPSTA	00316	3	a Lincoln Telephone	5E9(1) and later
OSPSTA	00317	4	The area code and seven-digit number that you are calling	5E9(1) and later
OSPSTA	00318	2	An area code must	5E9(1) and later
OSPSTA	00319	3	be dialed to complete this call	5E9(1) and later
OSPSTA	00320	1	now	5E9(1) and later
OSPSTA	00321	2	Collect check.	5E9(1) and later
OSPSTA	00322	2	Third number check.	5E9(1) and later
OSPSTA	00323	2	Unrecognized.	5E9(1) and later
OSPSTA	00324	2	Denied billing.	5E9(1) and later
PVN	Note 1			
RAS	00001	1	zero (flat)	5E5 and later
RAS	00002	1	one (flat)	5E5 and later
RAS	00003	1	two (flat)	5E5 and later
RAS	00004	1	three (flat)	5E5 and later
RAS	00005	1	four (flat)	5E5 and later
RAS	00006	1	five (flat)	5E5 and later
RAS	00007	1	six (flat)	5E5 and later
RAS	00008	1	seven (flat)	5E5 and later
RAS	00009	1	eight (flat)	5E5 and later
RAS	00010	1	nine (flat)	5E5 and later
RAS	00011	1	oh (flat)	5E5 and later
RAS	00012	1	zero (falling)	5E5 and later
RAS	00013	1	one (falling)	5E5 and later
RAS	00014	1	two (falling)	5E5 and later
RAS	00015	1	three (falling)	5E5 and later
RAS	00016	1	four (falling)	5E5 and later
RAS	00017	1	five (falling)	5E5 and later
RAS	00018	1	six (falling)	5E5 and later
RAS	00019	1	seven (falling)	5E5 and later
RAS	00020	1	eight (falling)	5E5 and later
RAS	00021	1	nine (falling)	5E5 and later
RAS	00022	1	oh (falling)	5E5 and later
RAS	00023	2	area code	5E5 and later
RAS	00024	2	hundred	5E5 and later
RAS	00025	2	thousand	5E5 and later
RAS	00026	1	(quarter second pause)	5E5 and later
RAS	00027	1	(half second pause)	5E5 and later
RAS	00028	1	(full second pause)	5E5 and later
RAS	00029	1	ten (flat inflection)	5E5 and later
RAS	00030	1	eleven (flat inflection)	5E5 and later
RAS	00031	1	twelve (flat inflection)	5E5 and later
RAS	00032	1	thirteen (flat inflection)	5E5 and later
RAS	00033	1	fourteen (flat inflection)	5E5 and later
RAS	00034	1	fifteen (flat inflection)	5E5 and later
RAS	00035	1	sixteen (flat inflection)	5E5 and later
RAS	00036	1	seventeen (flat inflection)	5E5 and later
RAS	00037	1	eighteen (flat inflection)	5E5 and later
RAS	00038	1	nineteen (flat inflection)	5E5 and later
RAS	00039	1	twenty (flat inflection)	5E5 and later
RAS	00040	1	thirty (flat inflection)	5E5 and later
RAS	00041	1	forty (flat inflection)	5E5 and later
RAS	00042	1	fifty (flat inflection)	5E5 and later
RAS	00043	1	sixty (flat inflection)	5E5 and later
RAS	00044	1	seventy (flat inflection)	5E5 and later

RAS	00045	1	eighty (flat inflection)	5E5 and later
RAS	00046	1	ninety (flat inflection)	5E5 and later
RAS	00047	1	star (flat inflection)	5E5 and later
RAS	00048	1	star (falling inflection)	5E5 and later
RAS	00049	1	pound (flat inflection)	5E5 and later
RAS	00050	1	pound (falling inflection)	5E5 and later
RAS	00051	3	This is your Remote Access Service.	5E5 and later
RAS	00052	3	Please use a touch tone telephone only	5E5 and later
RAS	00053	6	You may now dial your seven digit home or office telephone number	
RAS	00054	2	Please dial now.	5E5 and later
RAS	00055	2	The number you have dialed is	5E5 and later
RAS	00056	3	your Personal Identification Number.	5E5 and later
RAS	00057	2	and enter a new number.	5E5 and later
RAS	00058	3	Please dial a feature code now.	5E5 and later
RAS	00059	2	You have accessed the	5E5 and later
RAS	00060	2	Call Forwarding Activation	5E5 and later
RAS	00061	3	Call Forwarding Deactivation	5E5 and later
RAS	00062	1	feature.	5E5 and later
RAS	00063	3	To confirm this feature, dial	5E5 and later
RAS	00064	3	To try a new feature dial	5E5 and later
RAS	00065	1	We're sorry.	5E5 and later
RAS	00066	3	We cannot complete your call as dialed.	5E5 and later
RAS	00067	2	Please hang up and dial again.	5E5 and later
RAS	00068	4	Or for more information, consult your written instructions.	5E5 and later
RAS	00069	3	Dial your Personal Identification Number.	5E5 and later
RAS	00070	2	The number you dialed,	5E5 and later
RAS	00071	4	is not a valid feature code for remote access in this area	
RAS	00072	4	For more information, please consult your written instructions.	5E5 and later
RAS	00073	4	Dial the business extension which has remote access service.	
RAS	00074	4	You may hang up, or dial another feature code now.	5E5 and later
RAS	00075	3	is not presently authorized to	5E5 and later
RAS	00076	5	For more information, please consult your local telephone office.	5E5 and later
RAS	00077	3	This is your call forwarding service	5E5 and later
RAS	00078	4	Please dial the number to which you want your calls forwarded.	
RAS	00079	7	If you must dial 1 or and area code to reach this number then do	
RAS	00080	3	Your calls will be forwarded to	5E5 and later
RAS	00081	3	If this number is correct, dial	5E5 and later
RAS	00082	3	If this number is not correct, dial	5E5 and later
RAS	00083	3	Your calls are now forwarded.	5E5 and later
RAS	00084	3	Your calls are currently forwarded to	5E5 and later
RAS	00085	6	You must deactivate call forwarding before you activate it again.	
RAS	00086	4	You may hang up or dial the deactivation code now.	5E5 and later
RAS	00087	3	You have not dialed enough digits.	5E5 and later
RAS	00088	2	Please start again.	5E5 and later
RAS	00089	5	We cannot activate your call forwarding service because too may..	
RAS	00090	3	Please hang up now and try again later.	5E5 and later
RAS	00091	4	Your call can't be completed do to temporary service problems.	
RAS	00092	3	Please hang up and try again later.	5E5 and later
RAS	00093	3	Your calls are not currently being forwarded.	5E5 and later
RAS	00094	2	The digits you dialed	5E5 and later
RAS	00095	3	are not a valid telephone number.	5E5 and later
RAS	00096	2	Please start again.	5E5 and later
RAS	00097	3	Your calls will no longer be forwarded.	5E5 and later
RAS	00098	2	(Prompt tone 300ms of 400HZ tone)	5E5 and later

RAS	00099	2	(ACS tone 1 sec. of 480HZ tone)	5E5 and later
RAS	00100	5	For faster service, please enter the pound sign when you are done	5E5 and later
RAS	00101	2	Please dial only,	5E5 and later
RAS	00102	1	digits.	5E5 and later
RAS	00103	2	Call forwarding	5E5 and later
RAS	00178	6	You may now dial your home or office telephone number	5E12 and later
RAS	00179	3	Simultaneous Ringing Activation	5E16(2) and later
RAS	00180	3	Simultaneous Ringing deactivation	5E16(2) and later
RAS	00181	4	Your Simultaneous Ringing feature is now activated	5E16(2) and later
RAS	00182	5	Your Simultaneous Ringing feature is now deactivated	5E16(2) and later
TACCT	00001	1	zero (flat)	5E11 and later
TACCT	00002	1	one (flat)	5E11 and later
TACCT	00003	1	two (flat)	5E11 and later
TACCT	00004	1	three (flat)	5E11 and later
TACCT	00005	1	four (flat)	5E11 and later
TACCT	00006	1	five (flat)	5E11 and later
TACCT	00007	1	six (flat)	5E11 and later
TACCT	00008	1	seven (flat)	5E11 and later
TACCT	00009	1	eight (flat)	5E11 and later
TACCT	00010	1	nine (flat)	5E11 and later
TACCT	00011	1	oh (flat)	5E11 and later
TACCT	00012	1	zero (falling)	5E11 and later
TACCT	00013	1	one (falling)	5E11 and later
TACCT	00014	1	two (falling)	5E11 and later
TACCT	00015	1	three (falling)	5E11 and later
TACCT	00016	1	four (falling)	5E11 and later
TACCT	00017	1	five (falling)	5E11 and later
TACCT	00018	1	six (falling)	5E11 and later
TACCT	00019	1	seven (falling)	5E11 and later
TACCT	00020	1	eight (falling)	5E11 and later
TACCT	00021	1	nine (falling)	5E11 and later
TACCT	00022	1	oh (falling)	5E11 and later
TACCT	00023	1	area code	5E11 and later
TACCT	00024	1	hundred	5E11 and later
TACCT	00025	1	thousand	5E11 and later
TACCT	00026	1	quarter second pause	5E11 and later
TACCT	00027	1	half second pause	5E11 and later
TACCT	00028	1	full second pause	5E11 and later
TACCT	00029	1	ten	5E11 and later
TACCT	00030	1	eleven	5E11 and later
TACCT	00031	1	twelve	5E11 and later
TACCT	00032	1	thirteen	5E11 and later
TACCT	00033	1	fourteen	5E11 and later
TACCT	00034	1	fifteen	5E11 and later
TACCT	00035	1	sixteen	5E11 and later
TACCT	00036	1	seventeen	5E11 and later
TACCT	00037	1	eighteen	5E11 and later
TACCT	00038	1	nineteen	5E11 and later
TACCT	00039	1	twenty	5E11 and later
TACCT	00040	1	thirty	5E11 and later
TACCT	00041	1	forty	5E11 and later
TACCT	00042	1	fifty	5E11 and later
TACCT	00043	1	sixty	5E11 and later
TACCT	00044	1	seventy	5E11 and later
TACCT	00045	1	eighty	5E11 and later
TACCT	00046	1	ninety	5E11 and later
TACCT	00047	2	Please enter your	5E11 and later
TACCT	00048	2	Digit account code	5E11 and later
TACCT	00049	1	Thank you	5E11 and later

Note 1: ASP applications were named PVN in 5E6 - 5E7.

Figure 1 DEFAULT INPUT DATA PROVIDED BY ODA

APPLICATION	PHRASE	DURATION	PHRASE TEXT	SOFTWARE

				RELEASE
LASS	65	1	We're sorry.	5E6 only
LASS	98	2	(Prompt tone 300ms of 400Hz tone)	5E6 only
LASS	104	1	This is	5E6 only
LASS	105	2	your automatic callback service.	5E6 only
LASS	106	2	your call return service.	5E6 only
LASS	107	3	The number of your last incoming call is	5E6 only
LASS	108	3	a private number and cannot be announced.	5E6 only
LASS	109	2	The call was received	5E6 only
LASS	110	1	at	5E6 only
LASS	111	2	To activate	5E6 only
LASS	112	2	automatic callback	5E6 only
LASS	113	2	call return	5E6 only
LASS	114	2	dial 1	5E6 only
LASS	115	2	otherwise hang up.	5E6 only
LASS	116	3	Please dial 1 now or hang up.	5E6 only
LASS	117	3	There will be a charge for this service.	5E6 only
LASS	118	2	Please hang up now.	5E6 only
LASS	119	3	You must dial one to activate	5E6 only
LASS	120	1	the callback.	5E6 only
LASS	121	2	the call return.	5E6 only
LASS	122	3	your customer originated trace service.	5E6 only
LASS	123	2	your call trace service.	5E6 only
LASS	124	3	The charge for this service will be	5E6 only
LASS	125	1	dollar (flat)	5E6 only
LASS	126	1	dollars (flat)	5E6 only
LASS	127	1	dollar. (falling)	5E6 only
LASS	128	1	dollars. (falling)	5E6 only
LASS	129	1	and	5E6 only
LASS	130	1	cents. (falling)	5E6 only
LASS	131	3	To trace your last incoming call,	5E6 only
LASS	132	3	You must dial one to trace the call.	5E6 only
LASS	133	1	January	5E6 only
LASS	134	1	February	5E6 only
LASS	135	1	March	5E6 only
LASS	136	1	April	5E6 only
LASS	137	1	May	5E6 only
LASS	138	1	June	5E6 only
LASS	139	1	July	5E6 only
LASS	140	1	August	5E6 only
LASS	141	1	September	5E6 only
LASS	142	1	October	5E6 only
LASS	143	1	November	5E6 only
LASS	144	1	December	5E6 only
LASS	145	1	a.m.	5E6 only
LASS	146	1	p.m.	5E6 only
LASS	147	1	1st	5E6 only
LASS	148	1	2nd	5E6 only
LASS	149	1	3rd	5E6 only
LASS	150	1	4th	5E6 only
LASS	151	1	5th	5E6 only
LASS	152	1	6th	5E6 only
LASS	153	1	7th	5E6 only
LASS	154	1	8th	5E6 only
LASS	155	1	9th	5E6 only
LASS	156	1	10th	5E6 only
LASS	157	1	11th	5E6 only
LASS	158	1	12th	5E6 only
LASS	159	1	13th	5E6 only
LASS	160	1	14th	5E6 only
LASS	161	1	15th	5E6 only
LASS	162	1	16th	5E6 only
LASS	163	1	17th	5E6 only
LASS	164	1	18th	5E6 only
LASS	165	1	19th	5E6 only
LASS	166	1	20th	5E6 only
LASS	167	1	30th	5E6 only
LASS	168	3	Consult your written instructions and try again later.	5E6 only
LASS	169	3	If you choose to trace your last incoming call,	5E6 only

LASS	170	4	you will be charged a fee as described in your instruction guide.	5E6 only
LASS	171	1	extension	5E6 only
LASS	172	2	Customer Originated Trace.	5E6 only
LASS	173	3	To trace the last call received,	5E6 only
LASS	174	2	The last incoming number was	5E6 only
LASS	175	2	This call was received on	5E6 only
LASS	176	3	To activate Automatic Recall,	5E6 only
LASS	177	3	The number of your last incoming call was	5E6 only

Figure 2 SAMPLE DATA FOR LIMITED 2-LEVEL COT/AC SECURED FEATURE

APPLICATION	PHRASE	DURATION	PHRASE TEXT	SOFTWARE RELEASE
LASS	65	1	We're sorry.	5E6 only
LASS	98	2	(Prompt tone 300ms of 400Hz tone)	5E6 only
LASS	104	1	This is	5E6 only
LASS	105	2	your automatic callback service.	5E6 only
LASS	106	2	your call return service.	5E6 only
LASS	107	3	The number of your last incoming call is	5E6 only
LASS	108	3	a private number and cannot be announced.	5E6 only
LASS	109	2	The call was received	5E6 only
LASS	110	1	at	5E6 only
LASS	111	2	To activate	5E6 only
LASS	112	2	automatic callback	5E6 only
LASS	113	2	call return	5E6 only
LASS	114	2	dial 1	5E6 only
LASS	115	2	otherwise hang up.	5E6 only
LASS	116	3	Please dial 1 now or hang up.	5E6 only
LASS	117	3	There will be a charge for this service.	5E6 only
LASS	118	2	Please hang up now.	5E6 only
LASS	119	3	You must dial one to activate	5E6 only
LASS	120	1	the callback.	5E6 only
LASS	121	2	the call return.	5E6 only
LASS	122	3	your customer originated trace service.	5E6 only
LASS	123	2	your call trace service.	5E6 only
LASS	124	3	The charge for this service will be	5E6 only
LASS	125	1	dollar (flat)	5E6 only
LASS	126	1	dollars (flat)	5E6 only
LASS	127	1	dollar. (falling)	5E6 only
LASS	128	1	dollars.(falling)	5E6 only
LASS	129	1	and	5E6 only
LASS	130	1	cents. (falling)	5E6 only
LASS	131	3	To trace your last incoming call,	5E6 only
LASS	132	3	You must dial one to trace the call.	5E6 only
LASS	133	1	January	5E6 only
LASS	134	1	February	5E6 only
LASS	135	1	March	5E6 only
LASS	136	1	April	5E6 only
LASS	137	1	May	5E6 only
LASS	138	1	June	5E6 only
LASS	139	1	July	5E6 only
LASS	140	1	August	5E6 only
LASS	141	1	September	5E6 only
LASS	142	1	October	5E6 only
LASS	143	1	November	5E6 only
LASS	144	1	December	5E6 only
LASS	145	1	a.m.	5E6 only
LASS	146	1	p.m.	5E6 only
LASS	147	1	1st	5E6 only
LASS	148	1	2nd	5E6 only
LASS	149	1	3rd	5E6 only
LASS	150	1	4th	5E6 only
LASS	151	1	5th	5E6 only
LASS	152	1	6th	5E6 only
LASS	153	1	7th	5E6 only
LASS	154	1	8th	5E6 only
LASS	155	1	9th	5E6 only

LASS	156	1	10th	5E6 only
LASS	157	1	11th	5E6 only
LASS	158	1	12th	5E6 only
LASS	159	1	13th	5E6 only
LASS	160	1	14th	5E6 only
LASS	161	1	15th	5E6 only
LASS	162	1	16th	5E6 only
LASS	163	1	17th	5E6 only
LASS	164	1	18th	5E6 only
LASS	165	1	19th	5E6 only
LASS	166	1	20th	5E6 only
LASS	167	1	30th	5E6 only
LASS	168	3	Consult your written instructions and try again later.	5E6 only
LASS	169	3	If you choose to trace your last incoming call,	5E6 only
LASS	170	4	you will be charged a fee as described in your instruction guide.	5E6 only
LASS	171	1	extension	5E6 only
LASS	172	2	Customer Originated Trace.	5E6 only
LASS	173	3	To trace the last call received,	5E6 only
LASS	174	2	The last incoming number was	5E6 only
LASS	175	2	This call was received on	5E6 only
LASS	176	3	To activate Automatic Recall,	5E6 only
LASS	177	3	The number of your last incoming call was	5E6 only

Figure 3 SAMPLE DATA FOR LIMITED 2-LEVEL COT/AC SECURED FEATURE

```

phrase                               5ESS Switch      _
(5534)                             OFFICE DATA ADMINISTRATION
                                   ANNOUNCEMENT PHRASE LIST

*1. PHRASE ID      _____
*2. APPLICATION OSPSDA
#3. DURATION       _____
#4. PHRASE TEXT    _____

```

Figure 4 SAMPLE PHRASE FORM 5E9(2) - 5E12 SOFTWARE RELEASES

```

phrase                               5ESS Switch      _
(5534)                             OFFICE DATA ADMINISTRATION
                                   ANNOUNCEMENT PHRASE LIST

*1. PHRASE ID      _____
*2. APPLICATION OSPSDA
#3. DURATION       _____
#4. PHRASE TEXT    _____

```

5. LANGUAGE CODE _____

Figure 5 SAMPLE PHRASE FORM 5E13 AND 5E14 SOFTWARE RELEASES

```

phrase                                5ESS Switch
                                     OFFICE DATA ADMINISTRATION
(5534)                               ANNOUNCEMENT PHRASE LIST

*1. PHRASE ID      _____
*2. APPLICATION    OSPSDA
#3. DURATION       _____
#4. PHRASE TEXT

```

Figure 6 SAMPLE PHRASE FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5AI: 5535 RECORD NETWORK ANNOUNCEMENTS FORM - SSPANN

1. GENERAL

The 5535 Record is available with 5E4(2) and later Software Releases. It is used to specify a failure announcement code and either the route index to an announcement trunk group to be used to supply the appropriate message or pointers to customized header and trailer announcements.

The customized header and trailer announcements, specified by CUST HDRID and CUST TRLID, are for use by ASP (Advanced Services Platform) announcement codes. With 5E9(2) and earlier, the ANNC RTI is not used by ASP announcement codes. The route index for the ASP DSU2/RAF is derived from the FIXRT form (5301-1 Record) where FIXED ROUTE TYPE is "NSANNC". With 5E10 and later, ASP announcement codes may specify an ANNC RTI. Specifying an ANNC RTI allows routing to 13A announcements.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.17.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * ANNC CODE

Description: Enter the integer value of the Network Announcement Code that provides the appropriate failure message.

The announcement code will be determined by the SCP (Service Control Point) location and returned to the office where the call was routed from. Each announcement code, that can be returned by the SCP, must have either an associated route index or an associated customized header ID specified.

Required Field.

Valid Entries:

For 5E11 and earlier: 0 - 255

For 5E12 and later: 0 - 65535

2.3 SM

Description: This field is used only by Recent Change.

2.4 ANNC RTI

Description: Enter the route index number of the trunk group that will route the caller to the appropriate announcement.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and later: 1 - 4095

Data Rules

The route index must appear on an RTIDX form (5303 Record) and the associated trunk group must be defined on a TKGRP form (5202 Record).

If a CUST HDRID is not entered, then an ANNC RTI must be entered.

2.5 CUST HDRID

Description: Enter the customized announcement header ID associated with this ANNC CODE. The specified announcement header will be played when this ANNC CODE is received back from the SCP.

Valid Entries:

For 5E11 and earlier: 1 - 255

For 5E12 and later: 1 - 65535

Data Rules:

Since a CUST HDRID is only used by ASP (Advanced Services Platform, previously Private Virtual Network, PVN) located on an SSP (Service Switching Point), a CUST HDRID cannot be entered unless PVN OFC on the OFCOPT form (5509 Record) is set to "SSP".

Every CUST HDRID must be defined as the HEADER ID on an ANNHD form (5531 Record) where APPLICATION is set to "ASP". If an ANNC RTI is not entered, then a CUST HDRID must be entered.

2.6 CUST TRLID

Description: Enter the customized announcement trailer ID associated with this ANNC CODE. The specified announcement trailer will be played when this ANNC CODE is received back from the SCP.

Valid Entries:

For 5E11 and earlier: 1 - 255

For 5E12 and later: 1 - 65535

Data Rules:

Since a CUST TRLID is only used by ASP (Advanced Services Platform; previously Private Virtual Network, PVN) located on a SSP (Service Switching Point), a CUST TRLID cannot be entered unless PVN OFC on the OFCOPT form (5509 Record) is set to "SSP".

Every CUST TRLID must be defined as the TRAILER ID on an ANNTR form (5533 Record) where APPLICATION is set to "ASP". A CUST TRLID cannot be entered unless a CUST HDRID has also been entered.

2.7 TONE TYPE

Description: The TONE TYPE field provides the 400Hz carrier tone as the network tone. This field was added to support 400Hz Carrier Tone feature. The 400Hz Carrier Tone feature provides a basic enhancement to the Long Distance Platform, it relies on the condition that SFID 165 is unlocked. For more information on this feature see Division 2, Section 4A165.

Software Release: 5E13 and later

Valid Entries: Blank or CARRIER

Data Rules:

One and only one of ANNC RTI, CUST HDRID or TONE TYPE must be entered and must not be zero.

When the SSPANN forms have TONE TYPE entered, the ASP OFC field on the ASPOPT form must be set to "SSP".

When the SSPANN form has TONE TYPE set to "CARRIER", the CARRIER TONE on the OFCOPT form must be set to "Y".

sspann	5ESS Switch	—
(5535)	OFFICE DATA ADMINISTRATION	
	NETWORK ANNOUNCEMENTS	

*1. ANNC CODE _____
SM _____

13A ANNC

3. ANNC RTI _____

RAF/SAS ANNC

4. CUST HDRID 00000

5. CUST TRLID 00000

UTG TONE

6. TONE TYPE _____

Figure 1 SAMPLE SSPANN FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5AJ: 5536 RECORD STRUCTURE CODE FAMILY FORM - SCFAM

1. GENERAL

The 5536 Record is available with 5E4(2) and later Software Releases.

This form is used to specify Call Code to structure code family. This is saved in a call record from the TCAP (Transaction Capability Application Part) message sent from a remote data base.

In 5E4(2), this form was used for an SSP (Service Switching Point) office to process Number Services calls.

In 5E5 and later, this form can be used for an SSP office or an office serving as an ACP (Action Control Point) for an SDN (Software Defined Network). In 5E6 and later, it can also be used for a Leased Network ACP.

In 5E6 and later, this form can also be used for an SSP office which supports ASP (Advanced Services Platform) calls.

To determine if the office is an SSP office (with or without ASP support) or an ACP office, please refer to the OFCOPT form. An SSP office without ASP support will have "Y" entered in the SERV SWITCH PT field and "NONE" entered in the ASP OFC (5E8 and later) PVN OFC (5E6 - 5E7) field on the OFCOPT form. An SSP office with ASP support will have "SSP" entered in the ASP (PVN) OFC field on the OFCOPT form (the value entered in SERV SWITCH PT does not matter in this case). An ACP office will have a "Y" entered in the ACT PT SDN field on the OFCOPT form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.18.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * CALL CODE

Description: Enter the integer representation of the digits contained in the TCAP message sent from the SCP for Number Services calls. The values entered must be coordinated with the data base administrator for the SCP installation.

Valid Entries: 0 - 999

2.3 # STRUCT CODE FAMILY

Description: Enter the structure code family. This indicates the structure code to be used to bill the call.

Required Field.

Valid STRUCT CODE FAMILY Entries	
Entry	Definition
APSDN	Software Release: 5E5 and later. Software Defined Network structure code family. This entry is used if the call code returned from the data base is to be billed as a SDN call at an ACP, and can only be used for an ACP office.
ASP	Software Release: 5E8 and later.

	ASP (Advanced Services Platform, previously PVN (Private Virtual Network)) structure code family. This entry is used if the call code returned from the SCP is to be billed as an ASP call at an SSP, and can only be used for an SSP office with ASP support; that is, ASP OFC (PVN OFC for 5E6 - 5E7) on the OFCOPT form (5509 Record) is set to "SSP".
IC	Interexchange Carrier structure code family. This entry is used if the call code returned from the SCP is to be billed for an IC (Interexchange Carrier), and can only be used for a SSP office.
LNACP	Software Release: 5E6 and later. LN (Leased Network) structure code family. This entry is used if the call code returned from the Network Control Point data base is to be billed as a LN call at the ACP. This structure code family is only valid for LNACP. If an SCFAM form is entered with STRUCT CODE FAMILY equal to "LNACP", there must be an OFCOPT form with ACTION POINT set to "Y".
PVN	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASP". See the description under "ASP".
TELCO	Local Telephone Company structure code family. This entry is used if the call code returned from the SCP is to be billed for a Local Telephone Company, and can only be used for a SSP office.

```

scfam                5ESS Switch      —
(5536)              OFFICE DATA ADMINISTRATION
                   STRUCTURE CODE FAMILY

```

```

*1. CALL CODE        555
#2. STRUCT CODE FAMILY IC

```

Figure 1 SAMPLE SCFAM FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 5AK: 5537 RECORD DIRECT SIGNALING APPLICATION FORM - DSAPP

1. GENERAL

The 5537 Record is available with the 5E4(2) and later Software Releases. It is used to specify the Direct Signaling Application Type, Transaction Type and the Subsystem Number used by the direct signaling trunks which use the CCS7 (Common Channel Signaling System 7) signaling protocols.

1.1 CNI Database Caution

The signaling application view 8.17 (DSAPP form (5537 Record)) must be entered for each CCS7 based feature. The 15.10 and 15.11 Recent Change views must be inserted prior to the 8.17 view.

The CNI database is not a relational database, therefore it does not directly interface with the 5ESS-2000 Switch relational database. Due to the differences between the two databases, if the 8.17 view is populated prior to the 15.10 and 15.11 views, the application is marked as prohibited and no call processing will occur for those application type calls. If 8.17 is entered first, the views must be deleted and then reinserted in the proper sequence. For more information on provisioning CNI, see Division 9.

1.2 Recent Change

The corresponding Recent Change View for this form is 8.17.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 *APPLIC

Description: Enter the Direct Signaling Application type.

Valid APPLIC Entries	
Entry	Definition
ACND or AC	Software Release: 5E6 and later. CNAM (Analog Calling Name Delivery).
AINR0D1 or AI	Software Release: 5E9(1) and later. AIN (Advanced Intelligent Network) Release 0.1B.
APSDN or AP	Software Release: 5E5 and later. 5ESS-2000 Switch ACP (Action Control Point) for a SDN (Software Defined Network).
ASP or AS	Software Release: 5E8 and later. ASP (Advanced Services Platform) (previously PVN (Private Virtual Network)).
AT1 or AT	Software Release: 5E5 and later. ANSI (American National Standards Institute) TCAP (Transaction Capabilities Application Part) Type 1 signaling to a database. For 5E5 and 5E6, this signaling queries the LIDB (Line Information Database). For 5E7 and later, queries are sent to the BVD (Billing Validation Database).
CCS7 or C	Software Release: 5E7 and later. CCS7 signaling to a CAS/NCP database.
DCIS or D	Software Release: 5E5 and later. Destination-routed CCIS6.
ICCV or IC	Software Release: 5E7 and later.

	ICCV signaling to a foreign database.
ISVM or IS	Software Release: 5E7 and later. Inter-Switch Voice Messaging.
LALT	Software Release: 5E8 and later. LIDB Alternate Destination. This is the direct signaling application type for the EABS Alternate Routing secured feature. For more information on this feature, see Division 2, Section 4A86.
LASS or LAS	Software Release: 5E5 and later. Local Area Signaling Services.
LIDB or L	Software Release: 5E5 and later. Line Interface Data Base usage.
LNACP or N	Software Release: 5E6 and later. Leased Network Action Control Point.
NCD	Software Release: 5E9(1) and later. Network Call Denial. (Currently not used)
NS800 or NS	Number Service 800 usage.
PVN or P	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASP". See the description under "ASP".
OLNP or OL	Software Release: 5E12 and later. OSPS Local Number Portability
ONAI	Software Release: 5E9(1) and later. OSPS Network Access Interrupt
TNAI	Toll Network Access Interrupt Application.

Data Rules:

For 5E8 and earlier, if "NS800" or "PSDN" is entered for APPLIC, the OFCOPT form (5509 Record) must have either SERV SWITCH PT or ACT PT SDN set to "Y".

If "PVN" is entered for APPLIC, the OFCOPT form (5509 Record) must have ASP OFC (5E8 and later) (PVN OFC for 5E6 - 5E7) set to "SSP".

For 5E9(1) and later, if APPLIC equals "ASP" or "AINR0D1", ASP OFC on the OFCOPT form must equal "SSP".

The APPLIC field on this form may be set to "ACND" only when the CNAM (Analog Calling Name Delivery) secured feature has been purchased and the secured feature ID 40 has been set to "S" (for 5E9(1) and later, SFID 40 must have ACT equal to "Y") on the SFSYS form (5713-1 Record).

For 5E9(1) and later, since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, APPLIC must not equal "AINR0D1" until SFID 126 ACT on the SFSYS form has been set to "Y".

2.3 *LATA

Description: Enter the Local Access and Transport Area number. The maximum number of LATAs that can be entered is 28. This field, and DPC 1 and DPC 2 fields, are used to support the TCAP Improvements for Switches Spanning Multiple LATAs feature to extend the operation of the current LASS features to support lines (or groups of lines) in LATAs other than the LATA number specified on the OFCOPT form (5509 Record). See Division 2, Section 4A171.

Software Release: 5E11 and later
Valid Entries: 0 - 255

Data Rules:

If LATA is entered,

- there must exist another DSAPP form with the same APPLIC entry and the LATA field is not entered.
- APPLIC must be "ACND" or "LASS".
- DPC 1 and DPC 2 must be entered.
- SUB SYS NBR must not be entered.
- the ACT field for SFID 171 must be activated on the SFSYS form.

If LATA is not entered,

- DPC 1 and DPC 2 must not be entered.
- SUB SYS NBR must be entered.

2.4 #TRANS TYPE

Description: Enter the Transaction Type to be used with Direct Signaling Applications. The STP TT NBR field on the NSTRIG form applies only to ASP Release 0.1B and later for 5E9(1) and later triggers. If STP TT NBR is blank, the Translation Type entered for the field TRANS TYPE on the DSAPP form is used.

Required Field.

Valid Entries: 0 - 255

Data Rules:

If APPLIC is "ICCV" or "CCS7", then TRANS TYPE must be 0.

2.5 SUB SYS NBR

Description: Enter the Subsystem Number used by the Direct Signaling Application.

Data Rule:

For 5E5 and later, the Subsystem Number must be unique for each Application type defined on the DSAPP form.

Required Field.

Valid Entries: 232 - 254

2.6 DPC 1

Description: Enter the Destination Point Code 1. This field is used to specify the first signaling point for the STP (Signaling Transfer Point).

Software Release: 5E11 and later

Valid Entries: 9 digits in the following format.

2.7 DPC 2

Description: Enter the Destination Point Code 2. This field is used to specify the second signaling point for the STP.

Software Release: 5E11 and later

Valid Entries: 9 digits in the following format.

Valid DPC1/DPC2 for Lucent Technologies Entries		
Definition	Format	Valid Entries
Network Indicator	XXX	000 - 255
Regional Number	XX	00 - 31
Cluster Identification	X	0 - 7
Member	XXX	000 - 255

Valid DPC1/DPC2 for LEC Entries		
Definition	Format	Valid Entries
Network Indicator	XXX	000 - 255
Cluster Number	XXX	000 - 255
Member	XXX	000 - 255

```

dsapp                5ESS Switch      —
(5537)              OFFICE DATA ADMINISTRATION
                   DIRECT SIGNALING APPLICATION

```

```

*1.  APPLIC      _____
(*) 2.  LATA      _____
#3.  TRANS TYPE  _____
    4.  SUB SYS NBR _____
    5.  DPC 1     _____
    6.  DPC 2     _____

```

Figure 1 SAMPLE DSAPP FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 5AL: 5538 RECORD REMOTE ACCESS SERVICE RTI DEFINITION FORM - RASRTI

1. GENERAL

The 5538 Record is available with 5E5 and later Software Releases. This form is used to define the routing used by RAS (Remote Access Service) from an RADN (Remote Access DN) to the DSU2-RAF-DTA that corresponds with a specified home switch.

For 5E8 and later, a corresponding ANNAPL form must be submitted with an APPLICATION of "RAS".

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.19.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * ANNC RTI

Description: Enter the the route index that routes the RAS customer to the DSU2-RAF-DTA.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

The ROUTE INDEX must be defined on the RTIDX form (5303 Record) with CI ROUTE TYPE set to "GENANN"; the associated TKGRP form must have SVC GRP set to "RAS".

2.3 IDPNAME

Description: Enter the IDP group name. IDP names have no restrictions on the valid characters. If the field is left blank, the Office Dialing Plan will be used.

Valid Entries: 1 - 8 characters

Data Rules:

Either this field or the DAS field must be entered.

The IDPNAME must be defined on the IDPGP form (5601-4 Record).

2.4 IDP RESTRICT

Description: Must the calling TN be in the same IDP group as the RADN IDP group assigned on this form?

Default: N

Valid Entries: Y, N

Data Rules:

This field can only be "Y" when the IDPNAME field is entered. If "Y" is entered the calling TN must be in the same IDP group as the RADN.

2.5 DAS

Description: Enter the DAS (Digit Analysis Selector) number used to screen digits.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

Either this field or the IDPNAME field must be entered. The DAS must be defined on the DAS form (5300-1 Record).

```
rasrti                5ESS Switch                _
(5538)                OFFICE DATA ADMINISTRATION
                      REMOTE ACCESS SERVICE RTI DEFINITION

*1. ANNC RTI          0001
  2. IDPNAME          RASFET1
  3. IDP RESTRICT N
  4. DAS              _
```

Figure 1 SAMPLE RASRTI FORM 5E5 - 5E14 SOFTWARE RELEASES

```
rasrti                5ESS Switch                _
(5538)                OFFICE DATA ADMINISTRATION
                      REMOTE ACCESS SERVICE RTI DEFINITION

*1. ANNC RTI          _____
  2. IDPNAME          _____
  3. IDP RESTRICT N
  4. DAS              _
```

Figure 2 SAMPLE RASRTI FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5AM: 5539 RECORD LU/(R)ISLU MEASUREMENTS FORM - MEASLU

1. GENERAL

The 5539 Record is available with 5E7 and later Software Releases. It supports the LU/ISLU Load Administration Measurements feature, which is explained in the Switch Administration and Engineering Guidelines document, 235-070-100.

NOTE: References to "ISLUs" in this section also apply to RISLUs (Remote ISLUs).

The LU/ISLU Load Administration Measurements feature will assist network administrators in monitoring call loads on the switch for the following units:

- LUs (Line Units) and ISLUs
- ISLUs (Integrated Service Line Units)

An administrator can study the traffic load on selected units by: 1) defining study groups on the MEASLU form (5539 Record), and 2) enabling measurement generation and collection through appropriate Input Messages to the switch. Usage data for operational Switch Groups and Line Group Controllers on the selected units will be reported on half hour intervals in Sections 144 and 145 of the TRFC30 report.

1.1 Defining a Study Group

LUs and ISLUs (or Remote ISLUs) are targeted for study by including them in a study group defined on an MEASLU form. Each study group definition requires a line unit type ("LU" or "ISLU"), a study group identifier, and a list of SMs/LUs or SMs/ISLUs. A maximum of 19 study groups, each containing up to 100 unique units, may be specified. A unit can be included in multiple study groups.

NOTE: Although 500 ISLUs and 500 LUs can be included in study groups, only a maximum of 250 fully equipped ISLUs and 4000 Switch Groups can be studied simultaneously (the number of fully equipped Line Units is dependent on the LU concentration level).

1.2 Recent Change View

The corresponding Recent Change View for this form is 13.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * UNIT TYPE

Description: Enter the type of units being studied. A study group may include either LUs or ISLUs but not both a combination of the three.

Required Field.

Valid UNIT TYPE Entries

Entry	Definition
LU	This is a Line Unit study group.
ISLU	This is an Integrated Services Line Unit study group.

- **NOTE:** For the AIU (Access Interface Unit) measurements, introduced in 5E11, see Division 2, Section 7K.

Data Rules:

When "LU" is entered, each pair of SM and UNIT NO fields must be defined on an EQLU form (5710 Record) as SM and LINE UNIT. When "ISLU" is entered each SM and UNIT NO must be defined either on an EQISLU form (5731 Record) as SM and ISLU NUMBER or on an EQRISLU form (5732 Record) as SM and RISLU NUMBER.

For 5E10 and later, when a UNIT TYPE of "ISLU" is defined on the MEASLU form, all SM/UNIT NO combinations listed on the MEASLU form must be defined as either SWITCHING MODULE/ISLU NUMBER on an EQISLU form or SWITCHING MODULE/RISLU NUMBER on an EQRISLU form.

2.3 * STUDY GROUP

Description: Enter a number that uniquely identifies the LU or ISLU study group. An office can have a total of 19 LU or 19 ISLU study groups that may be created. Each study group is numbered uniquely from 1 to 19 (not necessarily in numerical order).

Required Field.

Valid Entries:

5E13 and earlier: 1 - 5

5E14 and later: 1 - 19

UNITS FOR DATA COLLECTION

A study group may contain up to 100 line units (LUs or ISLUs), each identified by a pair of fields, SM and UNIT NO.

2.4 SM

Description: Enter the number of the Switching Module on which the line unit (LU or ISLU) resides.

Value Entries: 1 - 192

2.5 UNIT NO

Description: Enter the number of the line unit (LU or ISLU) to be studied.

- **NOTE:** For 5E9(2) and later, 0 - 7 is used for SMs; 0 - 42 is used for SM-2000.

Valid Entries:

5E9(1) and earlier: 0 - 7

5E9(2) and later: 0 - 42

Data Rules:

If an SM is entered, the corresponding UNIT NO must also be entered; if the UNIT NO is entered, the SM

must be entered.

Each SM/UNIT NO combination must be unique within the study group; however, any particular SM/UNIT NO can be included in more than one study group.

For a Study Group defined with a Unit Type of "LU", each pair of SM and UNIT NO fields must be defined on an EQLU form (5710 Record) as SM and LINE UNIT. When "ISLU" is entered, the SM and UNIT NO must be defined either on an EQISLU form (5731 Record) as SM and ISLU NUMBER or on an EQRISLU form (5732 Record) as SM and RISLU NUMBER.

If the SMs and UNIT NOs are defined on the EQLU form, measurements will be performed on all operational Line Unit Grids associated with the Line Units as defined on the EQLUP form (5711 Record). If the SMs and UNIT NOs are defined on the EQISLU or EQRISLU form, all the operational Line Group Controllers associated with the Integrated Service Line Units as defined on EQLGC form (5733 Record) will be measured.

SCREEN 1 OF 3

measlu
(5539)

5ESS Switch
OFFICE DATA ADMINISTRATION
LU/ (R) ISLU MEASUREMENTS

*1. UNIT TYPE LU
*2. STUDY GROUP 1

3. UNITS FOR DATA COLLECTION (DATACOLL)											
ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO
1	001	1	8	_____	—	15	_____	—	22	_____	—
2	001	2	9	_____	—	16	_____	—	23	_____	—
3	002	1	10	_____	—	17	_____	—	24	_____	—
4	_____	—	11	_____	—	18	_____	—	25	_____	—
5	_____	—	12	_____	—	19	_____	—	26	_____	—
6	_____	—	13	_____	—	20	_____	—	27	_____	—
7	_____	—	14	_____	—	21	_____	—	28	_____	—

SCREEN 2 OF 3

measlu
(5539)

5ESS Switch
OFFICE DATA ADMINISTRATION
LU/ (R) ISLU MEASUREMENTS

3. UNITS FOR DATA COLLECTION (DATACOLL)											
ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO
29	_____	—	39	_____	—	49	_____	—	59	_____	—
30	_____	—	40	_____	—	50	_____	—	60	_____	—
31	_____	—	41	_____	—	51	_____	—	61	_____	—
32	_____	—	42	_____	—	52	_____	—	62	_____	—
33	_____	—	43	_____	—	53	_____	—	63	_____	—
34	_____	—	44	_____	—	54	_____	—	64	_____	—
35	_____	—	45	_____	—	55	_____	—	65	_____	—
36	_____	—	46	_____	—	56	_____	—	66	_____	—
37	_____	—	47	_____	—	57	_____	—	67	_____	—
38	_____	—	48	_____	—	58	_____	—	68	_____	—

SCREEN 3 OF 3
measlu
(5539)

5ESS Switch —
OFFICE DATA ADMINISTRATION
LU/ (R) ISLU MEASUREMENTS

3. UNITS FOR DATA COLLECTION (DATACOLL)											
ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO	ROW	SM	UNIT NO
69	___	—	77	___	—	85	___	—	93	___	—
70	___	—	78	___	—	86	___	—	94	___	—
71	___	—	79	___	—	87	___	—	95	___	—
72	___	—	80	___	—	88	___	—	96	___	—
73	___	—	81	___	—	89	___	—	97	___	—
74	___	—	82	___	—	90	___	—	98	___	—
75	___	—	83	___	—	91	___	—	99	___	—
76	___	—	84	___	—	92	___	—	100	___	—

Figure 1 SAMPLE MEASLU FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 5AN: 5540 RECORD SELECTIVE ROUTING AND TRANSFER DATA FOR ESN (SM/DAS) - ESN

1. GENERAL

For 5E7 and later Software Releases, the 5540 Record is available with the E911 feature (see Division 2, Section 1BD).

The ESN form serves two purposes. First, it is used to define an ESN (Emergency Service Number), a set of telephone numbers for the emergency services a 911 caller may require. Second, it is used to define SM standalone data, a set of emergency numbers for a 911 call that arrives at an SM unable to communicate with the CMP (Communication Module Processor).

1.1 ESN Data

An ESN represents a municipal or county area served by a specific set of emergency services. Each 911 call that enters the switch is associated with an ESN, either by a query to the ESA (Emergency Service Adjunct) or from data on an ESCO form (5541 Record).

The ESN determines the primary PSAP (Public Service Answering Point) to which the call will be routed. It also provides an alternate PSAP(s), to be used when the primary PSAP is unavailable.

The E911 attendant at a CAMA PSAP can selectively transfer a 911 call to a specific agency in the caller's area. The ESN stores the telephone numbers for up to six selective transfer keys on the PSAP console.

Additionally, an ESN may specify that the caller's NPD (Numbering Plan Digit) and ANI (Automatic Number Identification) will be flashed at the E911 attendant's console at a CAMA PSAP. The flashing indicates to the attendant that the call may require special attention, for example, calls from a chemical plant.

1.2 SM Standalone Data

In addition to defining E911 ESNs, the ESN form is used to define standalone data for individual Switching Modules on the E911-serving switch.

ESN processing is performed on the 5ESS Switch CMP. When an SM is unable to communicate with the CMP, the ESN, with its accompanying routing and selective transfer information, is inaccessible. Standalone data establishes a set of routing and selective transfer numbers the SM will use when the CMP does not respond.

One standalone ESN form must be defined for each SM. These required forms must have only the SM number as a key; the DAS field must be blank.

If more than one set of emergency standalone numbers is required for 911 calls arriving at an SM, distinctions can be made through the DAS associated with the caller. Additional ESN forms can be defined with SM and DAS as keys. In this way, multiple 911 calling areas can be routed to different emergency numbers.

When a 911 call requires standalone routing on an SM, the operational software will look first for an ESN form with the SM and DAS. If the form does not exist, it will use the form for the SM (blank DAS).

When a 911 call is routed using SM standalone data, the caller's NPD and ANI are always flashed on the E911 attendant console at a CAMA PSAP. The flash indicates to the attendant that the call may require special attention -- in this case because it was routed with standalone data.

1.3 E911 Feature Lock

The E911 secured feature must be unlocked on the SFSYS form (5713 Record) before ODA software will accept ESN forms.

1.4 Recent Change View

The corresponding Recent Change View for this form is 9.40.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 (*) ESN

Description: The ESN (Emergency Service Number) is an optional key field that cannot be used in conjunction with the SM or DAS key fields. It represents the proper emergency services a specific address should receive. It is used to obtain routing and selective call transfer telephone numbers.

Valid Entries: 1 - 1023

Data Rules:

Either ESN or SM, but not both, must be entered on this form.

When ESN is entered, DAS must be blank.

2.3 (*) SM

Description: The SM (Switching Module) is an optional key field on this form. It cannot be used in conjunction with the ESN field; however, it can be used with the DAS field.

Valid Entries: 1 - 192

Data Rules:

Either ESN or SM, but not both, must be entered.

Either SM or ESN, but not both, must be entered.

When SM is entered, FLASH must be "N" or blank; the SM must be defined on an EQIM form (5700-1/2 Record) where EQSTATUS is operational ("O").

2.4 (*) DAS

Description: The DAS (Digital Analysis Selector) field is an optional key. It cannot be used with the ESN field but can be used with the SM.

DAS is used to expand the extra selective routing capability when an SM goes into stand-alone mode or when the CMP does not respond to an SM request for an ESN translation. Emergency calls originating on this SM can, in these cases, use the call originator's DAS and SM as keys to retrieve default routing and selective transfer telephone numbers.

Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

When DAS is entered, SM must be entered and ESN must be blank. The DAS must be defined on a DAS form (5300-1 Record).

2.5 FLASH

Description: Should the caller's NPD and ANI be flashed on the E911 attendant's console at the CAMA PSAP? Flashing indicates to the attendant that the call may require special attention.

Since 911 calls routed with SM standalone data are automatically flashed, this FLASH field applies only to ESN data.

Default: N

Valid Entries: Y, N

Data Rules:

FLASH may be "Y" only when ESN is entered.

2.6 # PRIM PSAP

Description: This field is the Primary PSAP (Public Safety Answering Point) TN, a 7- or 10-digit telephone number first used to route an E911 call.

Required Field.

Valid Entries: 7 or 10 digits

Data Rules:

The PRIM PSAP telephone number must be different than the ALT1 PSAP and ALT2 PSAP telephone numbers described below.

2.7 # ALT1 PSAP

Description: The ALT1 PSAP is the First Alternate PSAP TN, a 7- or 10-digit telephone number used to route the E911 call when routing to the PRIM PSAP telephone number fails.

Required Field.

Valid Entries: 7 or 10 digits

Data Rules:

The ALT1 PSAP telephone number must be different than the PRIM PSAP and ALT2 PSAP telephone numbers.

2.8 ALT2 PSAP

Description: The ALT2 PSAP is the Second Alternate PSAP TN, a 7- or 10-digit telephone number used to route the E911 call when routing to the PRIM PSAP and ALT1 PSAP telephone numbers fail.

Valid Entries: 7 or 10 digits

Data Rules:

The ALT2 PSAP telephone number must be different than the PRIM PSAP and ALT1 PSAP telephone numbers.

- **NOTE:** Care should be taken in choosing the PSAP TNs. If the routing for the TN chosen is in a Remote Module, this could impact the ability to complete the E911 call, if the Remote Module is isolated. Verify the routing by reviewing the 5115 HGRPS form (4.14 RC/V) to see what Module (Local or Remote) contains the routing data for the NPA NXX YY?? chosen for the PSAP TN.

CRITICAL DATA INDICATOR

The following (fields Section 2.9 - Section 2.10) support the RC Translations Protection For Highly Critical Elements feature, see Division 2, Section 1BY for more information.

2.9 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the ESN data is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.10 CRIT RMK

Description: This field enhances the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT RMK field is used to enter a remark to explain why this ESN form instance is critical.

Software Release: 5E15 and later

Valid Entries: Enter up to 32 characters

Data Rules:

When the ESN form has the CRIT RMK field entered, the SFSYS form SFID 566 ACT field must be set to "Y".

SELECTIVE TRANSFER TNS

The E911 feature includes a capability called "Selective Transfer". This option allows an E911 attendant to transfer a call by depressing a key for a specific emergency service, for example, "FIRE". The operational software on the switch will associate that key with the telephone number for the fire department in the caller's area.

Up to six Selective Transfer TNs (fields Section 2.11 - Section 2.16) can be specified.

Other translations required for the Selective Transfer option are discussed in Division 2, Section 1BD, "Enhanced 911 Emergency Service".

2.11 TN1

Description: TN1 is the first Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

2.12 TN2

Description: TN2 is the second Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

2.13 TN3

Description: TN3 is the third Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

2.14 TN4

Description: TN4 is the fourth Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

2.15 TN5

Description: TN5 is the fifth Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

2.16 TN6

Description: TN6 is the sixth Selective Transfer Telephone Number, a 7- or 10-digit telephone number used by CAMA PSAP attendants to do selective call transfers.

Valid Entries: 7 or 10 digits

```

esn                               5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5540)      SELECTIVE ROUTING AND TRANSFER DATA FOR ESN (SM/DAS)

(*) 1. ESN      _____      SELECTIVE TRANSFER TNS
(*) 2. SM       _____      9. TN1  _____
(*) 3. DAS      _____      10. TN2 _____
    4. FLASH    N                11. TN3 _____
    #5. PRIM PSAP _____      12. TN4 _____
    #6. ALT1 PSAP _____      13. TN5 _____
    7. ALT2 PSAP _____      14. TN6 _____
    8. CRIT IND  N

```

Figure 1 SAMPLE ESN FORM 5E13 - 5E14 SOFTWARE RELEASES


```

esn                                5ESS Switch
SCREEN 1 OF 2                      OFFICE DATA ADMINISTRATION
(5540)    SELECTIVE ROUTING AND TRANSFER DATA FOR ESN (SM/DAS)

```

(*) 1. ESN	_____	SELECTIVE TRANSFER TNS
(*) 2. SM	_____	8. TN1 _____
(*) 3. DAS	_____	9. TN2 _____
4. FLASH	N	10. TN3 _____
#5. PRIM PSAP	_____	11. TN4 _____
#6. ALT1 PSAP	_____	12. TN5 _____
7. ALT2 PSAP	_____	13. TN6 _____

```

esn                                5ESS Switch                                -
SCREEN 2 OF 2                      OFFICE DATA ADMINISTRATION
(5540)    SELECTIVE ROUTING AND TRANSFER DATA FOR ESN (SM/DAS)

```

CRITICAL DATA INDICATOR

14. CRIT IND N

15. CRIT RMK _____

Figure 2 SAMPLE ESN FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5AO: 5541 RECORD EMERGENCY SERVICE CENTRAL OFFICE FORM - ESCO

1. GENERAL

For 5E7 and later software releases, the 5541 Record is available with the E911 feature. When a 911 call arrives at an E911-serving office, the ESCO form is used to retrieve an ESN (Emergency Service Number), an NPD (Numbering Plan Digit), and a selective routing indicator, based on the originating calling area.

An ESCO is associated with a 911 call through the dialing plan or trunk group. When the call originates in the E911-serving office, the ESCO is determined from the DAS form (5300-1 Record). When the call arrives on a trunk, the ESCO is taken from the TKGRP form (5202 Record) unless an ESCO is not assigned; then, it is taken from the DAS form.

- **WARNING:** For E911-serving offices (E911 OPTION set to "ESA" or "NONESA" on the OFCOPT form), it is recommended that an ESCO be assigned to every DAS form used for voice calls. If a 911 call cannot be associated with an ESCO through the trunk group or dialing plan, the call will be routed using the SM standalone data defined in the ESN form (5540 Record).

See Division 2, Section 1BD, for more information on the E911 feature.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * ESCO

Description: For E911 calls, the ESCO (Emergency Service Central Office) is used to retrieve an Emergency Service Number, Numbering Plan Digit, and Selective Routing Indicator. Each ESCO is associated with 911 calls from specific offices or calling areas.

ESCO values are assigned to calling areas through originating trunk groups (on the TKGRP form) or dialing plans (on the DAS form).

Valid Entries: 1-999

2.3 # ESN

Description: An ESN represents a set of Emergency Service Numbers assigned to a specific address. The ESN assigned to the ESCO is used by the operational software when selective routing is not required (SEL RT is "N"), and when a selective routing query to the ESA (E911 Service Adjunct) fails. The ESN determines PSAP (Public Safety Answering Point) and selective call transfer telephone numbers from the ESN form.

Required Field.

Valid Entries:

For 5E15 and earlier: 1 - 1023

For 5E16 and later: 1 - 15999

Data Rules:

The ESN must be defined on an ESN form (5540 Record).

2.4 # NPD

Description: The NPD (Numbering Plan Digit) represents the NPA of the E911 call originator. The one-digit NPD and the caller's ANI (Automatic Number Identification) are displayed on the attendant's console at an E911 CAMA PSAP.

Required Field.

Valid Entries: 0 - 3

2.5 # SEL RT

Description: Should Selective Routing be performed? When SEL RT is "Y", a query will be sent to the ESA to retrieve an ESN determined by the caller's ANI. When selective routing is not required (SEL RT = "N"), the ESN on this form will be used to route the E911 call.

Required Field.

Valid Entries: Y, N

CRITICAL DATA INDICATOR

The following (fields Section 2.6 - Section 2.7) support the RC Translations Protection For Highly Critical Elements feature, see Division 2, Section 1BY for more information.

2.6 CRIT IND

Description: This field supports the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT IND field is used to indicate whether the emergency service central office data is critical.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.7 CRIT RMK

Description: This field enhances the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY. The CRIT RMK field is used to enter a remark to explain why this ESCO is critical.

Software Release: 5E15 and later

Valid Entries: Enter up to 32 characters

Data Rules:

When the ESCO form has the CRIT RMK field entered, the SFSYS form SFID 566 ACT field must be set to

"Y".

esco	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5541)	EMERGENCY SERVICE CENTRAL OFFICE	

*1. ESCO 001
#2. ESN 0043
#3. NPD 2
#4. SEL RT Y

Figure 1 SAMPLE ESCO FORM 5E12 SOFTWARE RELEASE

esco	5ESS Switch	
	OFFICE DATA ADMINISTRATION	
(5541)	EMERGENCY SERVICE CENTRAL OFFICE	

*1. ESCO ____
#2. ESN ____
#3. NPD —
#4. SEL RT —
5. CRIT IND N

Figure 2 SAMPLE ESCO FORM 5E13 THROUGH 5E14 SOFTWARE RELEASES

esco	5ESS Switch	
SCREEN 1 OF 2	OFFICE DATA ADMINISTRATION	
(5541)	EMERGENCY SERVICE CENTRAL OFFICE	

*1. ESCO ____
#2. ESN ____
#3. NPD —
#4. SEL RT —

esco	5ESS Switch	
SCREEN 2 OF 2	OFFICE DATA ADMINISTRATION	
(5541)	EMERGENCY SERVICE CENTRAL OFFICE	

CRITICAL DATA INDICATOR

5. CRIT IND N
6. CRIT RMK _____

Figure 3 SAMPLE ESCO FORM 5E15 SOFTWARE RELEASE

esco 5ESS Switch
SCREEN 1 OF 2 OFFICE DATA ADMINISTRATION
(5541) EMERGENCY SERVICE CENTRAL OFFICE

*1. ESCO ____
#2. ESN _____
#3. NPD _
#4. SEL RT _

esco 5ESS Switch _
SCREEN 2 OF 2 OFFICE DATA ADMINISTRATION
(5541) EMERGENCY SERVICE CENTRAL OFFICE

CRITICAL DATA INDICATOR
5. CRIT IND N
6. CRIT RMK _____

Figure 4 SAMPLE ESCO FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 5AP: 5542 RECORD LEASED NETWORK NODE MAPPING - LNNODEM

1. GENERAL

The 5542 Record is available with 5E7 and later Software Releases. This capability provides a new automatic Network Management control that provides the ability for the network manager to reserve up to 15 trunks in a trunk group for critical users.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.28.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *DEST CLLI

Description: This field is used to identify a destination switch for reporting node-to-node measurements by inputting the Far End Common Language Location Identifier.

Software Release: 5E3 and later

Valid Entries: 1 - 11 characters

The format for Far End Common Language Location Identifier is as follows:

Example: CHCGILMOCG0.

DEST CLLI Format		
Character Positions	Location	Example
1 - 4	Place	CHCG (Chicago)
5, 6	State	IL (Illinois)
7, 8	Building	MO (Monroe)
9 - 11	Entity	CG0 (Control Group 0)

2.3 #LN ARS IDX

Description: This field is the ARS Index used to route to the Destination switch for collection of the Leased Network node-to-node data.

Valid Entries: 1 - 1000

Data Rules:

Any single value of LN ARS IDX may not be entered on more than one LNNODEM form.

lnnodem
(5542)

5ESS Switch
OFFICE DATA ADMINISTRATION
LEASED NETWORK NODE MAPPING

*1. DEST CLLI CHCGILMOCGO
#2. LN ARS IDX 1000

Figure 1 SAMPLE LNNODEM FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 5AQ: 5543 RECORD SCREENING INDEX PARAMETER ASSIGNMENT - SCRIDXPA

1. GENERAL

The 5543 Record is available with the 5E6 and later Software Releases and is used to assign parameters to a line or trunk on a per screening index basis.

The key screening index (SCRN IDX) is assigned to specific LCC (Line Class Code) and RAX (Rate Area) combinations. When an SCRIDXPA form has been entered, the information will apply to all lines defined on the LINE form (5109 Record), MLHLN form (5111 Record), and DSLUSR form (5908 Record) whose LCC and RAX have been assigned this SCRN IDX. In some cases, the attributes may be overridden by attributes on the LINE, MLHLN or DSLUSR forms. See specific field descriptions to determine when attributes may be overridden on a per-line basis. For more information, see D2S4A.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * SCRN IDX

Description: Enter a screening index. This is a screening index associated with a line or trunk that originates a call.

Required Field.

Valid Entries: 1 - 4095.

Data Rules:

SCRN IDXs assigned on SCRIDXPA forms must be defined as SCREENING INDEX on an RAR form.

2.3 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

CPN PRESENTATION

The following fields (Section 2.4 - Section 2.5) are applicable only to the CPNP special feature in determining the presentation status of the calling party.

2.4 PCP ALW

Description: Is per-call privacy general availability allowed with this screening index? This field is applicable only to the CPNP (Calling Party Number Presentation) feature.

In some cases, this field can be used to override the status of PCP general availability as set on the LASSFA form:

1. If LASSFA has PCP set to "SUBSCR", then setting this PCP ALW to "Y" will make PCP generally available for lines assigned this screening index, provided the appropriate LINE, MLHLN or DSLUSR form also has PCP ALW set to "Y" and does not have a subscribed DISP feature.
2. If LASSFA has PCP set to "GENAVAIL", then setting this PCP ALW to "N" will prohibit PCP from being generally available for lines assigned this screening index without a subscribed DISP feature.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

Per-call Privacy is applicable to only certain classes of service. If LCC forms have a SCREENING INDEX defined on an SCRIDXPA form where PCP ALW is set to "Y", CLASS OF SERVICE on the LCC form must be set to one of the following values: ATND, INDIV, 4WINDIV, CHGCALL, ISDN, ISATND, B911, SATSTLN, CALLBK, PBX, TWOPTY, HOTMOTL, COIN, 2PTY.

CPN Presentation is a Secured Feature, and must be purchased before data can be assigned. FEATURE ID 50 on the SFSYS form must be set to "S" before PCP ALW can be set to "Y" and PRIVACY can be entered on a SCRIDXPA form. When FID 50 is not "S", this field will not be used and must be set to "N".

For 5E11 and later, if PCP ALW is "Y", the SCRIN IDX field on each SCRIDXPA form must have at least one matching SCREENING INDEX value on the LCC form.

2.5 PRIVACY

Description: Is all-call privacy active? When set to "Y", all calls will be marked with a presentation status of private. When set to "N", all calls will be marked with a presentation status of public. When left blank, presentation status cannot be determined from this attribute on this form (see the information below in this description for interactions with the OFCOPT form).

The PRIVACY field also appears on the LINE, MLHLN and DSLUSR forms, and when entered on one of those forms, it will override the value on this SCRIDXPA form for that particular line. When PRIVACY has not been entered on the LINE, MLHLN or DSLUSR forms, the value of PRIVACY on this form will be used.

When PRIVACY has been left blank on both this form and the LINE, MLHLN and DSLUSR forms, the value of DN PRIVACY on the OFCOPT form (5509 Record) will be used to determine the presentation status.

Default: N

Valid Entries: Y, N

Data Rules:

CPN Presentation is a Secured Feature, and must be purchased before data can be assigned. FEATURE ID 50 on the SFSYS form must be set to "S" before PCP ALW can be set to "Y" and PRIVACY can be set on an SCRIDXPA form. When FID 50 is not "S", this field will not be used and cannot be set.

2.6 ANI II DIGITS

Description: This ANI pair will be associated with the screen index for the Flexible ANI Enhancement secured feature. For more information about the feature, see Division 2, Section 4A142.

Software Release: 5E9(1) and later

Valid Entries: 00 - 99

Data Rules:

A value can be entered in this field only if the Flexible ANI Enhancement secured feature has been purchased, and SFID 142 is set to "Y" on the SFSYS form (5713-1 Record).

ASP

The following fields (Section 2.7 - Section 2.9) support the ASP (Advanced Services Platform) Inhibiting of Originating Busy/No Answer Office Triggers secured feature. For more information concerning this feature, see Division 2, Section 4A210.

2.7 OFC OBL INH

Description: The OFC OBL INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by screen index. It indicates whether the ASP Office Originating Busy Line Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating Busy Line Trigger is inhibited.

For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2, S4A210.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the inhibiting feature has not been purchased, OFC OBL INH must be "N".

2.8 OFC ONA INH

Description: The OFC ONA INH field is used to enhance the functionality provided by the ASP Originating Busy/No Answer Triggers with Extended Ringing feature. This field allows inhibiting by screen index. It indicates whether the ASP Office Originating No Answer Trigger should be inhibited. If this field is set to YES, it means that the ASP Office Originating No Answer Trigger is inhibited.

For more information on the ASP Inhibiting of Originating Busy/No Answer Office Triggers feature, see Division 2, S4A210.

Software Release: 5E11 and later.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

When the inhibiting feature has not been purchased, OFC ONA INH must be "N".

2.9 OS TRIG INH

Description: This field indicates if the AIN Operator Services trigger is inhibited or not. This field was added to support the AIN Operator Services Trigger feature. See Division 2, Section 4A584.

Software Release: 5E16 and later.

Required Field.

Default: N

Valid Entries: Y, N

2.10 RESTRICT LINE

Description: This field indicates if the origination should be processed as a restricted/special line.

Software Release: 5E16 and later

Valid Entries:

Entry	Definition
blank	Use value from subsequent screening index, or previous if subsequent also has blank value in this field.
Y	Calls are processed as originating from restricted/special line. Also subsequent screening induces will use this value.
N	Calls are processed as originating from non restricted/special line. Also subsequent screening induces will use this value.

2.11 EXC RAR

Description: This field indicates whether or not Exception tuples exist. This is a display only field.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Y, N

```

scridxpa                5ESS Switch                _
(5543)                  OFFICE DATA ADMINISTRATION
                        SCREENING INDEX PARAMETER ASSIGNMENT

```

*1. SCRIN IDX _____

CPN PRESENTATION

2. PCP ALW N

3. PRIVACY _

4. ANI II DIGITS ____

ASP

5. OFC OBL INH N

6. OFC ONA INH N

Figure 1 SAMPLE SCRDXPA FORM 5E11 THROUGH 5E15 SOFTWARE RELEASES

```

scridxpa                                5ESS Switch
                                         OFFICE DATA ADMINISTRATION
(5543)                                SCREENING INDEX PARAMETER ASSIGNMENT

*1.  SCRIN IDX _____                8.  RESTRICT LINE  _

CPN PRESENTATION
  2.  PCP ALW N
  3.  PRIVACY  _

  4.  ANI II DIGITS  __

      ASP
  5.  OFC OBL INH N
  6.  OFC ONA INH N
  7.  OS TRIG INH N

```

Figure 2 SAMPLE SCRIDXPA FORM 5E16(1) SOFTWARE RELEASE

```

scridxpa                                5ESS Switch
                                         OFFICE DATA ADMINISTRATION
(5543)                                SCREENING INDEX PARAMETER ASSIGNMENT

    *1.  SCRIN IDX  _____          8.  OS TRIG INH N
(*) 2.  RAX         _____

CPN PRESENTATION                      9.  RESTRICT LINE  _
                                         EXC RAR         _

    3.  PCP ALW N
    4.  PRIVACY  _

    5.  ANI II DIGITS  __

        ASP

    6.  OFC OBL INH N
    7.  OFC ONA INH N

```

Figure 3 SAMPLE SCRDXPA FORM 5E16(2) SOFTWARE RELEASES

SEC. 5AR: 5713-1 RECORD SECURED FEATURE SYSTEM ASSIGNMENT FORM - SFSYS

1. GENERAL

This form is used to enable secured features. Secured features are the optional service features that can be purchased in addition to the features included in the current Software Release. The secured features need to be enabled by a Lucent Technologies SEE (System Equipment Engineer). Once the SEE determines through the TEO (Telephone Equipment Order) that secured features have been purchased by the customer, the SEE enables those features either through 5ODA or through Recent Change View 8.22. For 5E13 and later, the SFID (Secured Feature ID) number fields increased from 500 to 996 (see Division 2, Section 4A0).

For a new 5ESS Switch office, retrofit or large terminal growth, the SEE populates the SFSYS form, which enables access to the secured features that the office has purchased. Figure 1 gives the SFID number that corresponds to a specific secured feature.

- **NOTE:** For information on a specific secured feature, see Division 2, Section 4AXX, where XX is the SFID. For example, for information on the secured feature having SFID 34, see Division 2, Section 4A34.

1.1 On-line Informational Software Updates

Informational Software Updates, which are available on SCANS (Software Change Administration and Notification System), provide information on features which are released during a Software Update. In addition to being transmitted to users via SCANS, these Informational Software Updates can also be accessed in the 5ESS Switch electronic media documentation. The Informational Software Updates are located on the menu for 5ESS Switch documentation on-line or on CD-ROM.

1.2 Recent Change View

The corresponding Recent Change View for SFSYS is 8.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the Office Name on each record.

2.2 * MODULE

Description: Enter "OFC", the only entry allowed for this field. This form applies to each SM in the office.

Software Release: 5E5 and later

Required Field.

Valid Entries: OFC

Data Rules:

When MODULE is "OFC", RESOURCE NAME and FEATURE PASSWD must not be entered.

When MODULE is "FEA", RESOURCE NAME and RESOURCE PASSWD must be entered.

When MODULE is "FEA", entries are not allowed in the SECURED FEATURE ID LIST.

2.3 * RESOURCE NAME

Description: This field provides the abbreviated name of the resource for a particular secured feature.

Software Release: 5E18.1 and later

Valid Entries:

Valid RESOURCE NAME Entries	
Entry	Definition
IPSHO	Software Release: 5E20(1) and later. IP Soft Handoff
MPHA2	Software Release: 5E19(1) and earlier. Multiple Protocol Handler for ATM (Asynchronous Transfer Mode) version 2
NPH	Software Release: 5E20(1) and later. Network Protocol Handler
PFS	Software Release: 5E20(1) and later. Packet Frame Selector
PHVDATA	Software Release: 5E19(1) and earlier. Protocol Handler for Voice Data
PHVVOICE	Software Release: 5E19(1) and earlier. Protocol Handler for Voice
CVPV	Software Release: 5E20(1) and later. Circuit Vocoder and Packet Vocoder

2.4 FEATURE NAME

Description: This field specifies the SFID (Secured Feature ID) name.

NOTE: As of 5E20(1) this field is a display only field.

Software Release: 5E18.1 and later

Valid Entries: up to 25 characters

SPECIAL FEATURE FIELDS

These fields support the Securing Voice and Data Channel Counts feature. For more information, see Division 2, Section 5Q.

2.5 RESOURCE PASSWD

Description: This field is used to specify the resource password required to activate or deactivate a feature. A special password must be obtained from the Lucent Technologies Regional Engineer in order to activate resources.

Software Release: 5E18.1 and later

Valid Entries: 29 characters

2.6 NUM PURCHASED

Description: This field is used to display the total number of units purchased for this resource. This is a display only field that was moved from a different location of this file.

Software Release: 5E20(1) and later

Valid Entries: 0 - 65535

2.7 NUM PROVISIONED

Description: This field represents the current number provisioned on the switch as it relates to the RESOURCE NAME. This is a display only field.

Software Release: 5E18.1 and later

Valid Entries: up to 7 characters

RESOURCE HISTORY INFORMATION

This list (Section 2.8 - Section 2.11) defines up to 16 positional entries of resource history information.

2.8 DATE

Description: This field specifies the date information of the resource history. This is a display only field.

Software Release: 5E20(1) and later

Valid Entries: Blank or value in the format of YYYY-MM-DD

2.9 TIME

Description: This field was used to specify the time information of the resource history. This is a display only field.

Software Release: 5E20(1) and later

Valid Entries: Blank, or a value in the format of HH:MM:SS

2.10 NUM PURCHASED

Description: This field is used to display the actual number of units purchased by a particular license. This is a display only field.

Software Release: 5E20(1) and later

Valid Entries: 65535 - 65535

2.11 MAX LIMIT

Description: This field is used to display the total number of units purchased of this resource after the application of this particular license. This is a display only field.

Software Release: 5E20(1) and later

Valid Entries: 0 - 65535

SECURED FEATURE ID LIST (SFLIST)

This list (Section 2.12 - Section 2.13) defines entries used to activate or deactivate a secured feature.

2.12 SFID

Description: The secured feature identification number to be activated. This field is not changeable by the user. It is simply a list of available SFIDs.

2.13 ACT

Description: This field is used to enable or disable access to a secured feature.

To enable a feature, select the SFID number corresponding to the secured feature and enter "Y" in the ACT field. To disable a feature, select the SFID number corresponding to the secured feature and enter "N" or a "tic" (a single quote) to blank the ACT field.

Figure 1 shows the corresponding SFID number for each secured feature.

Valid Entries: Y, N, or blank

FEATURE NAME	SFID	SOFTWARE RELEASE	SOFTWARE UPDATE / FEATURE RELEASE	INFO SOFTWARE UPDATE / FEATURE RELEASE
MDNL (Multiple Directory Numbers per Line)	1	5E4(2) 5E5 5E6	SU 880057 GA GA	SU 880096 GA GA
OSPS 0-/0+ Rate Differential	2	5E4(2) 5E5 5E6	SU 880104 GA GA	SU 890035 GA GA
VPATH 7/10 Digit Outpulsing	3	5E4(2) 5E5 5E6	SU 890044 GA GA	SU 890071 GA GA
OSPS DA And C-ACD Full Monitoring Path (Open Mike)	4	5E4(2) 5E5 5E6	SU 890070 GA GA	SU 890063 GA GA
ANI (Automatic Number Identification) Over Private Facilities	5	5E4(2) 5E5 5E6 5E7	SU 900067 SU 900081 SU 900054 GA	SU 900057 SU 900071 SU 900036 GA
CST (Circuit Switched Trunk)	6	5E4(2) 5E5 5E6	SU 890127 SU 890060 GA	SU 890119 SU 890045 GA
SIC (Service Indicator Code) Expansion	7	5E4(2) 5E5 5E6 5E7	SU 910004 SU 910006 SU 910004 GA	SU 900056 SU 900106 SU 900044 GA
108 Test Line	8	5E6 5E7 5E8	SU 920060 SU 920096 GA	SU 920056 SU 920080 GA
CICP (Carrier Identification Code Parameter)	9	5E8 5E9(1) 5E9(2)	SU 940015 SU 940026 GA	SU 940016 SU 940062 GA
LDP Enhanced DAL (Data Access Link)	10	5E15	GA	GA
EAOSS (Exchange Access Operator Services System) Signaling for Operator Service Calls	11	5E8 5E9(1) 5E9(2)	SU 930045 SU 940006 GA	SU 930079 SU 940013 GA
DC-ACVT (Direct Connect) Capability through the ISDN ACVT (Attendant Control of Voice Terminals) feature for analog lines)	12	5E8 5E9(1)	SU 930033 GA	SU 930050 GA
SCD (Selective Carrier Denial)	13	5E5 5E6	GA GA	GA GA
Executive Ringer Cutoff	14	5E5 5E6	SU 890021 GA	SU 890014 GA
OSPS Custom Toll and Assistance Branding	15	5E5 5E6	GA GA	GA GA

OSPS/ACD C-ACD Direct Agent Access	16	5E5 5E6	SU 900074 GA	SU 900066 GA
OSPS 10XXX Unblocking Fraud Prevention	17	5E5 5E6	SU 900065 GA	SU 900049 GA
TGSR for ISUP Trunks	18	5E5 5E6 5E7	SU 900110 SU 900048 GA	SU 900086 SU 900010 GA
Pre-Compliant FGB CIC Expansion	19	5E6 5E7 5E8	SU 900048 GA GA	SU 900035 GA GA
OSPS C-ACD Alternated External Dialing	20	5E5 5E6 5E7	SU 900085 SU 900031 GA	SU 900077 SU 900027 GA
OSO AMA Recording For ANI Delivery	21	5E5 5E6 5E7	SU 900129 SU 900066 GA	SU 900098 SU 900046 GA
OSPS 891 Format Credit Card Service	22	5E5 5E6 5E7	SU 900130 SU 910072 NA	SU 900128 - NA
OSPS Virtual Card	23	5E8 5E9(1)	SU 930035 GA	SU 930053 GA
OSPS Purchase Limits Balance Quotation - Phase 1	24	5E8 5E9(1)	SU 930039 GA	SU 930063 GA
TRS (OSPS Telephone Relay Service Call Handling)	25	5E8 5E9(1)	SU 930033 GA	SU 930048 GA
OSPS BNS (Billed Number Screening) Fraud Control	26	5E8 5E9(1)	SU 930027 GA	SU 930045 GA
Forced Calling Number Privacy on CCS Trunks	27	5E6 5E7 5E8 5E9(1)	SU 930003 SU 930005 SU 930007 GA	SU 930003 SU 930003 SU 930009 GA
800 Post Dial Delay MF Signaling Transmission Reduction (for End Office)	28	5E6 5E7 5E8 5E9(1)	SU 930002 SU 930004 SU 920019 GA	SU 920093 SU 920136 SU 920138 SU 920025 SU 920043 GA
800 Post Dial Delay MF Signaling Response Reduction (for Access Tandem Office)	29	5E6 5E7 5E8 5E9(1)	SU 930002 SU 930004 SU 920019 GA	SU 920093 SU 920136 SU 920026 SU 920044 GA
MCLD (Modified Called Line Disconnect) Enhancement	30	5E8	GA	GA
OSPS Interworking with SSP 800	31	5E6 5E7 5E8	SU 920060 SU 920096 GA	SU 920055 SU 920079 GA
AM Based Protocol Monitoring Translator	32	5E6 5E7 5E8	SU 920035 SU 920064 GA	SU 920034 SU 920046 GA
AR/AC with Privacy Number ID for AMA (Return Call AMA)	33	5E6 5E7 5E8	SU 920004 SU 920005 GA	SU 910159 SU 910023 GA
Proportionate Bidding	34	5E6 5E7 5E8	SU 920027 SU 920104 GA	SU 920006 SU 920066 GA
OSPS Position Release of NPA-131 Calls	35	5E6 5E7	SU 910095 GA	SU 910093 GA

LASS Validation and Screening for NPA Split	36	5E6 5E7 5E8	SU 910133 SU 910033 GA	SU 910114 SU 910019 GA
Multi-Distinctive Ringing II / Enhanced MDNL (Depends on SFID 1, see Division 2, Section 4A1)	37	5E6	GA	GA
Flexible ANI	38	5E6	GA	GA
Enhanced INWATS-Type AMA Records	39	5E6	GA	GA
Calling Name Delivery Phase 0	40	5E6 5E7 5E8	SU 910142 SU 920005 GA	SU 910112 SU 910020 -
Calling Name Delivery Phase 2	40	5E7 5E8	SU 920105 GA	SU 920087 -
Calling Name Delivery Phase 2.1	40	5E8 5E9(1)	SU 930010 GA	SU 920029 GA
OSPS C-ACD Call Interaction Interface of Inbound Call Management (Call Vectoring Command PROMPT)	41	5E6	GA	GA
OSPS C-ACD Conference And Transfer For Outgoing TM/TS Calls	42	5E6 5E7	SU 910007 GA	SU 910005 GA
Limited 2-Level COT/AC (Customer Originating Trace/Automatic Callback)	43	5E6 not 5E7	SU 910014 NA	SU 910011 NA
ITSE (Incoming Trunk Service Evaluation)	44	5E6 5E7	SU 900054 GA	SU 900035 GA
OSPS Automated Operator	45	5E6 5E7	SU 910022 GA	NONE GA
OSPS ANI II Digit Treatment	46	5E6 5E7	SU 900073 GA	SU 900061 GA
UCR (Unidentified Call Rejection) - Base - Base - Dial Code Activation of UCR - UCR Announcement for Dial Code - Base	47	5E5 5E6* 5E6 5E6 5E7	SU 910089 SU 910052 SU 910063 SU 920004 SU 920035	SU 910084 SU 910042 SU 910162 SU 910156 SU 910018
POLIN (Privacy Option For Last Incoming Number)	48	5E6 5E7	SU 910004 GA	SU 910003 GA
Remove ISDN COT Agency	49	5E6 5E7	SU 910052 GA	SU 910043 GA
CPNP (Calling Party Number Presentation)	50	5E6 5E7	SU 910100 GA	SU 910083 GA
ASP Feature Release 0.1A (ASP Enhancement) (Depends on SFID 58, see Division 2, Section 4A58)	51	5E6 5E7 5E8	SU 920027 SU 920052 GA	SU 910155 SU 910017 GA
OSPS ANI Forwarding	52	5E6 5E7	SU 900073 GA	SU 900060 GA
Operator Line Verification Interaction With Call Forwarding Busy Line	53	5E6 5E7	SU 910052 GA	SU 910041 GA
OSPS Emergency Interrupt AMA	54	5E6 5E7	SU 910032 GA	SU 910021 GA
OSPS Feature Group B Prepay Coin Access Charge Recording	55	5E6 5E7	SU 910032 GA	SU 910023 GA
OSPS Missing LIDB Data Call Handling Modifications	56	5E6 5E7	SU 910050 GA	SU 910035 GA
OSPS Unblock 900 For Rate Quotes	57	5E6 5E7	SU 910050 GA	SU 910034 GA
ASP Base Feature Lock	58	5E6 5E7	SU 910077 GA	SU 910060 GA
IDDD Routing via SFG	59	5E6 5E7	SU 910077 GA	SU 910062 GA
Metro Hub	60	5E6	SU 910092	SU 910084

		5E7	GA	GA
E911 (Enhanced 911)	61	5E7	GA	GA
CFDA (Call Forward Don't Answer) after Call Waiting	62	5E7	GA	GA
CLSS (Calling Line Side Supervision)	63	5E7	GA	GA
Music On Hold	64	5E7	SU 920085	SU 920084
		5E8	GA	GA
OSPS Automated Position Call Type Determination	65	5E7	GA	GA
OSPS Automated Sequence Dialing Following Operator Release	66	5E7	GA	GA
OSPS OAP 15 Minute Traffic Report MECH Usage Data	67	5E7	GA	GA
OSPS OAP 24 Hour Traffic Report MECH Usage Data	68	5E7	GA	GA
OSPS Specialized Handling for 700 Calls	69	5E7	GA	SU 920032
CLAMA (Coin Line Automatic Message Counting)	70	5E7	GA	SU 920040
Transfer From ARU to ACD	71	5E7	SU 920035	SU 910030
		5E8	GA	GA
5E8 Base Lock for ISTF	72	5E7	GA	GA
		5E8	GA	GA
OSPS Real Time Rating Improvements for DACC	73	5E7	GA	GA
PBX Trunk Access to OSPS	74	5E7	GA	SU 920011
OSPS OLS Before DACC Prompt	75	5E7	GA	GA
OSPS OLS - Alternate Routing	76	5E7	SU 920019	SU 920011
		5E8	GA	GA
OSPS Block 900 Calls for 10+4 Cards	77	5E7	SU 920019	SU 920011
		5E8	GA	GA
OSPS Completion of Inter-LATA calls Accessing Directory Assistance	78	5E7	SU 920057	SU 920050
		5E8	GA	GA
OSPS ACCS for 0+800 Calls From Wireless Service Providers	79	5E7	SU 920081	SU 920074
		5E8	GA	GA
Intra-Switch Analog Line Transfer	80	5E7	SU 920131	SU 920015
		5E8	SU 930006	SU 920102
		5E9(1)	GA	GA
OSPS LIDB - Change Handling of Indeterminate Reply Codes	81	5E7	SU 920096	SU 920092
		5E8	GA	GA
OSPS ACQS Rate Distinction Based on Quote Delivery	82	5E8	SU 930027	SU 930039
		5E9(1)	GA	GA
OSPS Feature Group D Incoming Signaling for Special Applications	83	5E8	SU 930027	SU 930043
		5E9(1)	GA	GA
OSPS Alternate Access to Language Specific Operator Services	84	5E8	SU 930010	SU 930013
		5E9(1)	GA	GA
OSPS FTS/NRA	85	5E8	SU 930012	SU 930025
		5E9(1)	GA	GA
OSPS EABS (Exchange Alternate Billing Services)	86	5E8	SU 930008	SU 930010
Alternate Routing		5E9(1)	GA	GA
OSPS Volt Delta DA Interface	87	5E8	SU 930008	SU 930006
		5E9(1)	NA	NA
Circuit Switched Trunk Enhancement (Depends on SFID 6, see Division 2, Section 4A6)	88	5E8	SU 930010	SU 930020
		5E9(1)	GA	GA
OSPS Specialized Handling for 700 Calls Release 2.1	89	5E8	SU 930010	SU 930012
		5E9(1)	GA	GA
OSPS Subaccount Billing - ANI Screening	90	5E7	SU 920096	SU 920088
		5E8	GA	GA
Call Waiting with Distinctive Tones/Ringing for Long Distance Calls	91	5E8	GA	GA
Bridging Onto Conference Call, Multiple Bridgers, RHR of Cong. Call	92	5E8	GA	GA
Advanced Service Interface Proxy	93	5E8	SU 930015	SU 930001
		5E9(1)	GA	GA
OSPS MECH Zip Tone	94	5E8	GA	GA
OSPS Independent Company, Announcement Branding	95	5E8	GA	GA
OSPS OLS - Customized Market Announcements	96	5E8	GA	GA

OSPS Original Line Number Screening Before DACC - Phase 2	97	5E8	GA	GA
OSPS Purchase Limits - Alert Tone Prior to Disconnect	98	5E8	GA	GA
OSPS Originating Station Class for DA Call Completion	99	5E7	SU 920083	-
		5E8	GA	GA
OSPS VMS Service Code Measurements	100	5E8	SU 920015	SU 920031
		5E9(1)	GA	GA
OSPS International Billed Number Screening	101	5E8	SU 920015	SU 920028
		5E9(1)	GA	GA
OSPS 0- Transfer Over Feature Group D Trunks	102	5E8	SU 920020	SU 920040
		5E9(1)	GA	GA
AP (Applications Processor) Link Diversification	103	5E8	GA	GA
AMA - Recording of Calls from Wireless Service Providers	104	5E8	SU 930006	SU 930002
		5E9(1)	GA	GA
CENTREX PRI (Primary Rate Interface) Enhancements (Depends on SFID 60, see Division 2, Section 4A60)	105	5E8	SU 930037	SU 930047
		5E9(1)	GA	GA
Usage-Sensitive Three-Way Calling	106	5E8	SU 940001	SU 930058
		5E9(1)	GA	GA
OSPS AIBNS (Automated Inward Billed Number Screening)	107	5E8	SU 930008	SU 930004
		5E9(1)	GA	GA
Dual ESA for E911	108	5E8	SU 920020	SU 920017
		5E9(1)	GA	GA
ALIC-5 (Analog Line to Integrated Carrier on the 5ESS Switch)	109	5E8	SU 930010	SU 920049
		5E9(1)	GA	GA
OSPS CICADA (Completion of Calls Accessing Inter-LATA Directory Assistance II Block/Unblock 809 (Depends on SFID 78, see Division 2, Section 4A78))	110	5E8	SU 930008	SU 930007
		5E9(1)	GA	GA
AC (Automatic Callback) Blocked to Private Number	111	5E8	SU 930012	SU 930015
		5E9(1)	GA	GA
OSPS AMA Identification of 800 Access Calls	112	5E8	SU 930019	SU 930030
		5E9(1)	GA	GA
OSPS Intraflow to Interflow Call Handling	113	5E8	SU 930024	SU 930040
		5E9(1)	GA	GA
ISDN PSAP (Public Safety Answering Point) (Depends on SFID 61, see Division 2, Section 4A61)	114	5E8	SU 940012	SU 940008
		5E9(1)	SU 940011	SU 940022
		5E9(2)	GA	GA
OSPS CICADA Mute Back to Connect Operator (Depends on SFID 78, see Division 2, Section 4A78)	115	5E8	SU 930015	SU 930022
		5E9(1)	GA	GA
CPN (Calling Party Number) Delivery on E911 Calls (Depends on SFID 61, see Division 2, Section 4A61)	116	5E8	SU 940012	SU 940008
		5E9(1)	SU 940011	SU 940020
		5E9(2)	GA	GA
OSPS Enhancements to DA and DACC for Wireless Users	117	5E8	SU 930045	SU 930077
		5E9(1)	SU 940006	SU 940005
		5E9(2)	GA	GA
15A Announcement	118	5E9(1)	SU 940024	SU 940068
		5E9(2)	GA	GA
Alternate Language LASS Announcement	119	5E8	SU 940007	SU 940001
		5E9(1)	SU 940023	SU 940010
		5E9(2)	GA	GA
Originating AR/AC Destination Point Code	120	5E14	SU	SU
ACD (Automatic Call Distributor/BRCS DN Provisioning)	121	5E9(1)	GA	GA
ACD (Automatic Call Distributor/BRCS Position Provisioning (Depends on SFID 121, see Division 2, Section 4A121))	122	5E9(1)	GA	GA
ACD (Automatic Call Distributor/BRCS Agent Login (Depends on SFID 122, see Division 2, Section 4A122))	123	5E9(1)	GA	GA
Call Park	124	5E9(1)	GA	GA

Fractional DS1 Switching - N x DS0	125	5E9(1)	GA	GA
ASP (Advanced Service Platform) Release 0.1B (Depends on SFID 51, see Division 2, Section 4A51)	126	5E9(1)	GA	GA
AMATRC (AMA Trace) Enhancements	127	5E9(1)	GA	GA
AMA Capabilities for Type 2A Cellular Interconnections	128	5E9(1)	GA	GA
Software Update Process Automation	129	5E9(1)	GA	GA
Digital Cellular Switch (Digital AMPS TDMA)	130	5E9(1)	SU 930005	-
		5E9(2)	GA	GA
ELINK (E-Link Access and Alternate A-Link Set Routing)	131	5E9(1)	GA	GA
FPCR (Full Point Code Routing)	132	5E9(1)	GA	GA
CIDCW (Calling Identity Delivery on Call Waiting) (Depends on SFID 140, see Division 2, Section 4A140)	133	5E9(1)	SU 940017	SU 940024
		5E9(2)	GA	GA
ATTS (Automatic Trunk Test Scheduler)	134	5E9(1)	GA	GA
ASP Distinctive Ringing (Depends on SFID 126, see Division 2, Section 4A126)	135	5E9(1)	SU 940020	SU 940069
		5E9(2)	GA	GA
ASP Default Routing for Termination Attempt Triggers (Depends on SFID 126, see Division 2, Section 4A126)	136	5E9(1)	SU 940020	SU 940045
		5E9(2)	GA	GA
ASP BRCS OHD Interworking (Depends on SFID 126, see Division 2, Section 4A126)	137	5E9(1)	SU 940016	SU 940017
		5E9(2)	GA	GA
ASP OHD LASS Interworking (Depends on SFID 126, see Division 2, Section 4A126)	137	5E9(1)	SU 940033	SU 940077
		5E9(2)	GA	GA
Vector Prompt Enhancement (Depends on SFID 41 and 123, see Division 2, Section 4A41 and Division 2, Section 4A123)	138	5E9(1)	SU 940037	SU 940089
		5E9(2)	SU 950003	SU 950005
		5E10	GA	GA
ASP Interworking with NISDN and ISATs (Depends on SFID 126, see Division 2, Section 4A126)	139	5E9(1)	SU 940016	SU 940023
		5E9(2)	GA	GA
Switch-to-CPE Analog Off-Hook FSK Data Interface	140	5E9(1)	SU 940017	SU 940024
		5E9(2)	GA	GA
Dual ESA (Emergency Services Adjunct) for E911 Enhancements (Depends on SFID 108, see Division 2, Section 4A108)	141	5E9(1)	SU 940023	SU 940051
		5E9(2)	GA	GA
Flexible ANI Enhancements (Depends on SFID 38, see Division 2, Section 4A38)	142	5E9(1)	SU 940024	SU 940044
		5E9(2)	GA	GA
Pinnacle ACD E911 Service (Depends on SFID 114 and 123, see Division 2, Section 4A114 and Division 2, Section 4A123)	143	5E9(1)	SU 940034	SU 940067
		5E9(2)	GA	GA
Dual Circuit FX (Foreign Exchange) Plugs	144	5E9(1)	SU 950001	SU 940037
		5E9(2)	GA	GA
Call Waiting Deluxe - Phase I (Depends on SFID 140, see Division 2, Section 4A140)	145	5E9(1)	SU 950007	SU 950011
		5E9(2)	SU 950014	SU 950041
		5E10	GA	GA
A-I-Net LASS-SCN/Intelligent Peripheral Interworking (Depends on SFID 139, see Division 2, Section 4A139)	146	5E9(1)	SU 940037	-
		5E9(2)	SU 950003	SU 950010
		5E10	GA	GA
ASP Busy/No Answer Subsequent Event Detection (Depends on SFID 126, see Division 2, Section 4A126)	147	5E9(1)	SU 950010	SU 950013
		5E9(2)	SU 950016	SU 950035
		5E10	GA	GA
ASP Interworking with SMDR (Station Message Detail Recording)	148	5E9(1)	SU 940017	SU 940052
		5E9(2)	GA	GA

(Depends on SFID 58, see Division 2, Section 4A58)				
ICLATA (Inter-LATA Carrier's Intra-LATA) Capability	149	5E9(1) 5E9(2) 5E10	SU 940037 SU 950008 GA	SU 940103 SU 950029 GA
Additional ASP OHD Interactions with Account Code and CPN/BN (Depends on SFID 126, see Division 2, Section 4A126)	150	5E9(1) 5E9(2)	SU 940033 GA	SU 940084 GA
Protocol Monitoring Translator for National ISDN (Depends on SFID 32, see Division 2, Section 4A32)	151	5E9(1) 5E9(2) 5E10	SU 950019 SU 960001 GA	SU 950043 SU 950080 GA
ASP 3/6/10 Digit Trigger Screening (Depends on SFID 58, see Division 2, Section 4A58)	152	5E9(1) 5E9(2) 5E10	SU 940035 SU 940006 GA	SU 940094 SU 940005 GA
ASP Default Routing for 3/6/10 Digit Triggers (Depends on SFID 126, see Division 2, Section 4A126)	153	5E9(1) 5E9(2) 5E10	SU 950009 SU 950020 GA	SU 950016 - GA
Toll Connecting Routing and Billing Enhancement	154	5E9(1) 5E9(2) 5E10	SU 950004 SU 950005 GA	SU 950006 SU 950023 GA
Call Forwarding Over Private Facilities/Don't Answer	155	5E9(1) 5E9(2) 5E10	SU 950016 SU 950019 GA	SU 950031 SU 950060 GA
Spontaneous Usage Sensitive 3-way Calling	156	5E9(1) 5E9(2) 5E10	SU 95A015 SU 960001 GA	SU 950029 SU 950065 GA
Toll-Free Treatment for NPA 888 Phase 1	158	5E9(1) 5E9(2) 5E10	SU 950018 SU 950020 GA	SU 950035 SU 950064 GA
ASP Trunk Trigger for Toll (Depends on SFID 126, see Division 2, Section 4A126)	159	5E9(1) 5E9(2) 5E10	SU 950009 SU 950010 GA	SU 950019 SU 950044 GA
Type 2A/2B CMC (Cellular Mobile Carrier) via CCS (Common Channel Signaling) (Depends on SFID 128, see Division 2, Section 4A128)	160	5E9(1) 5E9(2) 5E10	SU 950018 SU 960003 SU 960001	SU 950039 SU 950075 SU 950016
Redirecting Number Parameter Delivery on PRI	161	5E9(1) 5E9(2) 5E10 5E11	SU 950018 SU 960001 SU 96A004 GA	SU 950041 SU 950077 SU 960012 GA
ASP Multiple Rate Center Support (Depends on SFID 126, see Division 2, Section 4A126)	162	5E9(1) 5E9(2) 5E10	SU 95A017 SU 950022 GA	SU 950036 SU 950066 GA
ISUP Message Loop Detection	163	5E11	GA	GA
TRFC30 30 to 60 Minute Collection	164	5E9(1) 5E9(2) 5E10 5E11	SU 950018 SU 960001 SU 960006 GA	SU 950040 SU 950076 SU 960017 GA
Toll Digital Exchange Basic Call Processing for Toll 5ESS-2000 Switch	165	5E10 5E11	SU 96A004 GA	SU 960008 GA
AMA Recording For AIN Busy And Don't Answer Calls (Depends on SFID 126, see Division 2, Section 4A126)	166	5E10 5E11	SU 960002 GA	SU 960004 GA
AMA Capabilities for Type 1 Cellular Access	167	5E10 5E11	SU 960009 GA	SU 960007 GA
Enhanced Poke Confirmation Feature	168	5E10	SU 96A010	SU 960020

		5E11	GA	GA
Increase Collection Unit for ROP - Section 144	169	5E11	GA	GA
SSNCI (Subsystem Number Capacity Increase)	170	5E10	SU 96A008	SU 960021
(Depends on SFID 126, see Division 2, Section 4A126)		5E11	GA	GA
TCAP Improvements for a Switch Spanning Multiple LATAs	171	5E11	GA	GA
Increase Number of Trunk Groups to 4000	172	5E11	GA	GA
AIN Toll Free Service Phase 2	173	5E11	GA	GA
(Depends on SFID 236, see Division 2, Section 4A236)				
LRN (Local Number Portability)	174	5E11	SU 970020	-
(Depends on SFID 126, see Division 2, Section 4A126)				
Expanded SLS (Signaling Link Selection)	175	5E11	GA	GA
Improved SLT (Signaling Link Test)	176	5E11	GA	GA
MTP (Message Transfer Part) Node Restart	177	5E11	GA	GA
Pre-Query Screening for OHD Triggers	178	5E10	SU 960013	SU 960033
(Depends on SFID 58, see Division 2, Section 4A58)		5E11	GA	GA
Enhanced Professional Office	179	5E11	SU 970005	SU 970011
NP - Basic LRN AMA	180	5E11	SU 970005	-
		5E12	GA	GA
Centrex Network	181	5E9(2)	GA	GA
Centrex Network with ISVM	182	5E9(2)	GA	GA
(Depends on SFID 181, see Division 2, Section 4A181)				
Centrex Network for Government Security	183	5E9(2)	GA	GA
(Depends on SFID 181, see Division 2, Section 4A181)				
Far Access Remote	184	5E9(2)	GA	GA
ASP NESS (Network Element Services Signaling)	185	5E9(2)	SU 950007	SU 950018
(Depends on SFID 139, see Division 2, Section 4A139)		5E10	GA	GA
Suppressed Ringing	186	5E9(2)	SU 950021	SU 950074
		5E10	GA	GA
IXE Tandem Calls via 2 Local Access Tandems	188	5E9(2)	SU 950022	SU 950078
		5E10	SU 950005	SU 950021
		5E11	GA	GA
ASP Originating Busy/No Answer Triggers with Extended Ringing	189	5E11	SU 97A016	SU 970041
(Depends on SFID 126, see Division 2, Section 4A126)		5E12	GA	GA
ASP Enhancements to Multiple Rate Center Support	190	5E10	SU 960017	SU 960040
(Depends on SFID 51, see Division 2, Section 4A51)		5E11	GA	GA
IS-634 A2 Interface	191	5E13	GA	GA
ICLID Enhancement for MLHG	192	5E10	SU 96A008	SU 960026
		5E11	GA	GA
E911 Trunk Failure Alarms	193	5E11	-	-
		5E12	GA	GA
A/B Link and No Path Access Delay and Blockage	194	5E11	GA	GA
TCAP Message Tandem	195	5E11	GA	GA
MLPP (Multi-Level Precedence and Preemption) on SS7-Stage 1	196	5E11	SU 970024	SU 970046
		5E12	SU 970007	SU 970001
		5E13	GA	GA
MLPP (Multi-Level Precedence and Preemption) on SS7-Stage 2	197	5E11	SU 970024	SU 970046
(Depends on SFID 196, see Division 2, Section 4A196)		5E12	SU 970007	SU 970001
		5E13	GA	GA
Number Portability - NPA-NXX Growth	198	5E12	GA	GA

NP - AMA Access Billing (Depends on SFID 180, see Division 2, Section 4A180)	199	5E11 5E12	SU 970006 GA	SU 970019 GA
Automatic SPID Download	200	5E10 5E11 5E12	SU 970003 SU 970015 GA	SU 970004 SU 970009 GA
Deny Automatic Callback on Intra-LATA PIC Calls - Per CIC Control	201	5E10 5E11 5E12	SU 960020 SU 97A016 GA	SU 960057 SU 970032 GA
LDP Multiple CIC Support (Depends on SFID 165, see Division 2, Section 4A165)	202	5E11 5E12	SU 970006 GA	SU 970007 GA
LDP Data Calls (Depends on SFID 165, see Division 2, Section 4A165)	203	5E11 5E12	SU 970006 GA	SU 970007 GA
Decoupling of AM/CM for CM-Only Initialization	204	5E12	GA	GA
Multiple Tandem Cut Through to IXC (Inter—Exchange Carrier) for CAP (Competitive Access Provider) (Depends on SFID 154, see Division 2, Section 4A154)	205	5E10 5E11	SU 960019 GA	SU 960050 GA
Data Only for PRI (Primary Rate Interface)	206	5E10 5E11 5E12	SU 970004 SU 970002 GA	SU 970005 SU 970002 GA
LDP Multiple ANI Support (Depends on SFID 165, see Division 2, Section 4A165)	207	5E12	GA	GA
Call Information Display	208	5E10 5E11 5E12	SU 97A013 - GA	- - GA
Repeat Dial Interworking with AIN Originating Busy Trigger (Depends on SFID 189, see Division 2, Section 4A189)	209	5E11 5E12	- GA	SU 970058 GA
ASP Inhibiting of Originating Busy/No Answer Office Triggers (Depends on SFID 189, see Division 2, Section 4A189)	210	5E11 5E12	- GA	SU 970056 GA
ASP Provisioning of Originating Busy/No Answer Office Triggers (Depends on SFID 189, see Division 2, Section 4A189)	211	5E12	GA	GA
Call Screening for ASP Originating Busy/No Answer Office Triggers (Depends on SFID 189, see Division 2, Section 4A189)	212	5E11 5E12	- GA	SU 960057 GA
Route International Calls by Country Code (Depends on SFID 159, see Division 2, Section 4A159)	213	5E10 5E11 5E12	SU 960025 SU 960004 GA	SU 960025 SU 960004 GA
TBCT (Two B-Channel Transfer) on PRI (Primary Rate Interface) and ISDN TBCT Notify to Controller	214	5E13	GA	GA
CDMA Data Services - Circuit Mode (Depends on SFID 221, see Division 2, Section 4A221)	215	5E12	GA	GA
NP - Non-Conditional 10-Digit Trigger for LRN (Depends on SFID 174, see Division 2, Section 4A174)	216	5E11 5E12	SU 970061 GA	SU 970061 GA

General MINT Capability, Alpha Signaling (Depends on SFID 165, see Division 2, Section 4A165)	217	5E12 5E13	SU 980024 GA	- GA
5ESS-2000 LN (Local Nodal) EO (End Office) (Depends on SFID 38, see Division 2, Section 4A38)	218	5E12	GA	GA
PRI Call-by-Call Service Selection for Hotel/Motels and SCOCs	219	5E11	GA	GA
Calling Name for ISDN PRI	220	5E11	GA	GA
CDMA (Code Division Multiple Access) (Depends on SFID 130, see Division 2, Section 4A130)	221	5E10	GA	GA
Third Party Call Control Request Route (Depends on SFID 121, see Division 2, Section 4A121)	222	5E10 5E11	SU 960002 GA	SU 960001 GA
CCITT Recommendation E.164 Compliance for 15 Digit IDDD (International Direct Distance Dialing)	223	5E10	GA	GA
PHA (Protocol Handler for Asynchronous Transfer Mode)	224	5E10	GA	GA
National ISDN 5E10 BRI Package	225	5E10	GA	GA
ASP BRCS/OHD Interworking Extensions (Depends on SFID 137, see Division 2, Section 4A137)	226	5E10	GA	GA
ASP Call Routing Parameters (Depends on SFID 126, see Division 2, Section 4A126)	227	5E10	GA	GA
ISDN PCS (Personal Communications Services) Interworking (Depends on SFIDs 137, 146, 147, 150, 185, 225, and 227, see appropriate Division 2, Section 4A)	228	5E10	GA	GA
AIN 0.2 Send To Outside Resource (Local) (Depends on SFID 126, see Division 2, Section 4A126)	229	5E10 5E11	SU 96A007 GA	SU 960018 GA
TLWS (Trunk Line Workstation Metallic Test Capability on SM2000 Using SLIM 2 (Subscriber Line and Instrument Measurements 2))	230	5E10	GA	GA
Third Party Call Control Redirect Alerting Call (Depends on SFID 122, see Division 2, Section 4A122)	231	5E10 5E11	SU 960002 GA	SU 960001 GA
Third Party Call Control Transfer/Conference Position Call (Depends on SFID 122, see Division 2, Section 4A122)	232	5E10 5E11	SU 960002 GA	SU 960001 GA
Third Party Call Control Originate Call (Depends on SFID 122, see Division 2, Section 4A122)	233	5E10 5E11	SU 960002 GA	SU 960001 GA
Switch Verification for Multiple Directory Numbers	234	5E10	GA	GA
Toll Digital Exchange ANI Table Processing (Depends on SFID 165, see Division 2, Section 4A165)	235	5E10 5E11	SU 96A004 GA	SU 960008 GA
ANI Toll Free Phase 1 (Depends on SFID 126, see Division 2, Section 4A126)	236	5E10 5E11	SU 960022 GA	SU 960053 GA
ASP Interworking with CSD (Circuit Switched Data) (Depends on SFID 126, see Division 2, Section 4A126)	237	5E10 5E11	SU 960022 GA	SU 960054 GA
Automatic Association of Default Service	238	5E10 5E11	SU 950005 GA	SU 950019 GA

ASP (Advanced Service Platform) Selective NPA Deletion for ASP Multiple Rate Center Support (Depends on SFID 51, see Division 2, Section 4A51)	239	5E10 5E11 5E12	SU 970010 - GA	SU 970015 - GA
Line Blocking Enhancement for ISVM (Inter-Switch Voice Messaging)	240	5E10 5E11 5E12	SU 970002 SU 970003 GA	SU 970002 SU 970006 GA
AIN Send to Outside Resource (Remote) (Depends on SFID 229, see Division 2, Section 4A229)	241	5E11 5E12	SU 980001 GA	SU 980001 GA
VPN-LDP (Virtual Private Network - Long Distance Platform) (Depends on SFIDs 235, 203, and 202, see Division 2, Section 4A235 or, Division 2, Section 4A203, or Division 2, Section 4A202)	242	5E11 5E12	SU 970020 GA	SU 970053 GA
Carrier Routing / Call Processing By Facility Presence (Depends on SFID 126, see Division 2, Section 4A126)	243	5E11 5E12	SU 97A021 GA	SU 970054 GA
Modified Redirecting Number Parameter Origination on PRI	244	5E10 5E11 5E12	SU 970011 SU 970015 GA	SU 970013 SU 970030 GA
RTCD (Real Time Call Detail) Platform/Application (Depends on SFID 165, see Division 2, Section 4A165)	245	5E12	GA	GA
MINT Beta Signaling (Depends on SFID 217, see Division 2, Section 4A217)	247	5E12 5E13	SU 980024 GA	- GA
MINT Gamma Signaling (Depends on SFID 217, see Division 2, Section 4A217)	248	5E12 5E13	SU 980024 GA	- GA
Reroute Queuing	249	5E12 5E13	SU 980024 GA	- GA
MINT Reroute on Release	250	5E12 5E13	SU 980024 GA	- GA
MINT Time Dependent routing	251	5E12 5E13	SU 980024 GA	- GA
AIN Announcement ID Expansion (Depends on SFID 126, see Division 2, Section 4A126)	252	5E12	GA	GA
Restrict Usage of ASP Triggers (Depends on SFID 126, see Division 2, Section 4A126)	254	5E11 5E12	SU 97A021 GA	SU 970052 GA
ASP Originating Triggers (Depends on SFID 126, see Division 2, Section 4A126 - For more information see Division 2, Section 4A254)	255	5E11 5E12	SU 97A021 GA	SU 970052 GA
ASP Dialing Plan Triggers (Depends on SFID 126, see Division 2, Section 4A126 - For more information see Division 2, Section 4A254)	256	5E11 5E12	SU 97A021 GA	SU 970052 GA
ASP Terminating Triggers (Depends on SFID 126, see Division 2, Section 4A126 - For more information see Division 2, Section 4A254)	257	5E11 5E12	SU 97A021 GA	SU 970052 GA
National ISDN Call Park	258	5E12 5E13	SU 99A002 GA	SU 980055 GA
Switched Based TDMA (Time Division Multiple Access)	259	5E12	GA	GA

Vocoders (Depends on SFID 130, see Division 2, Section 4A130)				
Protocol Monitor for CCS Signaling Links	260	5E12	SU 98A021	-
		5E13	GA	GA
LDP Operator Routing Based on Called Party Number (Depends on SFID 165, see Division 2, Section 4A165)	261	5E12	GA	GA
IBDS (Internally Bridged Dual Services), Package 1	262	5E11	SU 980005	SU 970073
		5E12	SU 980006	SU 970006
		5E13	GA	GA
IBDS (Internally Bridged Dual Services), Package 2 (Depends on SFID 262, see Division 2, Section 4A262)	263	5E12	SU 980006	SU 970007
		5E13	GA	GA
Telephone Status Monitor and Select	264	5E12	SU 980005	SU 980015
		5E13	GA	GA
Selective Manual RC Output Priority	265	5E12	GA	GA
Prohibit REX on BRI Lines Per Office	266	5E11	SU 97A021	SU 970055
		5E12	GA	GA
		5E13	GA	GA
Prohibit REX on BRI Lines Per Line	267	5E11	SU 97A021	SU 970055
		5E12	GA	GA
		5E13	GA	GA
Two Simultaneous Voice Calls on BRI	268	5E11	SU 970019	SU 970051
		5E12	GA	GA
Alternate Local Service Provider Routing	269	5E12	SU 990004	SU 990005
		5E13	GA	GA
VPN (Virtual Private Network) Expansion Package A (Depends on SFID 242, see Division 2, Section 4A242)	270	5E12	SU 98A022	-
		5E13	GA	GA
DNIS (Dialed Number Identification Service)	271	5E12	GA	GA
DALs (Direct Access Links) (Depends on SFID 126, see Division 2, Section 4A126)	272	5E12	GA	GA
Call Forward on Trunks	273	5E11	SU 97A025	SU 970075
		5E12	SU 970005	SU 970008
		5E13	GA	GA
Signaling System 7 F-Links	274	5E12	GA	GA
Feature Interactions with 10-Digit Office Dialing Plan	275	5E10	SU 970011	SU 970016
		5E11	SU 970014	SU 970038
		5E12	SU 980001	SU 970017
		5E13	GA	GA
NP Service Provider Portability AMA Enhancements (Depends on SFID 199, see Division 2, Section 4A199)	276	5E11	SU 98A013	SU 980023
		5E12	SU 98A017	SU 980028
		5E13	GA	GA
VFDE (Voice Frequency Data Enhancement)	277	5E11	SU 980008	SU 980010
		5E12	SU 980008	SU 980010
		5E13	GA	GA
Local Trunk Billing Enhancement	278	5E11	SU 980006	SU 980006
		5E12	SU 980007	SU 980006
		5E13	GA	GA
GETS (Government Emergency Telecommunications Service) High Probability of Call Completion	279	5E13	GA	GA
IBDS (Internally Bridged Dual Service) - Package 3 (Depends on SFID 263, see Division 2, Section 4A263)	280	5E13	GA	GA
Operator & Directory Assistance Billing for Unbundled	281	5E11	SU 98A011	SU 980019

Local Switching		5E12	SU 98C014	SU 980025
II Digits Screening (Depends on SFID 165, see Division 2, Section 4A165)	282	5E13	GA	GA
Ability to stop RST:TRK, TKGMN	283	5E12	SU 980011	SU 980011
		5E13	GA	GA
Recovery from ABD (Alternate Boot Disks)	284	5E13	GA	GA
CDMA Data Services-Packet Mode (Depends on SFID 130, see Division 2, Section 4A130)	285	5E13	-	-
TDMA Data Services-Circuit Mode (Depends on SFIDs 259 and 130, see Division 2, Section 4A259 or Division 2, Section 4A130)	286	5E13	-	-
5ESS-2000 LDP (Long Distance Platform) MINT Expansion Package A (Depends on SFID 165, see Division 2, Section 4A165)	287	5E13	SU 990009	SU 990031
		5E14	GA	GA
OSPS CSG (Communications Services Group)	288	5E9(1)	SU 940020	-
Secured Feature Office Identifier		5E9(2)	GA	GA
LDP (Long Distance Platform) RTI (Route Index) Expansion/List	289	5E13	-	-
LDP (Long Distance Platform) Final Route Trigger (Depends on SFID 237, see Division 2, Section 4A237)	290	5E13	-	-
Deny Transfer of Digit Screened Calls	291	5E12	-	-
		5E13	GA	GA
Simplified Custom ISDN Attendant	292	5E12	-	-
		5E13	-	-
E911 Call Error Detection and Alarm	293	5E11	SU 980011	SU 980017
		5E12	SU 98C014	-
		5E13	GA	GA
Route Outage AML (Automatic Maintenance Limit)	294	5E11	SU 98A011	SU 980017
E911 Call Error Detection and Alarm		5E12	SU 98C014	SU 980022
		5E13	GA	GA
ASP Persistent Transactions Enhancements (Depends on SFID 126, see Division 2, Section 4A126)	295	5E12	SU 990009	SU 990007
		5E13	SU 980007	-
Delete Warning Display for Essential Services	296	5E11	SU 980009	SU 980020
		5E12	SU 980011	SU 980024
		5E13	GA	GA
ASM (Administrative Services Module) Base	297	5E12	-	-
		5E13	GA	GA
Wireless E911 (Depends on SFID 61, see Division 2, Section 4A61)	298	5E12	SU 98A016	-
		5E13	GA	GA
FGD (Feature Group D) Interface to E911 (Depends on SFID 61, see Division 2, Section 4A61)	299	5E12	SU 980013	-
		5E13	GA	GA
Number Portability - Test Query for LRN (Depends on SFID 126, see Division 2, Section 4A126)	300	5E11	SU 98A011	SU 980027
		5E12	SU 980016	SU 980027
		5E13	GA	GA
ASP Network Busy Event (Depends on SFID 126, see Division 2, Section 4A126)	301	5E13	GA	GA
Enhanced Alternate Carrier Routing (Depends on SFID 126, see Division 2, Section 4A126)	302	5E13	GA	GA
LPN (Local Number Portability) on the LDP (Long	303	5E12	-	-

Distance Toll Platform) (Depends on SFID 174, see Division 2, Section 4A174)		5E13	GA	GA
Number Portability - Non-Conditional Trigger for DID Trunks (Depends on SFID 216, see Division 2, Section 4A216)	304	5E11 5E12 5E13	SU 980014 SU 980021 GA	SU 980038 SU 980051 GA
Global Recent Change Interaction with LASS AR (Depends on SFID 189, see Division 2, Section 4A189)	305	5E11 5E12 5E13	SU 980016 SU 98A022 GA	SU 980040 SU 980040 GA
5E Acceptance of 1A Wink NPD and ANI for 911 Routed Calls (Depends on SFID 61 and 193, see Division 2, Section 4A61 or Division 2, Section 4A193)	314	5E11 5E12 5E13	SU 980003 SU 980017 GA	- SU 980046 GA
Incoming/Outgoing Trunk Group Usage Counts	315	5E13 5E14	- GA	- GA
OSDE (On-Site Data Evolution) (Depends on SFID 297, see Division 2, Section 4A297)	316	5E12 5E13	- GA	- GA
Packet Pipe Enhancements (Depends on SFID 221, see Division 2, Section 4A221)	317	5E13 5E14	- GA	- GA
CNAM (Originating Switch Calling Name)	318	5E13	GA	GA
NP Service Provider Portability AMA Enhancements II (Depends on SFID 199, see Division 2, Section 4A199)	319	5E11 5E12 5E13 5E14	SU 980013 SU 98A017 GA GA	SU 980032 SU 980028 GA GA
Feature Deployment via the Data Services Module (Depends on SFID 297, see Division 2, Section 4A297)	320	5E12 5E13	- SU 99A004	- -
AMA Recording for Resale and Unbundling	321	5E12 5E13 5E14	- - GA	- - GA
Recent Change Front End on the ASM (Depends on SFID 297, see Division 2, Section 4A297)	322	5E13	GA	GA
Trunk Group Hunt Sequence Enhancements	323	5E13	GA	GA
OSPS Listing Services - International Directory Assistance	324	5E12 5E13 5E14	SU 980023 SU 980002 GA	SU 980078 - GA
City Code Routing on International Calls	325	5E12 5E13	SU 980026 SU 980004	- SU 980006
Number Portability - Officewise Reserved Marketing (Depends on SFID 174, see Division 2, Section 4A174)	326	5E12 5E13 5E14	SU 98A021 SU 980005 GA	SU 980064 SU 980013 GA
ADSI Acknowledgment Timer Optional Value (Depends on SFID 140, see Division 2, Section 4A140)	327	5E12 5E13 5E14	SU 980025 SU 980004 GA	SU 980060 - GA
Support for AMADNS Phase 1 (Depends on SFID 297, see Division 2, Section 4A297)	328	5E12 5E13 5E14	- SU 990005 GA	- SU 990012 GA
OSPS Limit for Customer-Controlled Reconnect to LS/DA	329	5E12 5E13 5E14	SU 990004 SU 990003 GA	SU 980057 - GA
Tandem to Tandem E911 (Depends on SFID 61, see Division 2, Section 4A61)	330	5E12 5E13 5E14	SU 990005 SU 980006 GA	SU 990010 SU 990014 GA

Talking Call Waiting	331	5E12 5E13 5E14	SU 99B006 SU 99A005 GA	SU 990017 SU 990019 GA
Pay Phone Compensation for Tollfree Calls, Tollfree Calling Enhancement for Flexible ANI II	332	5E11 5E12 5E13 5E14	SU 990002 SU 990007 SU 990007 GA	SU 990001 SU 990018 SU 990026 GA
ASP Send to Outside Resource Interworking with Orig Busy/No Answer with Extended Ringing (Depends on SFID 126, 189, and 229, see Division 2, Section 4A126 or Division 2, Section 4A189 or Division 2, Section 4A229)	333	5E12 5E13 5E14	SU 990006 - GA	SU 990016 - GA
Call Forward Don't Answer - Ring Control	335	5E12 5E13 5E14	SU 990004 SU 99A004 GA	SU 990006 SU 990009 GA
NPA to NPD Translation Table for E911 Calls (Depends on SFID 61, see Division 2, Section 4A61)	337	5E12 5E13 5E14	SU 990009 SU 990007 GA	SU 990011 SU 990015 GA
OSPS DIALECT by OLS	338	5E12 5E13 5E14	- - GA	- - GA
OSPS Customized Operator Service - Release 1	339	5E12 5E13 5E14	- - GA	- - GA
866 - 822 Toll Free Service (Depends on SFID 158, see Division 2, Section 4A158)	340	5E12 5E13 5E14	- - GA	- - GA
Distinctive Call Forwarding Alert	341	5E12 5E13 5E14	- - GA	- - GA
Module 55803 Enhancement	342	5E13 5E14	SU 990010 GA	- GA
ASP Mid Call Event Detection (Depends on SFID 126, see Division 2, Section 4A126)	343	5E13 5E14 5E15	- - -	- - -
Raw Formatted Output for Office Records	344	5E12 5E13 5E14	IMR 664621 IMR664621 GA	IMR 664621 IMR664621 GA
ASP Mid Call Event Detection (Depends on SFID 126, see Division 2, Section 4A126)	345	5E13 5E14 5E15	- - GA	- - GA
NP - Append BAF Module 164 with CNA (Chargeable Account Number)	346	5E13	GA	GA
Announcement on Detection of NPA Split	347	5E13 5E14 5E15	FR4 FR3 GA	- - GA
LDP AMA Correlation Module	348	5E13 5E14	IMR 671818 GA	SU 990060 GA
TSI Nailup of Consecutive DS0s for DNU-S	349	5E13 5E13 5E14	FR1 IMR 674164 FR2 IMR 674164 GA	99-0073 99-0024 GA
Multiline Hunt Group Capacity Expansion	351	5E15	GA	GA
OSPS Interflow for Operator Conferences	361	5E9(1)	GA	GA
OSPS ICCV Call Screening	362	5E9(1)	GA	GA
OSPS CLID - Carrier Specific Routing	363	5E9(1)	GA	GA
OSPS Operator Trouble Report with Automated Position	364	5E9(1)	GA	GA
OSPS Card Based Speed Dialing - Phase 2	365	5E9(1)	SU 940002	SU 940017

		5E9(2)	GA	GA
OSPS Screening for Real Time Call Details	366	5E9(1)	SU 940008	SU 940019
		5E9(2)	GA	GA
OSPS Speed Dialing Auto Provisioning (Depends on SFID 365, see Division 2, Section 4A365)	367	5E9(2)	GA	GA
OSPS LIDB - Recognition of PSDI Value 4	368	5E9(1)	SU 940003	SU 940003
		5E9(2)	GA	GA
OSPS Enhanced AMA for Listing Services	369	5E9(1)	SU 940020	SU 940054
		5E9(2)	GA	GA
OSPS Automated Inward Line Screening	370	5E9(1)	SU 940023	SU 940106
		5E9(2)	SU 940009	SU 940009
		5E10	GA	GA
OSPS Terminating Point Restriction Expansion	371	5E9(1)	SU 940023	SU 940061
		5E9(2)	GA	GA
OSPS Prepaid Overtime for Coin Calls	372	5E9(1)	SU 940018	SU 940043
		5E9(2)	GA	GA
OSPS Feature Group D Incoming Signaling for Special Applications - Release 2	373	5E9(1)	SU 940018	SU 940048
		5E9(2)	GA	GA
OSPS Calling Card Screening by Carrier	374	5E9(1)	SU 940018	SU 940047
		5E9(2)	GA	GA
OSPS TCS Screen Code Expansion	375	5E9(1)	SU 940020	SU 940056
		5E9(2)	GA	GA
OSPS Recall from Subscriber Deactivation	376	5E9(1)	SU 940023	SU 940053
		5E9(2)	GA	GA
OSPS 800 Access Using Feature Group D Signaling	377	5E9(1)	SU 940026	SU 940075
		5E9(2)	GA	GA
OSPS Carrier Specific Branding on Seizure for ACCS and ACTS	378	5E9(1)	SU 940030	SU 940079
		5E9(2)	SU 940009	SU 940004
		5E10	GA	GA
OSPS LEC Feature Group D Incoming Signaling/Special Handling of Calls	379	5E9(1)	SU 940030	SU 940086
		5E9(2)	SU 940009	SU 940004
		5E10	GA	GA
OSPS Network Access Interrupt	380	5E9(1)	SU 940038	SU 940095
		5E9(2)	SU 950002	SU 940022
		5E10	GA	GA
OSPS Customer Controlled Reconnect to DA	381	5E9(1)	SU 94A037	SU 940105
		5E9(2)	SU 950005	SU 950020
		5E10	GA	GA
OSPS Forward Number Interdigit Timing Change	382	5E9(1)	SU 940034	SU 940092
		5E9(2)	SU 950002	SU 940018
		5E10	GA	GA
OSPS Feature Group D Enhancements (Depends on OFID 617, see Division 2, Section 4A617)	383	5E9(1)	SU 940034	SU 940091
		5E9(2)	SU 950002	SU 940002
		5E10	GA	GA
OSPS ASAP - Release 2	384	5E9(1)	SU 94A037	SU 940099
		5E9(2)	SU 950002	SU 940025
		5E10	GA	GA
OSPS Inmate Calling Service	385	5E9(2)	SU 950009	SU 950033
		5E10	GA	GA
OSPS International Billed Number Screening - Release 2	386	5E9(1)	SU 940002	SU 940116
		5E9(2)	SU 950004	SU 940026
		5E10	GA	GA
OSPS TPR Expansion for International Numbers	387	5E9(2)	SU 950004	SU 950002
		5E10	GA	GA
OSPS ACCS for Commercial Credit Cards	388	5E9(2)	SU 950004	SU 950004
		5E10	GA	GA
OSPS Extending Round Trip Delay for OSC	389	5E10	GA	GA

OSPS ACCS Thank You Branding Timer	390	5E9(2) 5E10	SU 950005 GA	SU 950026 GA
OSPS Teleconferencing Service Signaling Interface	391	5E9(2) 5E10	SU 950010 GA	SU 950030 GA
OSPS AMA Recording of the Access ID for CAP Calls	392	5E9(2) 5E10	SU 950007 GA	SU 950022 GA
OSPS BNS Query Message Enhancements	393	5E9(1) 5E9(2) 5E10	SU 950004 SU 950005 GA	SU 950004 SU 950017 GA
OSPS Expanding Interflow Incoming Trunks	394	5E10	GA	GA
Incoming ISUP (SS7) to OSPS	395	5E10	GA	GA
OSPS 1+ Time And Charges	396	5E9(1) 5E9(2) 5E10	SU 950007 SU 950011 GA	SU 950012 SU 950032 GA
OSPS Specialized AMA for 15 Digit International	397	5E10	GA	GA
OSPS ASAP for Language Specific Operator Services	398	5E9(2) 5E10	SU 950007 GA	SU 950027 GA
Using Route Number				
OSPS Early Position Release of International Calls	399	5E9(2) 5E10	SU 950013 GA	SU 950038 GA
OSPS Purchase Limits Balance Quotation	400	5E9(2) 5E10	SU 950016 SU 950003	SU 950050 SU 950008
Business/Residential Cards				
OSPS AATOS Fraud Control	401	5E9(2) 5E10	SU 950018 GA	SU 950054 GA
OSPS Quiet Hear	402	5E9(2) 5E10 5E11	SU 950020 SU 950006 GA	SU 950061 SU 960007 GA
OSPS AATLSOS - Automated Access Prompt	403	5E9(2) 5E10 5E11	SU 950020 SU 950006 GA	SU 950063 SU 950003 GA
OSPS Closed End Branding for Operator Handling Calls	404	5E9(2) 5E10 5E11	SU 950021 SU 950005 GA	SU 950070 SU 950015 GA
OSPS 800 Toll Free Services NPA Expansion	405	5E10	GA	GA
OSPS Allow Leading 1 and 011 for Automated Phone Number Collection	406	5E9(2) 5E10 5E11	SU 950022 SU 950004 GA	SU 950067 SU 950001 GA
OSPS DACC AMA Record with Operator Entered Forward Number	407	5E9(2) 5E10 5E11	SU 950022 SU 960002 GA	SU 950071 SU 960020 GA
OSPS Automation of T&A Information	408	5E10 5E11	SU 960002 GA	SU 960022 GA
OSPS Automation of TCS/CPS Override	409	5E10 5E11	SU 96A010 GA	SU 960028 GA
OSPS Universal T1.5 Access Signaling Changes	410	5E11	GA	GA
OSPS Identification of Calls Originated Through Special Access Methods	411	5E10 5E11	SU 960009 GA	SU 960025 GA
OSPS Automated Access Prompting using Call Processing Data Links	412	5E10 5E11	SU 960025 GA	SU 960046 GA
OSPS OLS Call Routing for Special Services	413	5E10 5E11	SU 96A010 GA	SU 960024 GA
OSPS ASAP Language Specification Operator Services Rating Changes	414	5E10 5E11 5E12	SU 960017 SU 960007 GA	SU 960044 SU 960001 GA
OSPS Record and Playback	415	5E10 5E11 5E12	SU 960019 SU 960006 GA	SU 960052 SU 960004 GA
OSPS Bill To Third Fraud Control Based on Third Number NPA	416	5E10 5E11	SU 960016 SU 960005	SU 960037 -

		5E12	GA	GA
OSPS Local Number Portability for Local Exchange Carrier Offices	417	5E11	SU 960007	SU 970007
		5E12	GA	GA
OSPS VMS Access Dialing Changes	418	5E10	SU 960028	SU 960068
		5E11	SU 970001	SU 960015
		5E12	GA	GA
OSPS Local Number Portability for AT&T Version	419	5E11	SU 960007	SU 970007
		5E12	GA	GA
OSPS Customer Account Services International Intercept	420	5E10	SU 960025	SU 960061
		5E11	SU 960005	SU 960003
		5E12	GA	GA
OSPS Inmate Calling Services Allow Coin Handling	421	5E10	SU 960023	SU 960060
		5E11	SU 960006	SU 960006
		5E12	GA	GA
OSPS AMA Recording for Listing Services Search Types	422	5E10	SU 970002	SU 960075
		5E11	SU 970002	SU 970004
		5E12	GA	GA
OSPS 800 Universal International Numbering	423	5E11	SU 97A008	SU 970018
		5E12	GA	GA
OSPS CICADA Release 3	424	5E10	SU 960028	SU 960069
		5E11	SU 970002	SU 970003
		5E12	GA	GA
OSPS DIALECT (Direct Integrated Access to Language Enhanced Capabilities)	425	5E11	SU 97A019	SU 970047
		5E12	GA	GA
OSPS NPA Handling by Trunk Group	426	5E11	SU 97A008	SU 970024
		5E12	GA	GA
OSPS LS: Automated Directory Assistance System Release 1	427	5E10	SU 97A006	SU 970009
(Depends on SFID 415, see Division 2, Section 4A415)		5E11	SU 97A009	SU 970025
		5E12	GA	GA
OSPS Rate for Flat and Measured Service	428	5E11	SU 970016	SU 970033
		5E12	GA	GA
OSPS LSCC with SS7 Redirection	429	5E11	SU 970023	SU 970040
		5E12	GA	GA
OSPS TCS-NPA Expansion	430	5E11	SU 970018	SU 970039
		5E12	GA	GA
OSPS AMA - Record ANI II Digits - Interim	431	5E11	SU 97A009	SU 970026
		5E12	GA	GA
OSPS ACCS - Special Calling Card Handling - LEC Pin Prompt	432	5E11	SU 970014	SU 970036
		5E12	GA	GA
OSPS ACCS - Special Calling Card Handling - 10 Digit True	433	5E11	SU 970014	SU 970036
Choice Calling Card		5E12	GA	GA
OSPS AMA - Record ANI II Digits	434	5E11	SU 97A019	SU 970049
		5E12	SU 97B007	SU 970010
		5E13	GA	GA
OSPS DIOR with Commercial Credit Card Capability	435	5E11	SU 970023	SU 970064
		5E12	SU 980005	SU 970011
		5E13	GA	GA
OSPS 800 Peel Out for Calling Card	436	5E12	SU 980005	SU 980007
		5E13	GA	GA
OSPS 800 Peel Out for Multiple Card	437	5E12	SU 980005	SU 980007
		5E13	GA	GA
OSPS CDR Charging Records	438	5E12	SU 980005	SU 980007
(Depends on SFID 245, see Division 2, Section 4A245)		5E13	GA	GA
OSPS Automated Sequential Card Queries	439	5E12	GA	GA
OSPS PLBQ With Add-On Capability	440	5E11	SU 980003	SU 980002

		5E12	SU 980007	SU 980001
		5E13	GA	GA
OSPS CCS7 Incoming Signaling Wireless Call Indicator	442	5E11	SU 980005	SU 980008
		5E12	SU 980006	SU 980016
		5E13	GA	GA
OSPS National DA 00-Access LSCC with SS7 Redirection	443	5E11	SU 980001	SU 980003
		5E12	SU 980002	SU 980002
		5E13	GA	GA
OSPS CAS TCAP Query Changes for International Terminating Numbers	444	5E11	SU 970024	SU 970066
		5E12	SU 97B006	SU 970012
		5E13	GA	GA
OSPS IBNS Call Blocking	445	5E11	SU 980005	SU 970078
		5E12	SU 980006	SU 970016
		5E13	GA	GA
OSPS Acceptance of New Parameters in LIDB BNS and Card Replies	446	5E11	SU 980006	SU 980005
		5E12	SU 980003	SU 980003
		5E13	GA	GA
OSPS Credit Key Blocking	447	5E11	SU 980005	SU 980009
		5E12	SU 980006	SU 980009
		5E13	GA	GA
OSPS AMA - Record ANI II Digits - Release 2	448	5E11	SU 980003	SU 970071
		5E12	SU 980009	SU 980004
		5E13	GA	GA
OSPS NPA Code Expansion	449	5E12	SU 980024	SU 980063
		5E13	GA	GA
OSPS Flexible Automated Call Type Determination	450	5E13	GA	GA
OSPS 0- LEC Calls Maintenance Assert Handling	451	5E13	GA	GA
OSPS Originating Line Number Screening	452	5E12	SU 980024	SU 980069
		5E13	SU 990003	SU 990003
		5E14	GA	GA
OSPS DIOR 800 Services	453	5E12	SU 98A021	SU 980048
		5E13	GA	GA
OSPS ATT LNP (Local Number Portability) Using Single Number Query	454	5E12	SU 980022	SU 980049
		5E13	GA	GA
OSPS Flexible ANI Enhancement	455	5E11	SU 98A009	SU 980025
		5E12	SU 98C014	SU 980031
		5E13	GA	GA
OSPS AATLSOS-Automated Access Prompting Non-Tariffed Announcement	457	5E11	SU 98A009	SU 980026
		5E12	SU 980A17	SU 980030
		5E13	GA	GA
		5E14	GA	GA
OSPS ESP 5ESS Operator Services Overlay Interface Control (and ES System Integrity/Reliability (99-5E-4327.A) see Division ???)	458	5E12	-	-
		5E13	-	-
		5E14	GA	GA
OSPS DA Listing in AMA Record	459	5E12	SU 990004	SU 990004
		5E13	SU 990003	SU 990008
		5E14	GA	GA
OSPS Control of DACC per LS/DA Transporting Carrier	460	5E12	SU 980025	SU 980068
		5E13	SU 980004	SU 980001
		5E14	GA	GA
OSPS DIOR Calling Card Restrictions to Domestic Terminations	461	5E12	SU 980025	SU 980076
		5E13	SU 990002	SU 980012
		5E14	GA	GA
OSPS Rate Announcement on 0+ Call, Release 2	462	5E12	SU 980023	SU 980071
		5E13	SU 980004	SU 980004
		5E14	GA	GA
OSPS ANSI Incoming Signaling System No. 7 from End	463	5E14	GA	GA

Office				
OSPS Listing Services Call Completion Service	464	5E12	SU 990005	SU 990003
Measurements		5E13	SU 990005	SU 990007
		5E14	GA	GA
OSPS - Rate Announcement on 0+ Calls	465	5E15	GA	GA
OSPS Provide Account Owner to LSDB	466	5E14	GA	GA
NP Verify Office for LRNs	505	5E14	GA	GA
DRM-2000	506	5E14	GA	GA
ASP Terminating Busy/NoAnswer Triggers and Subsequent Event Detection	507	5E14	-	-
(Depends on SFID 126, see Division 2, Section 4A126)		5E15	GA	GA
ASP Display on BRI	508	5E14	-	-
(Depends on SFID 126, see Division 2, Section 4A126)		5E15	GA	GA
CALEA - Core	509	5E14	GA	GA
Wireless Digital Loop Carrier (RDT on a Switch)	510	5E14	GA	GA
(Depends on SFID 221, see Division 2, Section 4A221)				
Message Waiting Indicator MWI Via PRI NOTE: FEATURE CANCELLED	511	5E14	GA	GA
FGD (Feature Group D) Cut Through Enhancements	512	5E13	SU 990009	SU 990030
(Depends on SFID 165, see Division 2, Section 4A165)		5E14	GA	GA
PINNACLE Third Party Call Control Enhancements 1	513	5E13	-	-
(Depends on SFID 123, see Division 2, Section 4A123)		5E14	GA	GA
National ISDN Smart Attendant Service	514	5E14	GA	GA
Proprietary.	515	5E14	GA	GA
Default Routing for Off-Hook Delay Triggers	516	5E14	GA	GA
(Depends on SFID 126, see Division 2, Section 4A126)				
AIN Furnish AMA Information Component	517	5E14	GA	GA
(Depends on SFID 126, see Division 2, Section 4A126)				
AC/AR by Destination Point Code	518	5E13	SU 980005	SU 980010
		5E14	GA	GA
Release Link for Toll - ANSI Standard Protocol and TOPS Nonstandard Protocol	520	5E14	GA	GA
(Depends on SFID 165 and OFID 788, see Division 2, Sections 4A165 and 4B788)				
Release Link for Toll - TOPS Nonstandard Protocol	521	5E14	GA	GA
(Depends on SFID 165 and OFID 788, see Division 2, Sections 4A165 and 4B788)				
SS7 PSU MTP Routing Enhancements	522	5E14	-	-
Improved RC Verify	523	5E13	-	-
		5E14	GA	GA
LD CIC at Terminating Tandem	524	5E14	-	-
		5E15	GA	GA
DRM (Distinctive Remote Module)	525	5E14	GA	GA
Call Screening	526	5E14	-	-
Verify Office Capability for Long Distance Platform	527	5E14	FR1	SU990008
		5E15	GA	GA
ASP Toll Free Service Interaction with Flexible ANI Features	528	5E13	-	-
(Depends on SFID 332, see Division 2, Section 4A332)		5E14	-	-
		5E15	GA	GA
CALEA PHASE III	529	5E14	GA	GA
1000 Block Number Pooling Using Number Portability	530	5E14	FR3	-

(Depends on SFID 174, see Division 2, Section 4A174 and OFID 955, see Division 3, Section 5AS)		5E15	GA	GA
TCP/IP Interface for Traffic Measurements	532	5E15	GA	GA
CNA CC720 Modification	533	5E14	FR2	-
(Depends on SFID 180, see Division 2, Section 4A180)		5E15	GA	GA
ASP AMA Recording for Abandoned STOR	534	5E13	FR3	-
Connections		5E14	FR2	-
(Depends on SFID 229, see Division 2, Section 4A229)		5E15	GA	GA
MDR (Multi-Distinctive Ringing)/CW (Call Waiting/CF (Call Forwarding) Interaction Enhancement (FAX Ring)	535	5E14	GA	GA
60 Minute Traffic Reporting Option	537	5E14	GA	GA
Type 1/2A/1B CMC ID Enhancement	538	5E14	FR1	SU990003
(Depends on SFIDs 128, 160, and 167. Refer to Division 2 Section 4A538)		5E15	GA	GA
Proxy Database Phase 1 Proxy Database	539	5E15	GA	-
Easy Access to Voice Mail	540	5E15	GA	GA
Proprietary.	541	5E15	GA	GA
64KBPS X.75/X.75 Trunk Group	542	5E13	FR3	SU 000007
		5E14	FR2	SU 000014
		5E15	GA	GA
OSPS DA Custom Branding by Account Owner	543	5E13	FR3	SU 000011
(Depends on OFID 970)		5E14	FR2	-
		5E15	GA	GA
Usage Sensitive Call Forwarding (USCF)	544	5E15	GA	GA
Multi Services Platform Summary Alarm Status	545	5E14	FR2	-
		5E15	GA	GA
Terminating Trunk Group Trigger (Depends on SFID 126, see Division 2, Section 4A126.)	546	5E15	GA	GA
Proprietary.	547	5E15	FR1	-
Proprietary.	548	5E15	FR2	-
Audible Calling Name on *69 (Automatic Callback)	549	5E14	FR3	-
(Depends on OFID 971. See Division 2, Section 4B971.)		5E15	GA	GA
PBX Calling ID	550	5E14	FR3	-
		5E15	GA	GA
Flexible DNIS (Dialed Number Information Service)	551	5E14	FR3	-
		5E15	GA	GA
Echo Cancellation for CDMA	552	5E15	GA	GA
Usage Sensitive Six-Way Calling	553	5E15	GA	GA
Dial Code Terminal Make Busy for MLHGS	555	5E15	GA	GA
II/OLI Delivery for National ISDN PRI	556	5E14	FR3	-
		5E15	GA	GA
ASP CDP on PRI	557	5E15	GA	GA
TCW - Inter-LATA Call Enhancements	558	5E14	FR3	-
		5E15	GA	GA
DA Automatic Position Release	559	5E14	FR3	-
(Depends on OFID 977. See Division 2, Section 4B977.)				
ASP Extended TSTRC Timer	560	5E15	GA	GA
Rate Area Exchange Increase	561	5E15	GA	GA
ASP Monitor for BRI and Multiline Hunt Group	563	5E15	FR1	-
DAS Increase	564	5E15	GA	GA
AMA Module 104 Direction Indicator	565	5E14	FR3	-
		5E15	GA	GA
Customer Recent Change Input For Critical Translations Protection	566	5E15	GA	GA
ATM Global Routing and Signaling	567	5E15	FR1	-
OSPS Commercial Credit Card Alternate Access	568	5E14	FR4	-

Methods		5E15	GA	GA
VTOA [Voice Telephony Over ATM (Asynchronous Transfer Mode)] LS (Local Services)	569	5E15	FR-PSAX	-
(Depends on SFID 567. See Division 2, Section 4A567.)		5E16	GA	GA
Proxy Database Phase 1 Recent Change and SQUAL	570	5E15	GA	-
Proxy Database Phase 1 User Defined Database	571	5E15	GA	-
ASP Unrestricted FCD Trigger	572	5E15	FR1	-
Non-Restrictive ANI over Private Facility	573	5E14	FR3	-
		5E15	GA	GA
LTSB Interworking with Home Intercom	575	5E15	FR2	-
		5E16	GA	GA
Per Use Three Way Calling with Call Transfer	577	5E15	FR3	-
This feature requires a USTWC feature to be active, therefore ACT must be "Y" for SFID 106 or SFID 156.		5E16	GA	GA
Visual Call Pickup	578	5E15	FR2	-
		5E16	GA	GA
Talking Call Waiting with Caller ID	579	5E16	GA	GA
AIN Operator Services Trigger	584	5E16	GA	-
Furnish AMA Recording for Abandoned STOR	585	5E15	FR2	-
Connections			GA	GA
Direct Call Transfer to Voice Mail	586	5E16	GA	GA
Simultaneous Ringing	587	5E16	GA	GA
Call Transfer Enhancements	588	5E16	GA	GA
ESN (Emergency Service Number) Expansion for E911	589	5E16	GA	GA
(Depends on SFID 61. See Division 2, Section 4A61.)				
Talking Call Waiting - Distinctive Call Waiting Tones	590	5E16	GA	GA
FCCS (Forwarded Call - Call Screening) Enhancement	592	5E16	GA	GA
AIN Ping Ring in a Forward Call Message	593	5E15	FR 2	-
		5E16	GA	GA
Code Conversion Expansion for N11	594	5E15	FR3	-
		5E16	GA	GA
RC Security for View and Class with Login ID	595	5E15	FR3	-
		5E16	GA	GA
Trunk Group Register Expansion	596	5E15	FR3	-
		5E16	GA	GA
Carrier Selection Information Default Handling for the Long Distance Platform Feature	597	5E14	-	-
		5E15	-	-
		5E16	GA	GA
Expanded Virtual Terminal Access for ASM	598	5E16	GA	GA
G.168-2000 Compliance and Acoustic Echo Cancellation on PHV5	599	5E16	GA	GA
Use of NPA for E911 Default Routed Calls	600	5E15	FR3	-
		5E16	GA	GA
Billing and Comptrollers	601	5E15	FR3	-
7R/E Packet Solutions 4.0 ATM Transport Solution	602	5E16	GA	GA
SS7 Using Operator Services	603	5E16	FR2	-
PRI Calling Name for the Canadian Market	604	5E15	-	SU 010046
		5E16	GA	GA
TCP/IP for SCCS/NFM	608	5E15	IMR 731330	SU 10058
External Interface Infrastructure Expansion	609	5E15	IMR 731330	SU 10061
Increased ASM Disk Space For AMADNS	610	5E15	IMR 732254	SU 10062
FAT Numbering	614	5E16(2)	FR 5	-
SS7-PSU Remove Routing Data From Dedicated Host	615	5E15	FR5	-
GSM				
FAT Conflict	616	5E16(2)	FR 4	-
CNI Network ID Expansion	619	5E16(1)	GA	GA
CNI/PSU Support for 128K ISUP Trunk	622	5E15	SU 20006	SU 20001
IWG PCT Link Reservation	624	5E16(2)	-	-
(Feature has been canceled)				
Network Management Hard-To-Reach	625	5E16(2)	GA	GA
Network Management Code Specific Reroute	626	5E15 FR4.5	FR4.5	-

		5E16	GA	GA
Increase Terminal Sessions for Read Only RC on ASM	627	5E15	FR4	SU 20018
TCP/IP Security Enhancements for CALEA	628	5E15 FR5	FR5	-
		5E16	GA	GA
EAI (Emergency Action Interface) via ASM	631	5E15 FR5	FR5	-
		5E16	GA	GA
Digital Trunk Interface for TAU (Test Access Unit).	632	5E15	FR1	-
		5E16	GA	GA
Critical Alarms (DCS) Improvement	633	5E16(1)	SU 2A004	SU 20008
Voice and Data Channel Counts	635	5E16(2)	GA	GA
Dual PSU RTU feature for 1 SM (See Division 2, Section 7BK.)	636	5E16	FR2	-
Dual PSU RTU feature for 2 SMs (See Division 2, Section 7BK.)	637	5E16	FR2	-
Dual PSU RTU feature for 3 SMs (See Division 2, Section 7BK.)	638	5E16	FR2	-
Dual PSU RTU feature for 4 SMs (See Division 2, Section 7BK.)	639	5E16	FR2	-
Dual PSU RTU feature for 5 SMs (See Division 2, Section 7BK.)	640	5E16	FR2	-
Dual PSU RTU feature for 6 SMs (See Division 2, Section 7BK.)	641	5E16	FR2	-
Dual PSU RTU feature for 7 SMs (See Division 2, Section 7BK.)	642	5E16	FR2	-
Dual PSU RTU feature for 8 SMs (See Division 2, Section 7BK.)	643	5E16	FR2	-
Dual PSU RTU feature for 9 SMs (See Division 2, Section 7BK.)	644	5E16	FR2	-
Dual PSU RTU feature for 10 SMs (See Division 2, Section 7BK.)	645	5E16	FR2	-
Dual PSU RTU feature for 11 SMs (See Division 2, Section 7BK.)	646	5E16	FR2	-
Dual PSU RTU feature for 12 SMs (See Division 2, Section 7BK.)	647	5E16	FR2	-
Dual PSU RTU feature for 13 SMs (See Division 2, Section 7BK.)	648	5E16	FR2	-
Dual PSU RTU feature for 14 SMs (See Division 2, Section 7BK.)	649	5E16	FR2	-
Dual PSU RTU feature for 15 SMs (See Division 2, Section 7BK.)	650	5E16	FR2	-
Dual PSU RTU feature for 16 SMs (See Division 2, Section 7BK.)	651	5E16	FR2	-
Dual PSU RTU feature for 17 SMs (See Division 2, Section 7BK.)	652	5E16	FR2	-
Dual PSU RTU feature for 18 SMs (See Division 2, Section 7BK.)	653	5E16	FR2	-
Dual PSU RTU feature for 19 SMs (See Division 2, Section 7BK.)	654	5E16	FR2	-
Dual PSU RTU feature for 20 SMs (See Division 2, Section 7BK.)	655	5E16	FR2	-
Dual PSU RTU feature for 21 SMs (See Division 2, Section 7BK.)	656	5E16	FR2	-
Dual PSU RTU feature for 22 SMs (See Division 2, Section 7BK.)	657	5E16	FR2	-
Dual PSU RTU feature for 23 SMs (See Division 2, Section 7BK.)	658	5E16	FR2	-
Dual PSU RTU feature for 24 SMs (See Division 2, Section 7BK.)	659	5E16	FR2	-
Dual PSU RTU feature for 25 SMs (See Division 2, Section 7BK.)	660	5E16	FR2	-

CM3 TMS Fabric Expansion (see Division 2, Section 7BO)	662	5E16(2)	GA	GA
CM3 TMS Fabric Expansion (see Division 2, Section 7BO)	663	5E16(2)	GA	GA
CM3 TMS Fabric Expansion (see Division 2, Section 7BO)	664	5E16(2)	GA	GA
GETS Enabled Edge Switch (depends upon SGID 279 and SFID 218)	665	5E16(2)	GA	GA
New Traffic Measurements for NxTMS	666	5E16(2)	GA	GA
Call Transfer/COT/AC Enhancements	667	5E16	GA	GA
AIN Activity Test Message (Depends on SFID 126. See Division 2, Section 4A126.)	668	5E16(2)	FR1	SU 30001
Patch Space Recovery Tool	669	5E16(2)	FR 1	-
SAAL SS7 High Speed Signaling Links	670	5E16(2)	FR 1	GA
Assert Mnemonics on the ROP	671	5E16(2)	GA	GA
RC/V Security Logging and Verbose Enhancements	674	5E16(2)	GA	GA
FCCS (Forwarded Call - Call Screening) Announcement Modification	678	5E16(2)	GA	GA
High Capacity APT Enhancements	682	5E16(2)	FR1	GA
OIU SIP-T	684	5E16(2)	FR3	GA
IMLT Access Improvements and Metallic A-Link Blockage Notification	685	5E16(2)	FR1	GA
3B21D/RTR High Speed Performance Improvement	686	5E16(2)	FR1	SU 30013
TCP/IP via ASM for CIA	689	5E16(2)	FR2	GA
ASM Model 1 Support Extension	690	5E16(2)	FR2	-
ASM Model 1 Support Extension	691	5E16(2)	FR2	-
Rate and Route Translation Simplification - Exception Routing	694	5E16(2)	FR5	GA
Rate and Route Translation Simplification - Code Blocking	695	5E16(2)	FR5	GA
Rate and Route Translation Simplification - OPER/EMER Routing	696	5E16(2)	FR5	GA
CIC Routing Solution	697	5E17(1)	FR3	GA
Proprietary	698	5E16(2)	FR4	GA
Proprietary	699	5E16(2)	FR4	GA
IP Backhaul (depends upon SFID 221) (See division 2, Section 7CN)	762	5E19(1)	FR1	GA
RLU (Remote Line Unit) Secondary Control Facilities	764	5E16(2)	FR4	GA
SIP without Encapsulated ISUP	769	5E16(2)	FR6	GA
Enhanced 5E Traffic Measurement Interface	776	5E20(1)	GA	GA
Secured Feature Module Growth Update Automation	NA	5E5 5E6	SU 900085 GA	- GA

NONE = No Informational Software Update issued.

- = Software Release Feature. No Informational Software Update issued.

GA = Feature available in the General Availability Software Release.

NA = Feature no longer uses SFID or is not available for this Software Release.

* = When multiple software updates are listed for a single software release, all of the software updates for that software release must be installed for the feature to function.

FR = Feature is available with a feature release; e.g., FR2 indicates Feature Release 2.

Figure 1 SECURED FEATURE ID NUMBERS AND CORRESPONDING FEATURE NAMES

sfsys 5ESS Switch
 SCREEN 1 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

*1. MODULE OFC

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
1	1	—	9	9	—	17	17	—	25	25	—	33	33	—	41	41	—
2	2	—	10	10	—	18	18	—	26	26	—	34	34	—	42	42	—
3	3	—	11	11	—	19	19	—	27	27	—	35	35	—	43	43	—
4	4	—	12	12	—	20	20	—	28	28	—	36	36	—	44	44	—
5	5	—	13	13	—	21	21	—	29	29	—	37	37	—	45	45	—
6	6	—	14	14	—	22	22	—	30	30	—	38	38	—	46	46	—
7	7	—	15	15	—	23	23	—	31	31	—	39	39	—	47	47	—
8	8	—	16	16	—	24	24	—	32	32	—	40	40	—	48	48	—

sfsys 5ESS Switch
 SCREEN 2 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
49	49	—	57	57	—	65	65	—	73	73	—	81	81	—	89	89	—
50	50	—	58	58	—	66	66	—	74	74	—	82	82	—	90	90	—
51	51	—	59	59	—	67	67	—	75	75	—	83	83	—	91	91	—
52	52	—	60	60	—	68	68	—	76	76	—	84	84	—	92	92	—
53	53	—	61	61	—	69	69	—	77	77	—	85	85	—	93	93	—
54	54	—	62	62	—	70	70	—	78	78	—	86	86	—	94	94	—
55	55	—	63	63	—	71	71	—	79	79	—	87	87	—	95	95	—
56	56	—	64	64	—	72	72	—	80	80	—	88	88	—	96	96	—

sfsys 5ESS Switch
 SCREEN 3 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
97	97	—	105	105	—	113	113	—	121	121	—	129	129	—	137	137	—
98	98	—	106	106	—	114	114	—	122	122	—	130	130	—	138	138	—
99	99	—	107	107	—	115	115	—	123	123	—	131	131	—	139	139	—
100	100	—	108	108	—	116	116	—	124	124	—	132	132	—	140	140	—
101	101	—	109	109	—	117	117	—	125	125	—	133	133	—	141	141	—
102	102	—	110	110	—	118	118	—	126	126	—	134	134	—	142	142	—
103	103	—	111	111	—	119	119	—	127	127	—	135	135	—	143	143	—
104	104	—	112	112	—	120	120	—	128	128	—	136	136	—	144	144	—

sfsys 5ESS Switch
 SCREEN 4 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
145	145	—	153	153	—	161	161	—	169	169	—	177	177	—	185	185	—
146	146	—	154	154	—	162	162	—	170	170	—	178	178	—	186	186	—
147	147	—	155	155	—	163	163	—	171	171	—	179	179	—	187	187	—
148	148	—	156	156	—	164	164	—	172	172	—	180	180	—	188	188	—
149	149	—	157	157	—	165	165	—	173	173	—	181	181	—	189	189	—
150	150	—	158	158	—	166	166	—	174	174	—	182	182	—	190	190	—
151	151	—	159	159	—	167	167	—	175	175	—	183	183	—	191	191	—
152	152	—	160	160	—	168	168	—	176	176	—	184	184	—	192	192	—

sfsys 5ESS Switch
 SCREEN 5 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
193	193	—	201	201	—	209	209	—	217	217	—	225	225	—	233	233	—
194	194	—	202	202	—	210	210	—	218	218	—	226	226	—	234	234	—
195	195	—	203	203	—	211	211	—	219	219	—	227	227	—	235	235	—
196	196	—	204	204	—	212	212	—	220	220	—	228	228	—	236	236	—
197	197	—	205	205	—	213	213	—	221	221	—	229	229	—	237	237	—
198	198	—	206	206	—	214	214	—	222	222	—	230	230	—	238	238	—
199	199	—	207	207	—	215	215	—	223	223	—	231	231	—	239	239	—
200	200	—	208	208	—	216	216	—	224	224	—	232	232	—	240	240	—

sfsys 5ESS Switch
 SCREEN 6 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
241	241	—	249	249	—	257	257	—	265	265	—	273	273	—	281	281	—
242	242	—	250	250	—	258	258	—	266	266	—	274	274	—	282	282	—
243	243	—	251	251	—	259	259	—	267	267	—	275	275	—	283	283	—
244	244	—	252	252	—	260	260	—	268	268	—	276	276	—	284	284	—
245	245	—	253	253	—	261	261	—	269	269	—	277	277	—	285	285	—
246	246	—	254	254	—	262	262	—	270	270	—	278	278	—	286	286	—
247	247	—	255	255	—	263	263	—	271	271	—	279	279	—	287	287	—

248 248 _ 256 256 _ 264 264 _ 272 272 _ 280 280 _ 288 288 _

sfsys 5ESS Switch
 SCREEN 7 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
289	289	_	297	297	_	305	305	_	313	313	_	321	321	_	329	329	_
290	290	_	298	298	_	306	306	_	314	314	_	322	322	_	330	330	_
291	291	_	299	299	_	307	307	_	315	315	_	323	323	_	331	331	_
292	292	_	300	300	_	308	308	_	316	316	_	324	324	_	332	332	_
293	293	_	301	301	_	309	309	_	317	317	_	325	325	_	333	333	_
294	294	_	302	302	_	310	310	_	318	318	_	326	326	_	334	334	_
295	295	_	303	303	_	311	311	_	319	319	_	327	327	_	335	335	_
296	296	_	304	304	_	312	312	_	320	320	_	328	328	_	336	336	_

sfsys 5ESS Switch
 SCREEN 8 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
337	337	_	345	345	_	353	353	_	361	361	_	369	369	_	377	377	_
338	338	_	346	346	_	354	354	_	362	362	_	370	370	_	378	378	_
339	339	_	347	347	_	355	355	_	363	363	_	371	371	_	379	379	_
340	340	_	348	348	_	356	356	_	364	364	_	372	372	_	380	380	_
341	341	_	349	349	_	357	357	_	365	365	_	373	373	_	381	381	_
342	342	_	350	350	_	358	358	_	366	366	_	374	374	_	382	382	_
343	343	_	351	351	_	359	359	_	367	367	_	375	375	_	383	383	_
344	344	_	352	352	_	360	360	_	368	368	_	376	376	_	384	384	_

sfsys 5ESS Switch
 SCREEN 9 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
385	385	_	393	393	_	401	401	_	409	409	_	417	417	_	425	425	_
386	386	_	394	394	_	402	402	_	410	410	_	418	418	_	426	426	_
387	387	_	395	395	_	403	403	_	411	411	_	419	419	_	427	427	_
388	388	_	396	396	_	404	404	_	412	412	_	420	420	_	428	428	_
389	389	_	397	397	_	405	405	_	413	413	_	421	421	_	429	429	_
390	390	_	398	398	_	406	406	_	414	414	_	422	422	_	430	430	_

391	391	_	399	399	_	407	407	_	415	415	_	423	423	_	431	431	_
392	392	_	400	400	_	408	408	_	416	416	_	424	424	_	432	432	_

sfsys 5ESS Switch
 SCREEN 10 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
433	433	_	441	441	_	449	449	_	457	457	_	465	465	_	473	473	_
434	434	_	442	442	_	450	450	_	458	458	_	466	466	_	474	474	_
435	435	_	443	443	_	451	451	_	459	459	_	467	467	_	475	475	_
436	436	_	444	444	_	452	452	_	460	460	_	468	468	_	476	476	_
437	437	_	445	445	_	453	453	_	461	461	_	469	469	_	477	477	_
438	438	_	446	446	_	454	454	_	462	462	_	470	470	_	478	478	_
439	439	_	447	447	_	455	455	_	463	463	_	471	471	_	479	479	_
440	440	_	448	448	_	456	456	_	464	464	_	472	472	_	480	480	_

sfsys 5ESS Switch
 SCREEN 11 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
481	481	_	489	489	_	497	497	_	505	505	_	513	513	_	521	521	_
482	482	_	490	490	_	498	498	_	506	506	_	514	514	_	522	522	_
483	483	_	491	491	_	499	499	_	507	507	_	515	515	_	523	523	_
484	484	_	492	492	_	500	500	_	508	508	_	516	516	_	524	524	_
485	485	_	493	493	_	501	501	_	509	509	_	517	517	_	525	525	_
486	486	_	494	494	_	502	502	_	510	510	_	518	518	_	526	526	_
487	487	_	495	495	_	503	503	_	511	511	_	519	519	_	527	527	_
488	488	_	496	496	_	504	504	_	512	512	_	520	520	_	528	528	_

sfsys 5ESS Switch
 SCREEN 12 OF 21 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
529	529	_	537	537	_	545	545	_	553	553	_	561	561	_	569	569	_
530	530	_	538	538	_	546	546	_	554	554	_	562	562	_	570	570	_
531	531	_	539	539	_	547	547	_	555	555	_	563	563	_	571	571	_
532	532	_	540	540	_	548	548	_	556	556	_	564	564	_	572	572	_
533	533	_	541	541	_	549	549	_	557	557	_	565	565	_	573	573	_

534	534	—	542	542	—	550	550	—	558	558	—	566	566	—	574	574	—
535	535	—	543	543	—	551	551	—	559	559	—	567	567	—	575	575	—
536	536	—	544	544	—	552	552	—	560	560	—	568	568	—	576	576	—

sfsys
SCREEN 13 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
577	577	—	585	585	—	593	593	—	601	601	—	609	609	—	617	617	—
578	578	—	586	586	—	594	594	—	602	602	—	610	610	—	618	618	—
579	579	—	587	587	—	595	595	—	603	603	—	611	611	—	619	619	—
580	580	—	588	588	—	596	596	—	604	604	—	612	612	—	620	620	—
581	581	—	589	589	—	597	597	—	605	605	—	613	613	—	621	621	—
582	582	—	590	590	—	598	598	—	606	606	—	614	614	—	622	622	—
583	583	—	591	591	—	599	599	—	607	607	—	615	615	—	623	623	—
584	584	—	592	592	—	600	600	—	608	608	—	616	616	—	624	624	—

sfsys
SCREEN 14 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
625	625	—	633	633	—	641	641	—	649	649	—	657	657	—	665	665	—
626	626	—	634	634	—	642	642	—	650	650	—	658	658	—	666	666	—
627	627	—	635	635	—	643	643	—	651	651	—	659	659	—	667	667	—
628	628	—	636	636	—	644	644	—	652	652	—	660	660	—	668	668	—
629	629	—	637	637	—	645	645	—	653	653	—	661	661	—	669	669	—
630	630	—	638	638	—	646	646	—	654	654	—	662	662	—	670	670	—
631	631	—	639	639	—	647	647	—	655	655	—	663	663	—	671	671	—
632	632	—	640	640	—	648	648	—	656	656	—	664	664	—	672	672	—

sfsys
SCREEN 15 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
673	673	—	681	681	—	689	689	—	697	697	—	705	705	—	713	713	—
674	674	—	682	682	—	690	690	—	698	698	—	706	706	—	714	714	—
675	675	—	683	683	—	691	691	—	699	699	—	707	707	—	715	715	—
676	676	—	684	684	—	692	692	—	700	700	—	708	708	—	716	716	—

677	677	—	685	685	—	693	693	—	701	701	—	709	709	—	717	717	—
678	678	—	686	686	—	694	694	—	702	702	—	710	710	—	718	718	—
679	679	—	687	687	—	695	695	—	703	703	—	711	711	—	719	719	—
680	680	—	688	688	—	696	696	—	704	704	—	712	712	—	720	720	—

sfsys
SCREEN 16 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
721	721	—	729	729	—	737	737	—	745	745	—	753	753	—	761	761	—
722	722	—	730	730	—	738	738	—	746	746	—	754	754	—	762	762	—
723	723	—	731	731	—	739	739	—	747	747	—	755	755	—	763	763	—
724	724	—	732	732	—	740	740	—	748	748	—	756	756	—	764	764	—
725	725	—	733	733	—	741	741	—	749	749	—	757	757	—	765	765	—
726	726	—	734	734	—	742	742	—	750	750	—	758	758	—	766	766	—
727	727	—	735	735	—	743	743	—	751	751	—	759	759	—	767	767	—
728	728	—	736	736	—	744	744	—	752	752	—	760	760	—	768	768	—

sfsys
SCREEN 17 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
769	769	—	777	777	—	785	785	—	793	793	—	801	801	—	809	809	—
770	770	—	778	778	—	786	786	—	794	794	—	802	802	—	810	810	—
771	771	—	779	779	—	787	787	—	795	795	—	803	803	—	811	811	—
772	772	—	780	780	—	788	788	—	796	796	—	804	804	—	812	812	—
773	773	—	781	781	—	789	789	—	797	797	—	805	805	—	813	813	—
774	774	—	782	782	—	790	790	—	798	798	—	806	806	—	814	814	—
775	775	—	783	783	—	791	791	—	799	799	—	807	807	—	815	815	—
776	776	—	784	784	—	792	792	—	800	800	—	808	808	—	816	816	—

sfsys
SCREEN 18 OF 21
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
817	817	—	825	825	—	833	833	—	841	841	—	849	849	—	857	857	—
818	818	—	826	826	—	834	834	—	842	842	—	850	850	—	858	858	—
819	819	—	827	827	—	835	835	—	843	843	—	851	851	—	859	859	—

820	820	—	828	828	—	836	836	—	844	844	—	852	852	—	860	860	—
821	821	—	829	829	—	837	837	—	845	845	—	853	853	—	861	861	—
822	822	—	830	830	—	838	838	—	846	846	—	854	854	—	862	862	—
823	823	—	831	831	—	839	839	—	847	847	—	855	855	—	863	863	—
824	824	—	832	832	—	840	840	—	848	848	—	856	856	—	864	864	—

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sfsys                                5ESS Switch
SCREEN 19 OF 21                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
865	865	—	873	873	—	881	881	—	889	889	—	897	897	—	905	905	—
866	866	—	874	874	—	882	882	—	890	890	—	898	898	—	906	906	—
867	867	—	875	875	—	883	883	—	891	891	—	899	899	—	907	907	—
868	868	—	876	876	—	884	884	—	892	892	—	900	900	—	908	908	—
869	869	—	877	877	—	885	885	—	893	893	—	901	901	—	909	909	—
870	870	—	878	878	—	886	886	—	894	894	—	902	902	—	910	910	—
871	871	—	879	879	—	887	887	—	895	895	—	903	903	—	911	911	—
872	872	—	880	880	—	888	888	—	896	896	—	904	904	—	912	912	—

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sfsys                                5ESS Switch
SCREEN 20 OF 21                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
913	913	—	921	921	—	929	929	—	937	937	—	945	945	—	953	953	—
914	914	—	922	922	—	930	930	—	938	938	—	946	946	—	954	954	—
915	915	—	923	923	—	931	931	—	939	939	—	947	947	—	955	955	—
916	916	—	924	924	—	932	932	—	940	940	—	948	948	—	956	956	—
917	917	—	925	925	—	933	933	—	941	941	—	949	949	—	957	957	—
918	918	—	926	926	—	934	934	—	942	942	—	950	950	—	958	958	—
919	919	—	927	927	—	935	935	—	943	943	—	951	951	—	959	959	—
920	920	—	928	928	—	936	936	—	944	944	—	952	952	—	960	960	—

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sfsys                                5ESS Switch
SCREEN 21 OF 21                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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2. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
961	961	—	969	969	—	977	977	—	985	985	—	993	993	—
962	962	—	970	970	—	978	978	—	986	986	—	994	994	—

963	963	—	971	971	—	979	979	—	987	987	—	995	995	—
964	964	—	972	972	—	980	980	—	988	988	—	996	996	—
965	965	—	973	973	—	981	981	—	989	989	—			
966	966	—	974	974	—	982	982	—	990	990	—			
967	967	—	975	975	—	983	983	—	991	991	—			
968	968	—	976	976	—	984	984	—	992	992	—			

Figure 2 SAMPLE SFSYS FORM 5E13 THROUGH 5E17(1) SOFTWARE RELEASES

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sfsys                      5ESS Switch
SCREEN 1 OF 22             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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*1. MODULE      OFC
(*)2. FEATURE NAME _____

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                SPECIAL FEATURE FIELDS
3. FEATURE PASSWD _____
   NUM PURCHASED  _____
   NUM PROVISIONED _____

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sfsys                      5ESS Switch
SCREEN 2 OF 22             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
1	1	—	9	9	—	17	17	—	25	25	—	33	33	—	41	41	—
2	2	—	10	10	—	18	18	—	26	26	—	34	34	—	42	42	—
3	3	—	11	11	—	19	19	—	27	27	—	35	35	—	43	43	—
4	4	—	12	12	—	20	20	—	28	28	—	36	36	—	44	44	—
5	5	—	13	13	—	21	21	—	29	29	—	37	37	—	45	45	—
6	6	—	14	14	—	22	22	—	30	30	—	38	38	—	46	46	—
7	7	—	15	15	—	23	23	—	31	31	—	39	39	—	47	47	—
8	8	—	16	16	—	24	24	—	32	32	—	40	40	—	48	48	—

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sfsys                      5ESS Switch
SCREEN 3 OF 22             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
49	49	—	57	57	—	65	65	—	73	73	—	81	81	—	89	89	—

50	50	—	58	58	—	66	66	—	74	74	—	82	82	—	90	90	—
51	51	—	59	59	—	67	67	—	75	75	—	83	83	—	91	91	—
52	52	—	60	60	—	68	68	—	76	76	—	84	84	—	92	92	—
53	53	—	61	61	—	69	69	—	77	77	—	85	85	—	93	93	—
54	54	—	62	62	—	70	70	—	78	78	—	86	86	—	94	94	—
55	55	—	63	63	—	71	71	—	79	79	—	87	87	—	95	95	—
56	56	—	64	64	—	72	72	—	80	80	—	88	88	—	96	96	—

sfsys

5ESS Switch

SCREEN 4 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
97	97	—	105	105	—	113	113	—	121	121	—	129	129	—	137	137	—
98	98	—	106	106	—	114	114	—	122	122	—	130	130	—	138	138	—
99	99	—	107	107	—	115	115	—	123	123	—	131	131	—	139	139	—
100	100	—	108	108	—	116	116	—	124	124	—	132	132	—	140	140	—
101	101	—	109	109	—	117	117	—	125	125	—	133	133	—	141	141	—
102	102	—	110	110	—	118	118	—	126	126	—	134	134	—	142	142	—
103	103	—	111	111	—	119	119	—	127	127	—	135	135	—	143	143	—
104	104	—	112	112	—	120	120	—	128	128	—	136	136	—	144	144	—

sfsys

5ESS Switch

SCREEN 5 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
145	145	—	153	153	—	161	161	—	169	169	—	177	177	—	185	185	—
146	146	—	154	154	—	162	162	—	170	170	—	178	178	—	186	186	—
147	147	—	155	155	—	163	163	—	171	171	—	179	179	—	187	187	—
148	148	—	156	156	—	164	164	—	172	172	—	180	180	—	188	188	—
149	149	—	157	157	—	165	165	—	173	173	—	181	181	—	189	189	—
150	150	—	158	158	—	166	166	—	174	174	—	182	182	—	190	190	—
151	151	—	159	159	—	167	167	—	175	175	—	183	183	—	191	191	—
152	152	—	160	160	—	168	168	—	176	176	—	184	184	—	192	192	—

sfsys

5ESS Switch

SCREEN 6 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
193	193	—	201	201	—	209	209	—	217	217	—	225	225	—	233	233	—
194	194	—	202	202	—	210	210	—	218	218	—	226	226	—	234	234	—
195	195	—	203	203	—	211	211	—	219	219	—	227	227	—	235	235	—
196	196	—	204	204	—	212	212	—	220	220	—	228	228	—	236	236	—
197	197	—	205	205	—	213	213	—	221	221	—	229	229	—	237	237	—
198	198	—	206	206	—	214	214	—	222	222	—	230	230	—	238	238	—
199	199	—	207	207	—	215	215	—	223	223	—	231	231	—	239	239	—
200	200	—	208	208	—	216	216	—	224	224	—	232	232	—	240	240	—

sfsys

5ESS Switch

SCREEN 7 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
241	241	—	249	249	—	257	257	—	265	265	—	273	273	—	281	281	—
242	242	—	250	250	—	258	258	—	266	266	—	274	274	—	282	282	—
243	243	—	251	251	—	259	259	—	267	267	—	275	275	—	283	283	—
244	244	—	252	252	—	260	260	—	268	268	—	276	276	—	284	284	—
245	245	—	253	253	—	261	261	—	269	269	—	277	277	—	285	285	—
246	246	—	254	254	—	262	262	—	270	270	—	278	278	—	286	286	—
247	247	—	255	255	—	263	263	—	271	271	—	279	279	—	287	287	—
248	248	—	256	256	—	264	264	—	272	272	—	280	280	—	288	288	—

sfsys

5ESS Switch

SCREEN 8 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
289	289	—	297	297	—	305	305	—	313	313	—	321	321	—	329	329	—
290	290	—	298	298	—	306	306	—	314	314	—	322	322	—	330	330	—
291	291	—	299	299	—	307	307	—	315	315	—	323	323	—	331	331	—
292	292	—	300	300	—	308	308	—	316	316	—	324	324	—	332	332	—
293	293	—	301	301	—	309	309	—	317	317	—	325	325	—	333	333	—
294	294	—	302	302	—	310	310	—	318	318	—	326	326	—	334	334	—
295	295	—	303	303	—	311	311	—	319	319	—	327	327	—	335	335	—
296	296	—	304	304	—	312	312	—	320	320	—	328	328	—	336	336	—

sfsys

5ESS Switch

SCREEN 9 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
337	337	—	345	345	—	353	353	—	361	361	—	369	369	—	377	377	—
338	338	—	346	346	—	354	354	—	362	362	—	370	370	—	378	378	—
339	339	—	347	347	—	355	355	—	363	363	—	371	371	—	379	379	—
340	340	—	348	348	—	356	356	—	364	364	—	372	372	—	380	380	—
341	341	—	349	349	—	357	357	—	365	365	—	373	373	—	381	381	—
342	342	—	350	350	—	358	358	—	366	366	—	374	374	—	382	382	—
343	343	—	351	351	—	359	359	—	367	367	—	375	375	—	383	383	—
344	344	—	352	352	—	360	360	—	368	368	—	376	376	—	384	384	—

sfsys

5ESS Switch

SCREEN 10 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
385	385	—	393	393	—	401	401	—	409	409	—	417	417	—	425	425	—
386	386	—	394	394	—	402	402	—	410	410	—	418	418	—	426	426	—
387	387	—	395	395	—	403	403	—	411	411	—	419	419	—	427	427	—
388	388	—	396	396	—	404	404	—	412	412	—	420	420	—	428	428	—
389	389	—	397	397	—	405	405	—	413	413	—	421	421	—	429	429	—
390	390	—	398	398	—	406	406	—	414	414	—	422	422	—	430	430	—
391	391	—	399	399	—	407	407	—	415	415	—	423	423	—	431	431	—
392	392	—	400	400	—	408	408	—	416	416	—	424	424	—	432	432	—

sfsys

5ESS Switch

SCREEN 11 OF 22

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
433	433	—	441	441	—	449	449	—	457	457	—	465	465	—	473	473	—
434	434	—	442	442	—	450	450	—	458	458	—	466	466	—	474	474	—
435	435	—	443	443	—	451	451	—	459	459	—	467	467	—	475	475	—
436	436	—	444	444	—	452	452	—	460	460	—	468	468	—	476	476	—
437	437	—	445	445	—	453	453	—	461	461	—	469	469	—	477	477	—
438	438	—	446	446	—	454	454	—	462	462	—	470	470	—	478	478	—
439	439	—	447	447	—	455	455	—	463	463	—	471	471	—	479	479	—
440	440	—	448	448	—	456	456	—	464	464	—	472	472	—	480	480	—

sfsys

5ESS Switch

SCREEN 12 OF 22
(5713-1)

OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
481	481	—	489	489	—	497	497	—	505	505	—	513	513	—	521	521	—
482	482	—	490	490	—	498	498	—	506	506	—	514	514	—	522	522	—
483	483	—	491	491	—	499	499	—	507	507	—	515	515	—	523	523	—
484	484	—	492	492	—	500	500	—	508	508	—	516	516	—	524	524	—
485	485	—	493	493	—	501	501	—	509	509	—	517	517	—	525	525	—
486	486	—	494	494	—	502	502	—	510	510	—	518	518	—	526	526	—
487	487	—	495	495	—	503	503	—	511	511	—	519	519	—	527	527	—
488	488	—	496	496	—	504	504	—	512	512	—	520	520	—	528	528	—

sfsys

5ESS Switch

SCREEN 13 OF 22
(5713-1)

OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
529	529	—	537	537	—	545	545	—	553	553	—	561	561	—	569	569	—
530	530	—	538	538	—	546	546	—	554	554	—	562	562	—	570	570	—
531	531	—	539	539	—	547	547	—	555	555	—	563	563	—	571	571	—
532	532	—	540	540	—	548	548	—	556	556	—	564	564	—	572	572	—
533	533	—	541	541	—	549	549	—	557	557	—	565	565	—	573	573	—
534	534	—	542	542	—	550	550	—	558	558	—	566	566	—	574	574	—
535	535	—	543	543	—	551	551	—	559	559	—	567	567	—	575	575	—
536	536	—	544	544	—	552	552	—	560	560	—	568	568	—	576	576	—

sfsys

5ESS Switch

SCREEN 14 OF 22
(5713-1)

OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
577	577	—	585	585	—	593	593	—	601	601	—	609	609	—	617	617	—
578	578	—	586	586	—	594	594	—	602	602	—	610	610	—	618	618	—
579	579	—	587	587	—	595	595	—	603	603	—	611	611	—	619	619	—
580	580	—	588	588	—	596	596	—	604	604	—	612	612	—	620	620	—
581	581	—	589	589	—	597	597	—	605	605	—	613	613	—	621	621	—
582	582	—	590	590	—	598	598	—	606	606	—	614	614	—	622	622	—
583	583	—	591	591	—	599	599	—	607	607	—	615	615	—	623	623	—
584	584	—	592	592	—	600	600	—	608	608	—	616	616	—	624	624	—

sfsys
SCREEN 15 OF 22
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
625	625	—	633	633	—	641	641	—	649	649	—	657	657	—	665	665	—
626	626	—	634	634	—	642	642	—	650	650	—	658	658	—	666	666	—
627	627	—	635	635	—	643	643	—	651	651	—	659	659	—	667	667	—
628	628	—	636	636	—	644	644	—	652	652	—	660	660	—	668	668	—
629	629	—	637	637	—	645	645	—	653	653	—	661	661	—	669	669	—
630	630	—	638	638	—	646	646	—	654	654	—	662	662	—	670	670	—
631	631	—	639	639	—	647	647	—	655	655	—	663	663	—	671	671	—
632	632	—	640	640	—	648	648	—	656	656	—	664	664	—	672	672	—

sfsys
SCREEN 16 OF 22
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
673	673	—	681	681	—	689	689	—	697	697	—	705	705	—	713	713	—
674	674	—	682	682	—	690	690	—	698	698	—	706	706	—	714	714	—
675	675	—	683	683	—	691	691	—	699	699	—	707	707	—	715	715	—
676	676	—	684	684	—	692	692	—	700	700	—	708	708	—	716	716	—
677	677	—	685	685	—	693	693	—	701	701	—	709	709	—	717	717	—
678	678	—	686	686	—	694	694	—	702	702	—	710	710	—	718	718	—
679	679	—	687	687	—	695	695	—	703	703	—	711	711	—	719	719	—
680	680	—	688	688	—	696	696	—	704	704	—	712	712	—	720	720	—

sfsys
SCREEN 17 OF 22
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
721	721	—	729	729	—	737	737	—	745	745	—	753	753	—	761	761	—
722	722	—	730	730	—	738	738	—	746	746	—	754	754	—	762	762	—
723	723	—	731	731	—	739	739	—	747	747	—	755	755	—	763	763	—
724	724	—	732	732	—	740	740	—	748	748	—	756	756	—	764	764	—
725	725	—	733	733	—	741	741	—	749	749	—	757	757	—	765	765	—
726	726	—	734	734	—	742	742	—	750	750	—	758	758	—	766	766	—
727	727	—	735	735	—	743	743	—	751	751	—	759	759	—	767	767	—
728	728	—	736	736	—	744	744	—	752	752	—	760	760	—	768	768	—

sfsys

SCREEN 18 OF 22

(5713-1)

5ESS Switch

OFFICE DATA ADMINISTRATION

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
769	769	—	777	777	—	785	785	—	793	793	—	801	801	—	809	809	—
770	770	—	778	778	—	786	786	—	794	794	—	802	802	—	810	810	—
771	771	—	779	779	—	787	787	—	795	795	—	803	803	—	811	811	—
772	772	—	780	780	—	788	788	—	796	796	—	804	804	—	812	812	—
773	773	—	781	781	—	789	789	—	797	797	—	805	805	—	813	813	—
774	774	—	782	782	—	790	790	—	798	798	—	806	806	—	814	814	—
775	775	—	783	783	—	791	791	—	799	799	—	807	807	—	815	815	—
776	776	—	784	784	—	792	792	—	800	800	—	808	808	—	816	816	—

sfsys

SCREEN 19 OF 22

(5713-1)

5ESS Switch

OFFICE DATA ADMINISTRATION

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
817	817	—	825	825	—	833	833	—	841	841	—	849	849	—	857	857	—
818	818	—	826	826	—	834	834	—	842	842	—	850	850	—	858	858	—
819	819	—	827	827	—	835	835	—	843	843	—	851	851	—	859	859	—
820	820	—	828	828	—	836	836	—	844	844	—	852	852	—	860	860	—
821	821	—	829	829	—	837	837	—	845	845	—	853	853	—	861	861	—
822	822	—	830	830	—	838	838	—	846	846	—	854	854	—	862	862	—
823	823	—	831	831	—	839	839	—	847	847	—	855	855	—	863	863	—
824	824	—	832	832	—	840	840	—	848	848	—	856	856	—	864	864	—

sfsys

SCREEN 20 OF 22

(5713-1)

5ESS Switch

OFFICE DATA ADMINISTRATION

SECURED FEATURE UPGRADE

6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
865	865	—	873	873	—	881	881	—	889	889	—	897	897	—	905	905	—
866	866	—	874	874	—	882	882	—	890	890	—	898	898	—	906	906	—
867	867	—	875	875	—	883	883	—	891	891	—	899	899	—	907	907	—
868	868	—	876	876	—	884	884	—	892	892	—	900	900	—	908	908	—
869	869	—	877	877	—	885	885	—	893	893	—	901	901	—	909	909	—
870	870	—	878	878	—	886	886	—	894	894	—	902	902	—	910	910	—
871	871	—	879	879	—	887	887	—	895	895	—	903	903	—	911	911	—
872	872	—	880	880	—	888	888	—	896	896	—	904	904	—	912	912	—

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sfsys                      5ESS Switch
SCREEN 21 OF 22             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
913	913	—	921	921	—	929	929	—	937	937	—	945	945	—	953	953	—
914	914	—	922	922	—	930	930	—	938	938	—	946	946	—	954	954	—
915	915	—	923	923	—	931	931	—	939	939	—	947	947	—	955	955	—
916	916	—	924	924	—	932	932	—	940	940	—	948	948	—	956	956	—
917	917	—	925	925	—	933	933	—	941	941	—	949	949	—	957	957	—
918	918	—	926	926	—	934	934	—	942	942	—	950	950	—	958	958	—
919	919	—	927	927	—	935	935	—	943	943	—	951	951	—	959	959	—
920	920	—	928	928	—	936	936	—	944	944	—	952	952	—	960	960	—

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sfsys                      5ESS Switch
SCREEN 22 OF 22             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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6. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
961	961	—	969	969	—	977	977	—	985	985	—	993	993	—
962	962	—	970	970	—	978	978	—	986	986	—	994	994	—
963	963	—	971	971	—	979	979	—	987	987	—	995	995	—
964	964	—	972	972	—	980	980	—	988	988	—	996	996	—
965	965	—	973	973	—	981	981	—	989	989	—			
966	966	—	974	974	—	982	982	—	990	990	—			
967	967	—	975	975	—	983	983	—	991	991	—			
968	968	—	976	976	—	984	984	—	992	992	—			

Figure 3 SAMPLE SFSYS FORM 5E18(1) THROUGH 5E19(1) SOFTWARE RELEASES

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sfsys                      5ESS Switch
SCREEN 1 OF 23             OFFICE DATA ADMINISTRATION
(5713-1)                   SECURED FEATURE UPGRADE

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*1. MODULE      OFC
(*)2. RESOURCE NAME _____
   FEATURE NAME  _____
      SPECIAL FEATURE FIELDS
4. RESOURCE PASSWD _____
   NUM PROVISIONED _____

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sfsys
SCREEN 2 OF 23
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

6. RESOURCE HISTORY INFORMATION (RESHIS)

ROW	DATE	TIME	NUM PURCHASED	MAX LIMIT	ROW	DATE	TIME	NUM PURCHASED	MAX LIMIT
1					9				
2					10				
3					11				
4					12				
5					13				
6					14				
7					15				
8					16				

sfsys
SCREEN 3 OF 23
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
1	1	—	9	9	—	17	17	—	25	25	—	33	33	—	41	41	—
2	2	—	10	10	—	18	18	—	26	26	—	34	34	—	42	42	—
3	3	—	11	11	—	19	19	—	27	27	—	35	35	—	43	43	—
4	4	—	12	12	—	20	20	—	28	28	—	36	36	—	44	44	—
5	5	—	13	13	—	21	21	—	29	29	—	37	37	—	45	45	—
6	6	—	14	14	—	22	22	—	30	30	—	38	38	—	46	46	—
7	7	—	15	15	—	23	23	—	31	31	—	39	39	—	47	47	—
8	8	—	16	16	—	24	24	—	32	32	—	40	40	—	48	48	—

sfsys
SCREEN 4 OF 23
(5713-1)

5ESS Switch
OFFICE DATA ADMINISTRATION
SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
49	49	—	57	57	—	65	65	—	73	73	—	81	81	—	89	89	—
50	50	—	58	58	—	66	66	—	74	74	—	82	82	—	90	90	—
51	51	—	59	59	—	67	67	—	75	75	—	83	83	—	91	91	—
52	52	—	60	60	—	68	68	—	76	76	—	84	84	—	92	92	—
53	53	—	61	61	—	69	69	—	77	77	—	85	85	—	93	93	—
54	54	—	62	62	—	70	70	—	78	78	—	86	86	—	94	94	—
55	55	—	63	63	—	71	71	—	79	79	—	87	87	—	95	95	—

56 56 _ 64 64 _ 72 72 _ 80 80 _ 88 88 _ 96 96 _

sfsys 5ESS Switch
 SCREEN 5 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
97	97	_	105	105	_	113	113	_	121	121	_	129	129	_	137	137	_
98	98	_	106	106	_	114	114	_	122	122	_	130	130	_	138	138	_
99	99	_	107	107	_	115	115	_	123	123	_	131	131	_	139	139	_
100	100	_	108	108	_	116	116	_	124	124	_	132	132	_	140	140	_
101	101	_	109	109	_	117	117	_	125	125	_	133	133	_	141	141	_
102	102	_	110	110	_	118	118	_	126	126	_	134	134	_	142	142	_
103	103	_	111	111	_	119	119	_	127	127	_	135	135	_	143	143	_
104	104	_	112	112	_	120	120	_	128	128	_	136	136	_	144	144	_

sfsys 5ESS Switch
 SCREEN 6 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
145	145	_	153	153	_	161	161	_	169	169	_	177	177	_	185	185	_
146	146	_	154	154	_	162	162	_	170	170	_	178	178	_	186	186	_
147	147	_	155	155	_	163	163	_	171	171	_	179	179	_	187	187	_
148	148	_	156	156	_	164	164	_	172	172	_	180	180	_	188	188	_
149	149	_	157	157	_	165	165	_	173	173	_	181	181	_	189	189	_
150	150	_	158	158	_	166	166	_	174	174	_	182	182	_	190	190	_
151	151	_	159	159	_	167	167	_	175	175	_	183	183	_	191	191	_
152	152	_	160	160	_	168	168	_	176	176	_	184	184	_	192	192	_

sfsys 5ESS Switch
 SCREEN 7 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
193	193	_	201	201	_	209	209	_	217	217	_	225	225	_	233	233	_
194	194	_	202	202	_	210	210	_	218	218	_	226	226	_	234	234	_
195	195	_	203	203	_	211	211	_	219	219	_	227	227	_	235	235	_

196	196	—	204	204	—	212	212	—	220	220	—	228	228	—	236	236	—
197	197	—	205	205	—	213	213	—	221	221	—	229	229	—	237	237	—
198	198	—	206	206	—	214	214	—	222	222	—	230	230	—	238	238	—
199	199	—	207	207	—	215	215	—	223	223	—	231	231	—	239	239	—
200	200	—	208	208	—	216	216	—	224	224	—	232	232	—	240	240	—

sfsys

5ESS Switch

SCREEN 8 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
241	241	—	249	249	—	257	257	—	265	265	—	273	273	—	281	281	—
242	242	—	250	250	—	258	258	—	266	266	—	274	274	—	282	282	—
243	243	—	251	251	—	259	259	—	267	267	—	275	275	—	283	283	—
244	244	—	252	252	—	260	260	—	268	268	—	276	276	—	284	284	—
245	245	—	253	253	—	261	261	—	269	269	—	277	277	—	285	285	—
246	246	—	254	254	—	262	262	—	270	270	—	278	278	—	286	286	—
247	247	—	255	255	—	263	263	—	271	271	—	279	279	—	287	287	—
248	248	—	256	256	—	264	264	—	272	272	—	280	280	—	288	288	—

sfsys

5ESS Switch

SCREEN 9 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
289	289	—	297	297	—	305	305	—	313	313	—	321	321	—	329	329	—
290	290	—	298	298	—	306	306	—	314	314	—	322	322	—	330	330	—
291	291	—	299	299	—	307	307	—	315	315	—	323	323	—	331	331	—
292	292	—	300	300	—	308	308	—	316	316	—	324	324	—	332	332	—
293	293	—	301	301	—	309	309	—	317	317	—	325	325	—	333	333	—
294	294	—	302	302	—	310	310	—	318	318	—	326	326	—	334	334	—
295	295	—	303	303	—	311	311	—	319	319	—	327	327	—	335	335	—
296	296	—	304	304	—	312	312	—	320	320	—	328	328	—	336	336	—

sfsys

5ESS Switch

SCREEN 10 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
337	337	—	345	345	—	353	353	—	361	361	—	369	369	—	377	377	—
338	338	—	346	346	—	354	354	—	362	362	—	370	370	—	378	378	—
339	339	—	347	347	—	355	355	—	363	363	—	371	371	—	379	379	—
340	340	—	348	348	—	356	356	—	364	364	—	372	372	—	380	380	—
341	341	—	349	349	—	357	357	—	365	365	—	373	373	—	381	381	—
342	342	—	350	350	—	358	358	—	366	366	—	374	374	—	382	382	—
343	343	—	351	351	—	359	359	—	367	367	—	375	375	—	383	383	—
344	344	—	352	352	—	360	360	—	368	368	—	376	376	—	384	384	—

sfsys

5ESS Switch

SCREEN 11 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
385	385	—	393	393	—	401	401	—	409	409	—	417	417	—	425	425	—
386	386	—	394	394	—	402	402	—	410	410	—	418	418	—	426	426	—
387	387	—	395	395	—	403	403	—	411	411	—	419	419	—	427	427	—
388	388	—	396	396	—	404	404	—	412	412	—	420	420	—	428	428	—
389	389	—	397	397	—	405	405	—	413	413	—	421	421	—	429	429	—
390	390	—	398	398	—	406	406	—	414	414	—	422	422	—	430	430	—
391	391	—	399	399	—	407	407	—	415	415	—	423	423	—	431	431	—
392	392	—	400	400	—	408	408	—	416	416	—	424	424	—	432	432	—

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5ESS Switch

SCREEN 12 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
433	433	—	441	441	—	449	449	—	457	457	—	465	465	—	473	473	—
434	434	—	442	442	—	450	450	—	458	458	—	466	466	—	474	474	—
435	435	—	443	443	—	451	451	—	459	459	—	467	467	—	475	475	—
436	436	—	444	444	—	452	452	—	460	460	—	468	468	—	476	476	—
437	437	—	445	445	—	453	453	—	461	461	—	469	469	—	477	477	—
438	438	—	446	446	—	454	454	—	462	462	—	470	470	—	478	478	—
439	439	—	447	447	—	455	455	—	463	463	—	471	471	—	479	479	—
440	440	—	448	448	—	456	456	—	464	464	—	472	472	—	480	480	—

sfsys

5ESS Switch

SCREEN 13 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
481	481	—	489	489	—	497	497	—	505	505	—	513	513	—	521	521	—
482	482	—	490	490	—	498	498	—	506	506	—	514	514	—	522	522	—
483	483	—	491	491	—	499	499	—	507	507	—	515	515	—	523	523	—
484	484	—	492	492	—	500	500	—	508	508	—	516	516	—	524	524	—
485	485	—	493	493	—	501	501	—	509	509	—	517	517	—	525	525	—
486	486	—	494	494	—	502	502	—	510	510	—	518	518	—	526	526	—
487	487	—	495	495	—	503	503	—	511	511	—	519	519	—	527	527	—
488	488	—	496	496	—	504	504	—	512	512	—	520	520	—	528	528	—

sfsys

5ESS Switch

SCREEN 14 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
529	529	—	537	537	—	545	545	—	553	553	—	561	561	—	569	569	—
530	530	—	538	538	—	546	546	—	554	554	—	562	562	—	570	570	—
531	531	—	539	539	—	547	547	—	555	555	—	563	563	—	571	571	—
532	532	—	540	540	—	548	548	—	556	556	—	564	564	—	572	572	—
533	533	—	541	541	—	549	549	—	557	557	—	565	565	—	573	573	—
534	534	—	542	542	—	550	550	—	558	558	—	566	566	—	574	574	—
535	535	—	543	543	—	551	551	—	559	559	—	567	567	—	575	575	—
536	536	—	544	544	—	552	552	—	560	560	—	568	568	—	576	576	—

sfsys

5ESS Switch

SCREEN 15 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
577	577	—	585	585	—	593	593	—	601	601	—	609	609	—	617	617	—
578	578	—	586	586	—	594	594	—	602	602	—	610	610	—	618	618	—
579	579	—	587	587	—	595	595	—	603	603	—	611	611	—	619	619	—
580	580	—	588	588	—	596	596	—	604	604	—	612	612	—	620	620	—
581	581	—	589	589	—	597	597	—	605	605	—	613	613	—	621	621	—
582	582	—	590	590	—	598	598	—	606	606	—	614	614	—	622	622	—
583	583	—	591	591	—	599	599	—	607	607	—	615	615	—	623	623	—
584	584	—	592	592	—	600	600	—	608	608	—	616	616	—	624	624	—

sfsys 5ESS Switch
 SCREEN 16 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
625	625	—	633	633	—	641	641	—	649	649	—	657	657	—	665	665	—
626	626	—	634	634	—	642	642	—	650	650	—	658	658	—	666	666	—
627	627	—	635	635	—	643	643	—	651	651	—	659	659	—	667	667	—
628	628	—	636	636	—	644	644	—	652	652	—	660	660	—	668	668	—
629	629	—	637	637	—	645	645	—	653	653	—	661	661	—	669	669	—
630	630	—	638	638	—	646	646	—	654	654	—	662	662	—	670	670	—
631	631	—	639	639	—	647	647	—	655	655	—	663	663	—	671	671	—
632	632	—	640	640	—	648	648	—	656	656	—	664	664	—	672	672	—

sfsys 5ESS Switch
 SCREEN 17 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
673	673	—	681	681	—	689	689	—	697	697	—	705	705	—	713	713	—
674	674	—	682	682	—	690	690	—	698	698	—	706	706	—	714	714	—
675	675	—	683	683	—	691	691	—	699	699	—	707	707	—	715	715	—
676	676	—	684	684	—	692	692	—	700	700	—	708	708	—	716	716	—
677	677	—	685	685	—	693	693	—	701	701	—	709	709	—	717	717	—
678	678	—	686	686	—	694	694	—	702	702	—	710	710	—	718	718	—
679	679	—	687	687	—	695	695	—	703	703	—	711	711	—	719	719	—
680	680	—	688	688	—	696	696	—	704	704	—	712	712	—	720	720	—

sfsys 5ESS Switch
 SCREEN 18 OF 23 OFFICE DATA ADMINISTRATION
 (5713-1) SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
721	721	—	729	729	—	737	737	—	745	745	—	753	753	—	761	761	—
722	722	—	730	730	—	738	738	—	746	746	—	754	754	—	762	762	—
723	723	—	731	731	—	739	739	—	747	747	—	755	755	—	763	763	—
724	724	—	732	732	—	740	740	—	748	748	—	756	756	—	764	764	—
725	725	—	733	733	—	741	741	—	749	749	—	757	757	—	765	765	—

726	726	—	734	734	—	742	742	—	750	750	—	758	758	—	766	766	—
727	727	—	735	735	—	743	743	—	751	751	—	759	759	—	767	767	—
728	728	—	736	736	—	744	744	—	752	752	—	760	760	—	768	768	—

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sfsys                                5ESS Switch
SCREEN 19 OF 23                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
769	769	—	777	777	—	785	785	—	793	793	—	801	801	—	809	809	—
770	770	—	778	778	—	786	786	—	794	794	—	802	802	—	810	810	—
771	771	—	779	779	—	787	787	—	795	795	—	803	803	—	811	811	—
772	772	—	780	780	—	788	788	—	796	796	—	804	804	—	812	812	—
773	773	—	781	781	—	789	789	—	797	797	—	805	805	—	813	813	—
774	774	—	782	782	—	790	790	—	798	798	—	806	806	—	814	814	—
775	775	—	783	783	—	791	791	—	799	799	—	807	807	—	815	815	—
776	776	—	784	784	—	792	792	—	800	800	—	808	808	—	816	816	—

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sfsys                                5ESS Switch
SCREEN 20 OF 23                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
817	817	—	825	825	—	833	833	—	841	841	—	849	849	—	857	857	—
818	818	—	826	826	—	834	834	—	842	842	—	850	850	—	858	858	—
819	819	—	827	827	—	835	835	—	843	843	—	851	851	—	859	859	—
820	820	—	828	828	—	836	836	—	844	844	—	852	852	—	860	860	—
821	821	—	829	829	—	837	837	—	845	845	—	853	853	—	861	861	—
822	822	—	830	830	—	838	838	—	846	846	—	854	854	—	862	862	—
823	823	—	831	831	—	839	839	—	847	847	—	855	855	—	863	863	—
824	824	—	832	832	—	840	840	—	848	848	—	856	856	—	864	864	—

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sfsys                                5ESS Switch
SCREEN 21 OF 23                      OFFICE DATA ADMINISTRATION
(5713-1)                            SECURED FEATURE UPGRADE

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17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT

865	865	—	873	873	—	881	881	—	889	889	—	897	897	—	905	905	—
866	866	—	874	874	—	882	882	—	890	890	—	898	898	—	906	906	—
867	867	—	875	875	—	883	883	—	891	891	—	899	899	—	907	907	—
868	868	—	876	876	—	884	884	—	892	892	—	900	900	—	908	908	—
869	869	—	877	877	—	885	885	—	893	893	—	901	901	—	909	909	—
870	870	—	878	878	—	886	886	—	894	894	—	902	902	—	910	910	—
871	871	—	879	879	—	887	887	—	895	895	—	903	903	—	911	911	—
872	872	—	880	880	—	888	888	—	896	896	—	904	904	—	912	912	—

sfsys

5ESS Switch

SCREEN 22 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
913	913	—	921	921	—	929	929	—	937	937	—	945	945	—	953	953	—
914	914	—	922	922	—	930	930	—	938	938	—	946	946	—	954	954	—
915	915	—	923	923	—	931	931	—	939	939	—	947	947	—	955	955	—
916	916	—	924	924	—	932	932	—	940	940	—	948	948	—	956	956	—
917	917	—	925	925	—	933	933	—	941	941	—	949	949	—	957	957	—
918	918	—	926	926	—	934	934	—	942	942	—	950	950	—	958	958	—
919	919	—	927	927	—	935	935	—	943	943	—	951	951	—	959	959	—
920	920	—	928	928	—	936	936	—	944	944	—	952	952	—	960	960	—

sfsys

5ESS Switch

SCREEN 23 OF 23

OFFICE DATA ADMINISTRATION

(5713-1)

SECURED FEATURE UPGRADE

17. SECURED FEATURE ID LIST (SFLIST)

ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT	ROW	SFID	ACT
961	961	—	969	969	—	977	977	—	985	985	—	993	993	—
962	962	—	970	970	—	978	978	—	986	986	—	994	994	—
963	963	—	971	971	—	979	979	—	987	987	—	995	995	—
964	964	—	972	972	—	980	980	—	988	988	—	996	996	—
965	965	—	973	973	—	981	981	—	989	989	—			
966	966	—	974	974	—	982	982	—	990	990	—			
967	967	—	975	975	—	983	983	—	991	991	—			
968	968	—	976	976	—	984	984	—	992	992	—			

Figure 4 SAMPLE SFSYS FORM 5E20(1) AND LATER SOFTWARE RELEASES

SEC. 5AS: 5713-2 RECORD SPECIAL AND TRANSPARENCY FEATURE OPTIONING SYSTEM FORM - FOSYS

1. GENERAL

For 5E5 through 5E8 Software Releases, the FOSYS (Feature Optioning SYStem) form is used to administer TFOS (Transparency Feature Optioning System) bits for Special and Transparency Features. For 5E9(1) and later, these TFOS IDs (Transparency Feature IDs) are called OFS IDs (Optioned Feature System IDs). Transparency Features have been developed to replicate features that exist on the 1A ESS Switch.

- **NOTE:** The use of OFS IDs is not limited to Transparency Features, and not all Transparency Features use OFS IDs.

OFS IDs can be administered on a per-SM basis. If an FOSYS form exists with MODULE set to an SM number, then that form sets the OFS IDs on that SM. If there is no FOSYS form for a particular SM and an FOSYS form with MODULE set to "OFC" exists, then those settings are used. Therefore, the FOSYS form with MODULE set to "OFC" acts as a default for all SMs without an SM-specific form.

1.1 Initializing OFS Parameters In Newly Grown SMs

For 5E6 and later, this capability provides for the initialization of OFS parameters to either be activated or deactivated during SM growth. Prior to this capability, when a new SM was added to an office, all OFS feature activation status was set by default to be deactivated. This capability allows OFS feature activation status in the new SM to be activated at growth time.

OFS feature parameters are dependent on the state of existing OFS parameters, and features will be activated in the new SM based on the following rules:

Feature Activation During SM Growth	
Existing State	Newly Grown SM State
On in all SMs.	On
On in some SMs.	Off
Off in all SMs.	Off

This capability keeps a record in the CMP of the status (either active or inactive) of each SM's optioned features. These settings, called "normal" or "growth" settings, reflect how OFS IDs are set across the office and will be used to initialize OFS IDs in newly grown SMs. For 5E6 and later, when MODULE is "CMP", then the FID (Feature ID) settings have the following meaning:

Valid FEATURE ID Entries For MODULE set to "CMP"	
Entry	Definition
Y	Software Release: 5E9(1) and later. Yes. The OFS ID is active in all SMs.
P	Software Release: 5E6 and later. Partially set/active. The OFS ID is set/active in some but not all SMs.
N or Blank	Software Release: 5E9(1) and later. Not active. The OFS ID is not active in any SMs.

These settings are used to initialize OFS IDs in newly grown SMs. When the FID is "P", "N", or blank, the FID on the new SM will be "N" or blank. When a CMP form exists, it must be consistent with other FOSYS form data. When a CMP form does not exist, it will be automatically created during mapping and during the printing of office records.

2. ON-LINE INFORMATIONAL SOFTWARE UPDATES

Informational Software Updates, which are available on SCANS (Software Change Administration And Notification System), provide information on features which are released during a Software Update. In addition to being transmitted to users via SCANS, these Informational Software Updates can also be accessed in the 5ESS Switch electronic media documentation. The Informational Software Updates are located on the menu for 5ESS Switch documentation on-line or on CD-ROM.

2.1 Recent Change View

For 5E9(1) and later, the corresponding Recent Change View for FOSYS is 8.31.

3. FORM AND RECORD ENTRIES

3.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the Office Name on each record.

3.2 * MODULE

Description: Enter the SM number which will receive its own OFS ID settings. Enter "OFC" to set OFS IDs in all SMs that do not have their own FOSYS form (i.e., all SMs not having their own OFS ID settings will receive the same OFS ID settings). The value of "OFC" is not available after a retrofit because "OFC" will be represented by each SM value. After a retrofit, only the values of 1 - 192 and "CMP" can be referenced directly.

Required Field.

Valid MODULE Entries	
Entry	Definition
1 - 192	Set OFS IDs for this SM.
CMP	Use these OFS IDs to initialize OFS IDs in newly grown SMs.
OFC	Set OFS IDs in all SMs that do not have their own FOSYS form.

TRANSPARENCY FEATURE ID LIST

This list of OFS IDs is generally used to enable or option Special and Transparency Features. To enable or option a feature, select the FID that corresponds to the desired OFS ID and enter "Y" in the ACT field. To disable an OFS ID, enter "N" or blank. Figure 1 shows the corresponding number for each Special or Transparency Feature.

3.3 ACT

Description: This is the OFS ID number.

For 5E9(1) and later, FID refers to the OFS ID number only, and ACT is the input field. This indicates that the feature corresponding to that OFS ID is enabled. When MODULE is "CMP", enter "P" to indicate that the feature corresponding to that OFS ID is enabled in some but not all SMs. To disable a OFS ID, enter "N" or blank.

Valid Entries:

Valid ACT Entries	
Entry	Definition
Y	Software Release: 5E9(1) and later. Enable feature for this OFS ID.
Blank	Software Release: 5E5 and later.

	Disable feature for this OFS ID.
N	Software Release: 5E9(1) and later.
	Disable feature for this OFS ID.
P	The feature is enabled for this OFS ID in some but not all SMs.

Data Rules:

While FIDs can normally be altered on a per SM basis, there are certain FIDs that must be consistent on an office basis. The FIDs which must be consistent on all FOSYS forms are:

For 5E5: None

For 5E6: 539, 541, 546, 547, 548, 550, 553, 557

For 5E7: 541, 546, 547, 548, 550, 553, 557

For 5E8: 541, 550, 553, 557

For 5E9(1): 541, 550, 553, 557 692 - 755

When FID is "P", then MODULE must be "CMP".

For 5E6 and later, if all the SMs have a particular FID set to "Y", then on the "CMP" FOSYS form the FID should also be set to "Y". If all the SMs have a particular FID set to blank or "N", then on the "CMP" FOSYS form that FID should also be blank or "N". If the SMs have mixed values of "Y, blank or "N" for a particular FID, then on the "CMP" FOSYS form that FID should be set to "P".

FEATURE NAME	OFS ID	SOFTWARE RELEASE	SOFTWARE UPDATE / FEATURE RELEASE	INFO SOFTWARE UPDATE / FEATURE RELEASE
3-Way Reconnect Procedures (TF) No Data Impact	500	5E4(2) 5E5	SU 890073 GA	SU 890059 GA
Multi-Way 3-Way Conference/Call Transfer B911 Interactions (TF) No Data Impact	501	5E5 5E6	SU 900125 GA	SU 900097 GA
Directed Call Pickup with Barge-In Assignment (TF) No Data Impact	502	5E5 5E6	SU 900012 GA	SU 890050 GA
Shared DN Display with No Ringing Option (TF) No Data Impact	503	5E4(2) 5E5 5E6	SU 890108 SU 890035 GA	- - GA
Limited Intragroup ICLID (SpF) No Data Impact	504	5E4(2) 5E5 5E6	SU 890134 SU 890060 GA	SU 890126 SU 890053 GA
Entry of Forwarded-To-DN/IDP (TF)	505	5E4(2) 5E5 Not 5E6	SU 900067 SU 900096 NA	SU 900055 SU 900086 NA
Non-Alerting ISDN Shared Terminal Display Option (TF) No Data Impact	506	5E4(2) 5E5 5E6 Not 5E7	SU 900010 SU 900009 GA NA	- - GA NA
Separate Call Waiting from MW Ringback Parameter (TF) No Data Impact	507	5E4(2) 5E5 5E6	SU 900037 SU 900064 GA	SU 900028 SU 900051 GA
Increase Number of Simultaneous Calls Forwarded to DID Groups (TF) No Data Impact	508	5E4(2) 5E5 5E6	SU 900041 SU 900028 GA	- - GA
Fix for PFA, ARS, and VPATH (TF)	509	5E4(2)	SU 900024	-

No Data Impact		5E5	SU 900027	-
		5E6	GA	GA
Hotel Motel Mini Feature (TF)	510	5E5	SU 900065	-
No Data Impact		5E6	GA	GA
FTS2000 Office Indicator for Private MDR Record Fix (TF)	511	5E5	SU 900068	-
No Data Impact		Not 5E6	NA	NA
Authorization Code Interaction with Multiway Fix (TF)	512	5E4(2)	SU 910017	-
No Data Impact		5E5	SU 900076	-
		5E6	SU 900047	-
		Not 5E7	NA	NA
Restrict Initial Flash and Call Waiting Before Answer (TF)	513	5E4(2)	SU 910019	SU 910013
No Data Impact	514	5E5	SU 910045	SU 910028
		5E6	SU 910004	SU 910002
		5E7	GA	GA
Calling Party Disconnect Indication (SpF)	515	5E4(2)	SU 910027	SU 910023
No Data Impact		5E5	SU 910064	SU 910063
		5E6	SU 910077	SU 910061
		5E7	GA	GA
Transfer of Unsupervised Lines Fix (TF)	516	5E4(2)	SU 900066	-
No Data Impact		5E5	SU 900108	-
		5E6	SU 910006	-
		5E7	GA	GA
Modified Calling Line Disconnect (SpF)	517	5E5	SU 910049	SU 910029
		5E6	SU 910052	SU 910044
		5E7	GA	GA
		5E8	GA	GA
Call Transfer to Busy - Return Busy to Originator (TF)	518	5E5	SU 910045	SU 910041
No Data Impact		5E6	SU 910064	SU 910059
		5E7	GA	GA
Fix for Optioning Errors During NPA Splits (TF)	520	5E5	SU 900116	-
No Data Impact		5E6	SU 900055	-
		5E7	GA	GA
Fix to Decrease SC (Series Completion) and MLHGs Post Dial Delay (TF)	521	5E5	SU 910030	SU 910019
No Data Impact		5E6	SU 910032	SU 910026
		5E7	GA	GA
Bridging Indication to Analog Shared DN Lines (TF)	522	5E5	SU 910055	-
No Data Impact		5E6	SU 910069	-
		5E7	GA	GA
Problems with Routing Intra-LATA / Interstate Calls (TF)	523	5E4(2)	SU 910031	SU 910026
No Data Impact		5E5	SU 910089	SU 910080
		5E6	SU 910163	SU 910132
		5E7	GA	GA
Option to Prevent IDP Users from Using ODP LASS Dial Codes (TF)	524	5E5	SU 910050	-
No Data Impact		5E6	SU 910079	-
		5E7	GA	GA
Option to Provide 5E6 Functionality for Series Completion and MSS Interaction (TF)	531	5E7	SU 920124	SU 920120
		5E8	SU 920007	SU 920011
		5E9(1)	GA	GA
Limited 2 Level COT/AC (SF43)	532	5E6	SU 910014	SU 910011
See Division 2, Section 4A43	533	Not 5E7	NA	NA
POLIN (Privacy Option for Last Incoming Number) (SF48),	534	5E6	SU 910004	SU 910003
See Division 2, Section 4A48		5E7	GA	GA
DTA Routing of Calls Based on Attendant's LCC (TF)	535	5E7	GA	GA
No Data Impact				

Customized Announcement 5E6 to 5E7 Retrofit Fix (TF)	536 537	5E7 Only	GA	GA
No Data Impact				
Shared DN Groups Across SM/RSM Clusters (TF)	538	5E6	SU 910056	SU 910038
No Data Impact		5E7	GA	GA
MSSCF (Message Service System Call Forwarding Interaction) (TF)	539	5E6	SU 910129	SU 910124
		5E7	Retrofit	-
		5E8	Retrofit	-
		Not 5E9	NA	NA
Transfer to ACD from ARU (SpF)	540	5E6	SU 910169	SU 910141
		5E7	SU 920035	SU 910004 SU 910030
		5E8	GA	GA
Calling Name Delivery (SF40) - Phase 0 See Division 2, Section 4A40	541	5E6	SU 910142	-
		5E7	SU 920005	SU 910112
		5E8	GA	GA
Calling Name Delivery (SF40) - Phase 2 See Division 2, Section 4A40	541	5E7	SU 920105	SU 920087
		5E8	GA	GA
		5E9(1)	GA	GA
Calling Name Delivery (SF40) - Phase 2.1 See Division 2, Section 4A40	541	5E8	SU 930010	SU 920029
		5E9(1)	GA	GA
ISDN Fast Transfer Enhanced Feature (TF)	542	5E8	GA	GA
Provide Redirect Display for TGSF and ACVT	543	5E6	SU 920032	SU 920024
Enhancement for Terminating Restrictions Resulting with Reroute to a DN (TF)		5E7	SU 920056	SU 920036
		5E8	GA	GA
Metro Hub (ELIGI) (SF60)	544	5E6	SU 910092	SU 910084
See Division 2, Section 4A60		5E7	GA	GA
Option to Block the Sending of Off-Switch Calling DN Across API Link (TF)	545	5E6	SU 910075	SU 910146
No Data Impact		5E7	GA	GA
LASS and Split NPA Management (SF36)	546	5E6 and	SU 910133	SU 910114
See Division 2, Section 4A36	547	5E7 Only	SU 910033	SU 910019
	548	5E8	NA	NA
800 Post Dial Delay MF Signaling Transmission Reduction (for End Office) (SF28)	549	5E6	SU 930002	SU 920093
See Division 2, Section 4A28	556	5E7	SU 930004	SU 920136 SU 920138
		5E8	SU 920019	SU 920025 SU 920043
		5E9(1)	GA	GA
Charge/No Charge for UCR (Unidentified Call Rejection) Call Rej Annc (SF47)	550	5E6	SU 910163	SU 910162
See Division 2, Section 4A47		5E7	GA	GA
		5E8	GA	GA
AMA Recording of Prefixed Digits in PNDP (Private Network Dialing Plan) (TF)	551	5E6	SU 920035	SU 920017
		5E7	SU 920081	SU 920022
		5E8	GA	GA
OSPS LS Billing on Position Release (TF)	552	5E7	SU 920061	SU 910060
		5E8	GA	GA
UCR Special Feature Option for Confirmation Announcement/Tone with the UCR Activation Dial Code (SF47)	553	5E6	SU 920057	SU 920040
See Division 2, Section 4A47		5E7	SU 920083	SU 920040
		5E8	GA	GA
Option to Maintain the 5E6 Operation of Intraswitch Originally Called DN (OCDN) Which is Sent to VMS (Voice Mail System) (TF)	554	5E7	SU 920077	SU 920065
		5E8	GA	GA

IALT (Intra-Switch Analog Line Transfer) (SF80) See Division 2, Section 4A80	555	5E7 5E8 5E9(1)	SU 920131 SU 930006 GA	SU 920102 SU 920015 GA
UCR Special Feature Option for Confirmation Announcement/Tone with the UCR Deactivation Dial Code (SF47) See Division 2, Section 4A47	557	5E6 5E7 5E8	SU 920057 SU 920083 GA	SU 920072 SU 920072 GA
Hotel/Motel Charge Table Option (TF)	558	5E8 5E9(1)	GA GA	GA GA
OSPS AIBNS (Automated Inward Billed Number Screening) (SF107) See Division 2, Section 4A107	559	5E8 5E9(1)	SU 930008 GA	SU 930004 GA
OSPS Volt Delta DA Interface (SF87) See Division 2, Section 4A87	560	5E8 5E9(1)	SU 930008 GA	SU 930006 GA
OSPS AATOS (Access To Operator Services) (TF)	561	5E8 5E9(1)	SU 920015 GA	SU 920038 GA
OSPS EABS (External Alternate Billing System) Alternate Routing (SF86) See Division 2, Section 4A86	562	5E8 5E9(1)	SU 930008 GA	SU 930010 GA
OSPS FTS (Federal Telephone System) / NRA (Network Remote Access) (SF85) See Division 2, Section 4A85	563	5E8 5E9(1)	SU 930012 GA	SU 930025 GA
OSPS Alternate Access to Language Specific Operator Services (SF84) See Division 2, Section 4A84	564	5E8 5E9(1)	SU 930010 GA	SU 930013 GA
OSPS DIOR Speed Dialing (SpF)	565	5E8 5E9(1)	SU 930012 GA	SU 930016 GA
OSPS EABS (External Alternate Billing System) - Alternate Routing Transition	566	5E8 Only 5E9(1)	SU 930008 NA	SU 930010 NA
OSPS AMA Identification of 800 Access Calls (SF112) See Division 2, Section 4A112	567	5E8 5E9(1)	SU 930019 GA	SU 930030 GA
OSPS 0+ / 1+ 500 and 1+700 Traffic Handling (SF69) See Division 2, Section 4A69	568	5E8 5E9(1)	SU 930012 GA	SU 930017 GA
DC-ACVT (Direct Connect Capability for Analog Lines through ISDN ACVT feature (SF12) See Division 2, Section 4A12	569	5E8 5E9(1) Not 5E9(2)	SU 930033 GA NA	SU 930050 SU 930059 GA NA
OSPS Interflow for Operator Conferences (SF361) See Division 2, Section 4A361	570	5E9(1)	GA	GA
OSPS CICADA Mute Back (SF115) See Division 2, Section 4A115	571	5E8 5E9(1)	SU 930015 GA	SU 930022 GA
OSPS Feature Group D Incoming Signaling for Special Applications (SF83) See Division 2, Section 4A83	572	5E8 5E9(1)	SU 930027 GA	SU 930043 GA
OSPS ACQS Rate Distinction Based on Quote Delivery (SF82) See Division 2, Section 4A82	573	5E8 5E9(1)	SU 930027 GA	SU 930039 GA
OSPS BNS (Billed Number Screening) Fraud Control (SF26) See Division 2, Section 4A26	574	5E8 5E9(1)	SU 930027 GA	SU 930045 GA
OSPS Telephone Relay Service Call Handling (SF25) See Division 2, Section 4A25	575	5E8 5E9(1)	SU 930033 GA	SU 930048 GA
POLIN (Private Option for Last Incoming Number)/CFDA (Call Forwarding Don't Answer) Feature Interaction (SpF)	576	5E8 5E9(1)	SU 930011 GA	SU 930018 GA
Multi-Distinctive Ringing and Message Service System Interaction Option (TF)	577	5E8 5E9(1)	SU 930019 GA	SU 930035 GA

Revertive Ringback Announcement (TF)	578 579	5E9(1)	GA	GA
OSPS Route ACCS RAF Failures to AP (TF)	580	5E8 5E9(1)	SU 930017 GA	- GA
Limited Intra-Group ICLID (LIGI) (TF) - Call Forwarding	581	5E8 5E9(1)	SU 930026 GA	SU 930037 GA
OSPS Non-Equal Access Dummy ANI for Unitel AATOS	582	5E8 5E9(1)	SU 930032 GA	- GA
OSPS Virtual Card (SF23) See Division 2, Section 4A23	583	5E8 5E9(1)	SU 930035 GA	SU 930053 GA
OSPS AATLSOS - (Allow Sent Paid Special Feature - Phase 2)	584	5E9(1) 5E9(2)	SU 940009 GA	SU 940012 GA
OSPS AATLSOS (Allowed Sent Paid Special Feature - Phase 1) (SF84) See Division 2, Section 4A84	585	5E8 5E9(1) 5E9(2)	SU 930037 SU 930003 GA	SU 930060 SU 930002 GA
OSPS CIID - Carrier Specific Routing (SF363) See Division 2, Section 4A363	586	5E9(1)	GA	GA
PRI Echo Cancler Options	587 588	5E9(1)	GA	GA
OSPS AATOS/AATLOS Fraud Control	589 590	5E8 5E9(1)	SU 930032 GA	SU 930054 GA
Centrex Tie Line Unanswered Call Record	591	5E8 5E9(1) 5E9(2)	SU 930043 SU 940006 GA	SU 930074 SU 940007 GA
Call Park - Feature Assignment Enhancement	592	5E9(1)	GA	GA
Inhibit 800 Post Dial Delay MF Signaling Response Reduction (Access Tandem Office) (SF29) See Division 2, Section 4A29	593	5E8 5E9(1)	SU 930038 GA	SU 930065 GA
OSPS AATLSOS - (Allow Sent Paid Special Feature - Phase 2 - BNS Query Option)	594	5E9(1) 5E9(2)	SU 940009 GA	SU 940012 GA
OSPS Screening for Real Time Call Details (SF366) See Division 2, Section 4A366	595	5E9(1) 5E9(2)	SU 940008 GA	SU 940019 GA
OSPS OTR with Automated Position ID	596	5E9(1) 5E9(2)	SU 940008 GA	SU 940011 GA
OSPS Prepaid Overtime for Coin Calls (SF372) See Division 2, Section 4A327	597	5E9(1) 5E9(2)	SU 940018 GA	SU 940043 GA
Clock Synchronization Circuit	598	5E8 5E9(1) 5E9(2)	SU 940009 SU 940028 GA	- - GA
OSPS LIDB - Recognition of PSDI Value 4 (SF368) See Division 2, Section 4A368	599	5E9(1) 5E9(2)	SU 940003 GA	SU 940003 GA
OSPS Inclusion of International Called Number in LIDB Query	600	5E9(1) 5E9(2)	SU 940011 GA	SU 940025 GA
OSPS Automated Inward Line Screening - Phase 1 (SF370) See Division 2, Section 4A370	601	5E9(1) 5E9(2) 5E10	SU 940023 SU 940009 GA	SU 940071 SU 940009 GA
OSPS Inclusion of International Calling Country Code in LIDB Query	602	5E9(1) 5E9(2)	SU 940011 GA	SU 940025 GA
OSPS Allow Back Number Listing Services Calls	603	5E9(1) 5E9(2)	SU 940005 GA	- GA
OSPS Terminating Point Restriction Expansion (SF371) See Division 2, Section 4A371	604	5E9(1) 5E9(2)	SU 940023 GA	SU 940061 GA
OSPS Feature Group D Incoming Signaling for Special Application - Release 2 (SF373) See Division 2, Section 4A373	605	5E9(1) 5E9(2)	SU 940018 GA	SU 940048 GA
OSPS Automated Inward Line Screening - Phase 2	606	5E9(2) 5E10	SU 950009 GA	SU 950031 GA

OSPS Recall from Subscriber Deactivation (SF376) See Division 2, Section 4A376	607	5E9(1) 5E9(2)	SU 940023 GA	SU 940053 GA
COT Duplicate Activation Request Treatment	608	5E8 5E9(1) 5E9(2)	SU 940009 SU 940013 GA	SU 940010 SU 940029 GA
OSPS TCS Screen Code Expansion	609	5E9(1) 5E9(2)	SU 940020 GA	SU 940056 GA
OSPS Feature Group D Incoming Signaling for Special Application - Release 2 - AMA Option	610	5E9(1) 5E9(2)	SU 940018 GA	SU 940048 GA
Incoming Foreign Exchange Calls (Defeating Immediate Answer)	611	5E9(1) 5E9(2) 5E10	SU 940029 SU 950003 GA	SU 940080 SU 950004 GA
Screening of E911 Calls	612	5E9(1) 5E9(2)	SU 940023 GA	SU 940072 GA
OSPS 800 Access Using Feature Group D Signaling (SF377) See Division 2, Section 4A377	613	5E9(1) 5E9(2)	SU 940026 GA	SU 940075 GA
OSPS LEC Feature Group D Incoming Signaling/Special Handling of Calls (SF379) See Division 2, Section 4A379	614	5E9(1) 5E9(2) 5E10	SU 940030 SU 940009 GA	SU 940086 SU 940004 GA
OSPS Customer Controlled Reconnect to DA (SF381) See Division 2, Section 4A381	615	5E9(1) 5E9(2) 5E10	SU 940037 SU 950005 GA	SU 940105 SU 950020 GA
OSPS Forward Number Interdigit Timing Change (SF382) See Division 2, Section 4A382	616	5E9(1) 5E9(2) 5E10	SU 940034 SU 950002 GA	SU 940092 SU 940018 GA
OSPS Feature Group D Enhancements (SF383) See Division 2, Section 4A383	617	5E9(1) 5E9(2) 5E10	SU 940034 SU 950002 GA	SU 940002 SU 940019 GA
OSPS Quantum Sequence Call Handling	618	5E9(1) 5E9(2) 5E10	SU 940038 SU 940009 GA	SU 940098 SU 940008 GA
OSPS AATLSOS Automated Access Prompt	619	5E9(2) 5E10 5E11	SU 950020 SU 950006 GA	SU 950061 SU 950003 GA
OSPS International Billed Number Screening Release 2 (SF386) See Division 2, Section 4A386	620	5E9(1) 5E9(2) 5E10	SU 950002 SU 950004 GA	SU 940116 SU 940026 GA
OSPS TRP Expansion for International Numbers (SF387) See Division 2, Section 4A387	621	5E9(2) 5E10	SU 950004 GA	SU 950002 GA
OSPS ACCS for Commercial Credit Cards (SF388) See Division 2, Section 4A388	622	5E9(2) 5E10	SU 950004 GA	SU 950014 GA
Ability to Drop Fully Restricted Terminating Leg of a Multiway Call (TF)	623	5E10	GA	GA
OSPS AMA Recording of the Access ID for CAP Calls (SF392) See Division 2, Section 4A392	624	5E9(2) 5E10	SU 950007 GA	- GA
OSPS Extending Round Trip Delay for OSC (TF)	625	5E10	GA	GA
OSPS Teleconferencing Service Signaling Interface (SF391) See Division 2, Section 4A391	626	5E9(2) 5E10	SU 950010 GA	SU 950030 GA
OSPS 800 Toll Free Services NPA Expansion (SF405) See Division 2, Section 4A405	627	5E10 5E11	SU 950004 GA	SU 950012 GA
OSPS Option for HOTMOT Line	628	5E9(1) 5E9(2) 5E10	SU 950004 SU 950002 GA	SU 940115 - GA

OSPS Allow Leading 1 and 011 for Automated Phone Number Collection	629	5E9(2) 5E10 5E11	SU 950022 SU 950004 GA	SU 950067 SU 950001 GA
OSPS BNS Query Message Enhancements (SF630) See Division 2, Section 4A630	630	5E9(1) 5E9(2) 5E10	SU 950004 SU 950005 GA	SU 940004 SU 950017 GA
Call Forwarding Block Operator and N11 Forward to DNs Option (TF)	631	5E9(1) 5E9(2) 5E10	SU 950004 SU 950019 GA	- SU 950062 GA
OSPS 1+ Time And Charges (SF396) See Division 2, Section 4A396	632	5E9(1) 5E9(2) 5E10	SU 950007 SU 950011 GA	SU 950012 SU 950032 GA
OSPS In Language Services Call Transfer Using Route Number (SF398) See Division 2, Section 4A398	633	5E9(2) 5E10	SU 950007 GA	SU 950027 GA
OSPS Specialized AMA for 15 Digit International Numbering Plan (SF397) See Division 2, Section 4A397	634	5E10	GA	GA
OSPS Early Position Release of International Calls (SF399) See Division 2, Section 4A399	635	5E9(2) 5E10	SU 950013 GA	SU 950038 GA
OSPS AATOS Fraud Control (SF401) See Division 2, Section 4A401	636	5E9(2) 5E10	SU 950018 GA	SU 950054 GA
OSPS AATOS Fraud Control - Enhanced Screening (TF)	637	5E10	GA	GA
OSPS Quiet Hear (TF)	638	5E9(2) 5E10 5E11	SU 950020 SU 950006 GA	- SU 950003 GA
OSPS Closed End Branding for Operator Handled Calls (TF)	639	5E9(2) 5E10 5E11	SU 950021 SU 950005 GA	SU 950070 SU 950015 GA
OSPS DACC AMA Record with Operator Entered Forward Number Special Feature.	640	5E9(1) 5E9(2) 5E10 5E11	SU 950017 SU 950022 SU 950004 GA	SU 950071 SU 950071 - GA
OSPS Automation of T & A Information Special Feature	641	5E10 5E11	SU 950002 GA	SU 950022 GA
OSPS DIOR Calling Card Announcement Change Special Feature	642	5E9(2) 5E10 5E11	SU 950021 SU 950003 GA	SU 950068 SU 950005 GA
Automation of TCS / CPS Override	643	5E10	SU 960010 GA	SU 960028 GA
OSPS Quantum SDN	644	5E10 5E11	SU 960006 GA	SU 960006 GA
OSPS Quantum Calling Party Pays Air Time	645	5E10 5E11	SU 960006 GA	SU 960013 GA
E911 / TGSF Interaction Option	646	5E9(1) 5E9(2) 5E10 5E11	SU 950019 SU 960001 SU 970007 GA	- SU 950083 - GA
Option for ST on NONCI 0+	647	5E9(1) 5E9(2) 5E10 5E11	SU 950019 SU 950019 SU 960001 GA	- SU 950086 - GA
ASP IntraLATA PIC Interworking	648	5E10 5E11	SU 960005 GA	SU 960015 GA
OSPS Universal T1.5 Access Signaling Changes	649	5E11	GA	GA

Identification of Calls Originated Through Special Access Methods	650	5E10 5E11	SU 960009 GA	SU 960025 GA
OLS Call Routing for Special Services	651	5E10 5E11	SU 960010 GA	SU 960022 GA
OSPS AATLSOS Automated Access Prompting Using CPDL	652	5E10 5E11	SU 960025 GA	SU 960046 GA
ICLID Enhancement for MLHG (SF192) See Division 2, Section 4A192	653	5E10 5E11	SU 960008 GA	SU 960026 GA
Block No ANI on Non-Equal Access Calls	654	5E10 5E11	SU 960008 GA	SU 960016 GA
OLS Routing for 0 - Calls	655	5E10 5E11	SU 960020 SU 960005	SU 960051 SU 960005
OLS Routing for 00 - Calls	656	5E10 5E11	SU 960020 SU 960005	SU 960021 SU 960005
OSPS ASAP Language Specification Operator Services	657	5E10 5E11	SU 960017 SU 960007	SU 960044 SU 960001
OSPS AATLSOS Automated Access Prompting Menu Changes - Release 2	658	5E10 5E11	SU 96A008 GA	SU 960023 GA
OSPS Record and Playback (SF415) See Division 2, Section 4A415	659	5E10 5E11 5E12	SU 960019 SU 960006 GA	SU 960052 SU 960004 GA
Remove E911 PSAP Outpulsing Delay Option	660	5E9(1) 5E9(2) 5E10 5E11	SU 950002 SU 960002 SU 960010 GA	- - SU 960031 GA
CCS7 Incoming Signaling from 4ESS for Wireless Service Providers	661	5E11	GA	GA
OSPS Bill to Third Fraud Control Based on Third Number NPA	662	5E10 5E11 5E12	SU 960016 SU 960005 GA	SU 960037 SU 960002 GA
Call Waiting with 3-Way Calling Interaction	663	5E10 5E11	SU 960023 GA	SU 960059 GA
Billing Option for Spontaneous Usage Sensitive 3-Way Calling	664	5E10 5E11	SU 960016 GA	SU 960045 GA
Local Number Portability AMA Billing	665	5E11 5E12	SU 970005 GA	- GA
Deny Automatic Callback on Intra-LATA PIC Calls (SF201) See Division 2, Section 4A201	666	5E10 5E11	SU 960020 GA	SU 960057 GA
OSPS 800 Universal International Numbering	667	5E11 5E12	SU 970008 GA	SU 970018 GA
Selective NPA Deletion for ASP Multiple Rate Center Support	668	5E10 5E11 5E12	SU 970010 SU 970016 GA	SU 970015 - GA
Line Blocking Enhancement for ISVM	669	5E10 5E11 5E12	SU 970002 SU 970003 GA	SU 970002 SU 970006 GA
OSPS 10 Digit Branding in the AABS - AAP	670	5E10 5E11 5E12	SU 960028 SU 970003 GA	SU 960077 SU 960016 GA
OSPS NPA Handling by Trunk Group	671	5E11 5E12	SU 97A008 GA	SU 970024 GA
OSPS DIOR with Commercial Credit Card Capability	672	5E11 5E12 5E13	SU 970023 SU 980005 GA	SU 970064 SU 970011 GA
OSPS LS Automated Directory Assistance	673	5E10 5E11 5E12	SU 970006 SU 970009 GA	SU 970009 SU 970025 GA

OSPS Rate Quote for Flat and Measured Services	674	5E11 5E12	SU 970016 GA	- GA
OSPS AMA - Record ANI II Digits - Interim	676	5E11 5E12	SU 970009 GA	SU 970026 GA
OSPS 0 - LEC Calls Maintenance Handling	677	5E11 5E12	- GA	- GA
Access Code Option for SUSTWC	678	5E11 5E12 5E13	SU 970026 SU 970007 GA	SU 970089 - GA
OSPS DIOR 800 Services	679	5E12 5E13	SU 980021 GA	SU 980048 GA
ADSI Acknowledgment Timer Optional Value	680	5E12 5E13 5E14	SU 980025 SU 980004 GA	SU 980060 - GA
Transfer Two Outgoing ISUP?PRI Trunks Together	681	5E13 5E14 5E15 5E16(1)	SU 020001 SU 010003 SU 020006 GA	- SU 020017 SU 010069 GA
SS7 Response to PSU Isolation	682	5E16(2)	FR4	GA
Recent Change (Hashsum Failure) Blocking Feature (TF)	692	5E10	GA	GA
ASI Proxy Option for OLHB Population Feature	693	5E9(1) 5E9(2) 5E10 5E11	SU 950017 SU 950019 - GA	- SU 950062 - GA
Minimize SS7 Link Downtime During Retrofit	694	5E10 5E11 5E12	SU 970006 SU 970008 GA	- - GA
Auto ISDN Line Assignment	695	5E11 5E12	SU 980013 GA	SU 970037 GA
911 Billing for Toll Transferred Calls	696	5E10 5E11 5E12	SU 970009 SU 970010 GA	SU 970011 SU 970029 GA
Alternate Local Service Provide Routing	697	5E12 5E13	SU 990004 GA	SU 990005 GA
TPCC Use IDP/ODP	698	5E10 5E11 5E12	SU 980003 SU 980001 GA	SU 970018 SU 970070 GA
Number Portability NPA - NXX Growth	699	5E12	GA	GA
IC (Inter-exchange Carrier) Option for Screening Enhancements to Outside Calling Area Alerting	700	5E10 5E11 5E12	SU 970011 SU 970019 GA	SU 970017 SU 970043 GA
OSPS 800 Peel Out for Calling Card	701	5E12 5E13	SU 980005 GA	SU 980007 GA
OSPS PLBQ with Add-on Capability	702	5E10 5E12 5E13	SU 980003 SU 980007 GA	SU 980002 SU 980001 GA
OSPS Automated Sequential Card Queries	703	5E12	GA	GA
NP - Service Provider Portability AMA Enhancement (Originating) (depends on SFID 276) See Division 2, Section 4A276	704	5E11 5E12 5E13	SU 980011 SU 980015 GA	SU 980023 SU 980028 GA
NP - Service Provider Portability AMA Enhancement (Terminating) (depends on SFID 276) See Division 2, Section 4A276	705	5E11 5E12 5E13	SU 980011 SU 980015 GA	SU 980023 SU 980028 GA
OSPS CAS TCAP Query Changes Using CCC Numbers	706	5E11 5E12 5E13	SU 970024 SU 970006 GA	- SU 970012 GA
OSPS CAS TCAP Query Changes Using CAS Numbers	707	5E11	SU 970024	SU 970066

		5E12	-	-
		5E13	GA	GA
TCP/IP Security Enhancements for CALEA	708	5E15 FR5	FR5	-
		5E16	GA	GA
Deny Transfer of International Calls	709	5E11	SU 970026	SU 970077
		5E12	SU 97B006	SU 970014
		5E13	GA	GA
Telcordia Technologies (Bellcore) Cause Codes and Location Values	710	5E13	GA	GA
OSPS Acceptance of New Parameters in LIDB BNS and Card Replies	711	5E11	SU 980006	SU 980005
		5E12	SU 980003	SU 980003
		5E13	GA	GA
Deny Transfer of Digit Screened Calls	712	5E13	GA	GA
MCG (Manual Control Gap) Interactions with LNP	713	5E11	SU 970027	-
		5E12	SU 980001	-
		5E13	GA	GA
OSPS Credit Key Blocking for Domestic Calls	714	5E11	SU 980005	SU 980009
		5E12	SU 980006	SU 980009
		5E13	GA	GA
OSPS Credit Key Blocking for International Calls	715	5E11	SU 980005	SU 980009
		5E12	SU 980006	SU 980009
		5E13	GA	GA
E911 Call Error Detection and Alarm (SF293) See Division 2, Section 4A293	716	5E11	SU 980011	SU 980017
		5E12	SU 980014	SU 980022
		5E13	GA	GA
Simplified Custom ISDN Attendant	717	5E12	-	-
		5E13	-	-
		5E14	GA	GA
ASP CDI/RTI Ignore on LNP	718	5E11	SU 980006	-
		5E12	SU 980007	-
		5E13	GA	GA
CNA Trunk Group Billing Number	719	5E11	SU 980011	SU 980024
		5E12	SU 980016	SU 980024
		5E13	GA	GA
OSPS NPA Code Expansion	720	5E11	-	-
		5E12	SU 980024	SU 980063
		5E13	GA	GA
OSPS 0 - LEC Calls Maintenance Assert Handling	721	5E13	GA	GA
Abstract OSPS Enhanced AMA LS Single Record	722	5E11	SU 980007	-
		5E12	SU 980011	-
		5E13	GA	GA
Balance	723	5E11	SU 980013	SU 980035
		5E12	SU 980017	SU 980035
		5E13	GA	GA
NP Service Provider Portability AMA Enhancements (SF276) See Division 2, Section 4A276	724	5E11	SU 980013	SU 980023
		5E12	SU 980017	-
		5E13	GA	GA
OSPS Flexible ANI Enhancement	725	5E11	SU 980009	SU 980025
		5E12	SU 980014	-
		5E13	GA	GA
AATLOS - Automated Access Prompting Non-Tariffed Announcement	726	5E11	SU 980009	SU 980026
		5E12	SU 980017	SU 980030
		5E13	GA	GA
OSPS Billed Number Screening Call Blocking - Release 2	727	5E11	SU 980014	SU 980036
		5E12	SU 980020	SU 980045
		5E13	GA	GA
ASP Alternate Routing Before Announcement	729	5E13	GA	GA

Control of DACC Per LS/DA Transporting Carrier	730	5E12 5E13 5E14	SU 980025 SU 980004 GA	SU 980068 SU 980001 GA
DIOR Calling Card Restrictions to Domestic Terminations	731	5E12 5E13 5E14	SU 980025 SU 980002 GA	SU 980076 - GA
OAS Call Origination for Intertoll Trunk Calls	732	5E12 5E13 5E14	SU 990006 SU 99B006 GA	SU 990013 SU 990017 GA
Send pANI to 8-digit PSAP	733	5E12 5E13 5E14	SU 980023 SU 99A004 SU 980023	- - -
Trunk trigger for Toll	734	5E12 5E13 5E14	SU 980025 SU 980002 GA	- - GA
Inhibit TGC NPA Deletion On Reroute	735	5E11 5E12 5E13 5E14	SU 990001 SU 990002 SU 980007 GA	- - SU 980017 GA
Inhibit Flash on E911 Calls No Data Impact	736	5E10 5E11 5E12 5E13 5E14	- SU 990001 SU 990007 SU 980003 GA	- - - - GA
Call Forward Don't Answer - Ring Control	737	5E12 5E13 5E14	SU 990004 SU 990004 GA	SU 990006 SU 990009 GA
30 SEC T310 Timer for PRI	738	5E11 5E12 5E13 5E14	SU 990001 - SU 990005 GA	- - - GA
Use NPA to get NPD from ESCO	740	5E11 5E12 5E13 5E14	SU 990001 SU 990002 SU 980007 GA	- - - GA
OTR Automatic Link Restoral	741	5E12 5E13 5E14	- - GA	- - GA
NPA to NPD Translation Table for E911 Calls	742	5E12 5E13 5E14	SU 990009 SU 990007 GA	- - GA
Pre-query Screen for TYPE CI CALL of TCONF.	743	5E10 5E11 5E12 5E13 5E14	- SU 990003 SU 990004 SU 990007 GA	- - - - GA
ASP Toll Free Service Interaction with Flexible ANI Features	744	5E13 5E14 5E15	- - GA	- - GA
ASP Toll Free Service Interaction with Flexible ANI Features	745	5E13 5E14 5E15	- - GA	- - GA
Call Forward Don't Answer During Ringback of a Call Waiting Call	746	5E12 5E13 5E14 5E15	— — - -	- — — GA

			GA	
ASP/LDP Module 21 220 Record Enhancement	747	5E13	SU 990021	SU 990070
		5E14	SU 990004	SU 990014
		5E15	GA	GA
Standard PRI XMIT Progress Instead of Alerting when Interworking non-ISDN	748	5E14	SU 990001	-
		5E15	GA	GA
Selective Destination Screening for Software Defined Network	749	5E11	—	—
		5E15	GA	GA
Include CSI in IAM for ASP Calls	750	5E14	—	—
		5E15	GA	GA
Release Link for Toll (SFs 520 and 521) See Division 2, Sections 4A520 and 4A521)	788	5E14	GA	GA
Populate Call Type with ASP Default for Continue with Slip	948	5E13	-	-
		5E14	GA	GA
SPS ANSI Incoming Signaling System Number 7 from End Office	949	5E14	-	-
NP - DID PBX Query Enhancement	950	5E13	FR2	FR 990025
PCN Request Handling Parameter	951	5E14	IMR 719567	IMR 719567
		5E15	GA	GA
OSPS Provide Account Owner to LSDB Feature Activation	952	5E13	SU 0010	SU 000007
		5E14	-	-
		5E15	GA	GA
OSPS Control of Call ID Activation	953	5E14	SU 0010	SU 000007
		5E15	GA	GA
Easy Access to Voice Mail (Depend upon SFID 540. See Division 2, Section 4A540)	954	5E15	GA	GA
1000 Block Number Pooling Using Number Portability (Depends on SFID 530. See Division 2, Section 4A530)	955	5E14	FR3	-
		5E15	GA	GA
1000 Block Number Pooling Using Number Portability (Depends on OFID 955.)	956	5E14	FR3	-
		5E15	GA	GA
DA Custom Branding by Account Owner (Depends on SFID 543) (See Division 2, Section 4A543)	970	5E13	FR3	FR 000011
		5E14	FR2	-
		5E15	GA	GA
Audible Calling Name on *69 (Automatic Callback) (Depends on SFID 549. See Division 2, Section 4A549.)	971	5E14	FR3 GA	-
		5E15		GA
Allow SCP DAL Carrier Compare	972	5E15	GA	GA
ASP Monitor for BRI and Multiline Hunt Group	973	5E15	FR1	-
Commercial Credit Card Alternate Access Methods	974	5E14	FR4	-
		5E15	GA	GA
PSAP (Public Safety Answering Point) Trunk Reports	975	5E13	-	-
OOS BLKD When Originator Hangs Up Before PSAP		5E14	-	-
		5E15	GA	GA
Talking Call Waiting	976	5E13	-	-
DA Automatic Position Release (Depends on SFID 559. See Division 2, Section 4A559.)	977	5E14	FR3	-
GETS (Government Emergency Telecommunications Service) Egress Queuing	978	5E15	FR3	SU 010036-
		5E16	GA	GA
GETS (Government Emergency Telecommunications Service) Office Queuing	979	5E15	FR3	SU 010036-
		5E16	GA	GA
Carrier Compare For VPN (Virtual Private Network) Depends on SFID 165 and SFID 242.	980	-	5E14 FR6	-
		-	5E15 FR2	-
		5E16	GA	GA
NM 3 Digit Reroute	981	5E14	-	-
		5E15	-	-

		5E16(1)	GA	GA
Inhibit No Circuit Peg Counts on Final Route Type of Busy	983	5E14	IMR 720980	IMR 720980
NPA Split Enhancement	984	5E15	GA	GA
		5E14	SU 010002	SU 010003
		5E15	-	-
		5E16(1)	GA	GA
LEA TPKT Inhibit	985	5E14	SU 010002	-
		5E15	GA	GA
Use Originators Screen Index for ANI II Digits	986	5E14	-	-
		5E15	GA	GA
PRI Calling Party Number Presentation Indicator Exception	987	5E14	SU 010002	-
		5E15	GA	GA
Enhancement for Stand-Alone Routing for International	988	5E14	SU 030002	SU 010016
		5E15	SU 020008	SU 010068
		5E16(1)	GA	GA
Alternate ASP Algorithm used' to Delete an NPA	989	5E14	SU 010003	-
		5E15	SU 010010	-
		5E16(1)	GA	GA
256K Trunk Scaling for Mega 5ESS	990	5E16	GA	GA
Bypass Subset of Crosschecks during RCV 10.10 Screening Delete	992	5E14	SU 010005	-
		5E15	SU 010016	-
		5E16(1)	GA	GA
Listing Services for OSPS ANSI Incoming SS7 form End Offices	993	5E14	SU 010006	SU 990009
		5E15	SU 010016	-
		5E16(1)	GA	GA
Canadian 15-Digit International Direct Distance Dialed	994	5E14	SU 010008	SU 010014
		5E15	SU 010017	-
		5E16(1)	GA	GA
Precedence and Preemption Terminating Feature Selection Enhancement	996	5E15	SU 020002	-
		5E16(2)	GA	GA
Delete Network Identity Digits on PRI PLI IE	997	5E15	SU 020007	SU 020013
		5E16(2)	GA	GA
GETS Enabled Edge Switch	998	5E16(2)	GA	GA
DNIS Enhancement for Canada - Part 1	999	5E15	FR 5	-
DNIS Enhancement for Canada - Part 2	1000	5E15	FR 5	-
DNIS Enhancement for Canada - Part 3	1001	5E15	FR 5	-
PRI CBC with Blank/Zero SFG Screen Index	1003	5E14	IMR 759058	IMR 759058
		5E15	IMR 759058	IMR 759058
		5E16(1)	IMR 759058	IMR 759058
		5E16(2)	GA	GA
Inhibit Printing of FC2CF_LTM Assert	1004	5E14	SU 030001	SU 020006
		5E15	SU 020009	SU 020025
		5E16(1)	SU 020008	SU 020014
		5E16(2)	GA	GA
IAM Charge Number	1005	5E15	SU 200003	SU 200002
		5E16.1		
		5E16.2		
		5E17.1		
256 ISUP Tandem Solution	1006	5E16(2)	SU 030001	SU 020006
		5E17(1)	GA	GA
On-Hook Data Transmission without Power Ring	1008	5E15	FR4	-
		5E16	GA	GA
IMLT Metallic A-Link Blackage Notification	1010	5E16(2)	FR1	-
Inhibit CGA (Carrier Group Alarms)	1012	5E16(2)	FR1	SU 30011
SS7 Release Message	1013	5E16(2)	GA	GA
NCA (No Circuit Available) MDII	1014	5E16(2)	SU 030013I	-
PRI Origination Send Disconnect with cause 34 for Trunk Busy Condition	1015	5E16(2)	SU 030010	SU 030031
Shared use of GDX Compensators on Priority Basis	1016	5E16(2)	FR4	GA

OCN Sending with no Redirection Information	1022	5E20(1)	GA	GA
TrFo Path Minimization	1027	5E21(1)	GA	GA

Notes:

SU - Feature available in a Software Update (Formerly called BWM).

GA - Feature available in the General Availability Software Release.

- = No Informational Software Update available.

NA - Not applicable. An optioning bit is no longer needed to option the feature. An alternative mechanism (e.g., a dedicated parameter or an option name on the options views) is now used to option the feature.

(SFxx) - Secured Feature. Optional feature that can be purchased. For more information refer to Division 2, Section 4Axx.

(SpF) - Special Feature. For more information refer to Division 2, Section 4C.

(TF) - Transparency Feature. For more information refer to Division 2, Section 4B0, Page 1.

Figure 1 ID NUMBERS FOR TRANSPARENCY FEATURES

SCREEN 1 OF 6

fosys

(5713-2)

5ESS Switch

OFFICE DATA ADMINISTRATION

OPTIONED FEATURE UPGRADE

*1. MODULE OFC

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT
1	500	—	9	508	—	17	516	—	25	524	—	33	532	—	41	540	—
2	501	—	10	509	—	18	517	Y	26	525	—	34	533	—	42	541	—
3	502	—	11	510	—	19	518	—	27	526	—	35	534	—	43	542	—
4	503	—	12	511	—	20	519	—	28	527	—	36	535	—	44	543	—
5	504	—	13	512	—	21	520	—	29	528	—	37	536	—	45	544	—
6	505	—	14	513	—	22	521	—	30	529	—	38	537	—	46	545	—
7	506	—	15	514	—	23	522	—	31	530	—	39	538	—	47	546	—
8	507	—	16	515	Y	24	523	—	32	531	—	40	539	—	48	547	—

SCREEN 2 OF 6

fosys

(5713-2)

5ESS Switch

OFFICE DATA ADMINISTRATION

OPTIONED FEATURE UPGRADE

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT
49	548	—	57	556	—	65	564	—	73	572	—	81	580	—	89	588	—
50	549	—	58	557	—	66	565	—	74	573	—	82	581	—	90	589	—

51 550 _	59 558 _	67 566 _	75 574 _	83 582 _	91 590 _
52 551 _	60 559 _	68 567 _	76 575 _	84 583 _	92 591 _
53 552 _	61 560 _	69 568 _	77 576 _	85 584 _	93 592 _
54 553 _	62 561 _	70 569 _	78 577 _	86 585 _	94 593 _
55 554 _	63 562 _	71 570 _	79 578 _	87 586 _	95 594 _
56 555 _	64 563 _	72 571 _	80 579 _	88 587 _	96 595 _

SCREEN 3 OF 6
fosys
(5713-2)

5ESS Switch
OFFICE DATA ADMINISTRATION
OPTIONED FEATURE UPGRADE

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT
97	596	_	105	604	_	113	612	_	121	620	_	129	628	_	137	636	_
98	597	_	106	605	_	114	613	_	122	621	_	130	629	_	138	637	_
99	598	_	107	606	_	115	614	_	123	622	_	131	630	_	139	638	_
100	599	_	108	607	_	116	615	_	124	623	_	132	631	_	140	639	_
101	600	_	109	608	_	117	616	_	125	624	_	133	632	_	141	640	_
102	601	_	110	609	_	118	617	_	126	625	_	134	633	_	142	641	_
103	602	_	111	610	_	119	618	_	127	626	_	135	634	_	143	642	_
104	603	_	112	611	_	120	619	_	128	627	_	136	635	_	144	643	_

SCREEN 4 OF 6
fosys
(5713-2)

5ESS Switch
OFFICE DATA ADMINISTRATION
OPTIONED FEATURE UPGRADE

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT
145	644	_	153	652	_	161	660	_	169	668	_	177	676	_	185	684	_
146	645	_	154	653	_	162	661	_	170	669	_	178	677	_	186	685	_
147	646	_	155	654	_	163	662	_	171	670	_	179	678	_	187	686	_
148	647	_	156	655	_	164	663	_	172	671	_	180	679	_	188	687	_
149	648	_	157	656	_	165	664	_	173	672	_	181	680	_	189	688	_
150	649	_	158	657	_	166	665	_	174	673	_	182	681	_	190	689	_
151	650	_	159	658	_	167	666	_	175	674	_	183	682	_	191	690	_
152	651	_	160	659	_	168	667	_	176	675	_	184	683	_	192	691	_

SCREEN 5 OF 6
fosis
(5713-2)

5ESS Switch
OFFICE DATA ADMINISTRATION
OPTIONED FEATURE UPGRADE

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT	ROW	FID	ACT
193	692	—	201	700	—	209	708	—	217	716	—	225	724	—	233	732	—
194	693	—	202	701	—	210	709	—	218	717	—	226	725	—	234	733	—
195	694	—	203	702	—	211	710	—	219	718	—	227	726	—	235	734	—
196	695	—	204	703	—	212	711	—	220	719	—	228	727	—	236	735	—
197	696	—	205	704	—	213	712	—	221	720	—	229	728	—	237	736	—
198	697	—	206	705	—	214	713	—	222	721	—	230	729	—	238	737	—
199	698	—	207	706	—	215	714	—	223	722	—	231	730	—	239	738	—
200	699	—	208	707	—	216	715	—	224	723	—	232	731	—	240	739	—

SCREEN 6 OF 6
fosis
(5713-2)

5ESS Switch
OFFICE DATA ADMINISTRATION
OPTIONED FEATURE UPGRADE

2. OPTIONED FEATURE ID LIST

ROW	FID	ACT	ROW	FID	ACT
241	740	—	249	748	—
242	741	—	250	749	—
243	742	—	251	750	—
244	743	—	252	751	—
245	744	—	253	752	—
246	745	—	254	753	—
247	746	—	255	754	—
248	747	—	256	755	—

Figure 2 SAMPLE FOSYS FORM 5E9(1) AND LATER SOFTWARE RELEASES

SEC. 5AT: 5544 RECORD MH PIPE ASSIGNMENT FORM - EQPIPE

1. GENERAL

The 5544 Record is available with the 5E9(2) and later Software Releases. It is used to assign QLPS (Quad-Link Packet Switch) MH (Message Handler) pipes in an SM-2000 office.

An SM-2000 Message Handler pipe is a high bandwidth path for message transport between a QLPS QTMSLNK (a port connection on the QLPS board of the TMS (Time Multiplex Switch)) and a given QLPS endpoint, that is, an MH (Message Handler) in an SM-2000. It is a physical path that sustains HDLC (High Level Data Link Control) traffic from the QLPS to the MH. When an SM-2000 Message Handler pipe is assigned, the operational software determines what resources are available for the pipe: QTMSLNKs and HDLC channels and timeslots on the QTMSLNKs.

New pipes cannot be assigned during a retrofit.

1.1 Recent Change View

The corresponding Recent Change View for this form is 17.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * QLPS NETWORK

Description: Enter the QLPS Board to which the pipe is assigned.

Required Field.

Valid Entries: 0, 1

Data Rules:

Two EQQLPS forms (5854 Record) must exist for the QLPS NETWORK entered here, one each for ONTC SIDE 0 and ONTC SIDE 1. On both forms EQSTAT must be "O".

2.3 * SM2000 SM

Description: Enter the SM-2000 on which the pipe is being defined.

Required Field.

Valid Entries: 1 - 192

Data Rules:

The SM-2000 must be defined on an EQIM form (5700-1/2 Record) where UNIT TYPE is "SM2000" and EQSTATUS is "O".

Each SM-2000 entered defines a MH Pipe from an SM-2000 class processor Switching Module to a QLPS NETWORK. Similarly, each GLOBAL SM, PSU SHELF, and CHANNEL GROUP combination entered on the

QPHPIPE form defines a QPH Pipe from a GSM (Global Switching Module) to a QLPS NETWORK. There is a limit to the number of pipes that can be defined on each QLPS NETWORK. There are 30 available pipes for each TMSLINK (QTMSLINK). There are 4 TMSLINKSs defined on each QLPS NETWORK for a total of 120 pipes for each QLPS NETWORK. Each TMSLINK has a total of 224 timeslots that can be utilized between the 30 pipes defined on that TMSLINK.

	5ESS Switch	—
eqpipe	OFFICE DATA ADMINISTRATION	
(5544)	MH PIPE ASSIGNMENT	

*1. QLPS NETWORK 0
*2. SM2000 SM 007

Figure 1 SAMPLE EQPIPE FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 5AU: 5545 RECORD LOCAL OFFICE SCREENING - LOCSCRN

1. GENERAL

The 5545 Record is available with the 5E8 Software Release. It is used to screen the NPA (Numbering Plan Area) and Office Codes (NXX) for long distance calls.

This form contains all of the NPA and NPA NXX entries which should be treated as local calls for the CWT (Call Waiting Terminating) with DT (Distinctive Tones) and DR (Distinctive Ringing) for Long Distance Calls.

This form must be populated with all NPA and NPA NXX entries that are considered local to the office. SS7 trunks with a TRKCLS of "LTOLLCON" will check this table for an entry. If an entry is found, the call is considered a local call. If the NPA or NPA NXX is not found on this table, the call is considered long distance and may require distinctive tones for call waiting, or distinctive ringing for long distance calls. For more information on the Call Waiting with Distinctive Tones and Distinctive Ringing for Long Distance Calls feature, see Division 2, Section 4A91.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.26.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *DAS

Description: The DAS field is used to allow a screening NPA+NXX table for each DAS in the switch. These screening tables are used to determine the call treatment for intra-switch and inter-switch calls. This field supports the Enhanced Long Distance Call Waiting Feature. For more information on this feature see Division 2, Section 4A91.

Software Release: 5E10 and later.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When the DAS field is entered there must be a corresponding DAS value defined on a DAS form.

2.3 * LOCAL NPA

Description: Enter the three digit local NPA that should be considered as local for CWT DT/DR (Call Waiting Distinctive Tones and Distinctive Ringing).

Software Release: 5E8 and later.

Required Field.

Valid Entries: 200 - 999

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured Feature that must be purchased by the office before data can be entered on the LOCSCRN form. Therefore, the ACT field for SFID 91 must be set to "Y" on the SFSYS form (5713-1 Record).

Once a LOCSCRN form is entered without specifying a LOCAL OFC CODE, no other LOCSCRN forms may be entered for the same LOCAL NPA.

2.4 (*) LOCAL OFC CODE

Description: Enter the Local Office Code that is considered as local to this office for CWT DT/DR. A LOCAL OFC CODE that is left blank implies that this is an NPA only case.

Software Release: 5E8 and later.

Valid Entries: 000 - 110, 112 - 999

Data Rules:

LOCAL OFC CODE cannot be equal to 111.

If the LOCAL NPA is entered and the LOCAL OFC CODE is unknown, then LOCAL OFC CODE cannot be entered for the same LOCAL NPA on any other LOCSCRN forms. Once a LOCSCRN form is entered without specifying a LOCAL OFC CODE, no other LOCSCRN forms may be entered for the same LOCAL NPA to specify NPA-NXX combinations.

locscrn	5ESS Switch	—
(5545)	OFFICE DATA ADMINISTRATION	
	LOCAL OFFICE SCREENING	

*1. LOCAL NPA	___
(*) 2. LOCAL OFC CODE	___

Figure 1 SAMPLE LOCSCRN FORM 5E8 THROUGH 5E9(2) SOFTWARE RELEASES

locscrn	5ESS Switch	—
(5545)	OFFICE DATA ADMINISTRATION	
	LOCAL OFFICE SCREENING	

*1. DAS	___
*2. LOCAL NPA	___
(*) 3. LOCAL OFC CODE	___

Figure 2 SAMPLE LOCSCRN FORM 5E10 - 5E14 SOFTWARE RELEASES

SEC. 5AV: 5546 RECORD LASS NPA SPLIT RESOLUTION FORM - NPASPLIT

1. GENERAL

The 5546 Record is available with the 5E6 and later Software Releases and is used to allow the customer to build data for a single NPA split.

The LASS NPA Split Resolution feature is a secured feature that must be purchased by the office and SFID 36 set to "S" on the SFSYS form (Record 5713-1 Record) before data can be entered on the NPASPLIT form.

For 5E6 and 5E7, there is a one-to-one correspondence between an old NPA and a new NPA. A given old NPA can be split into only one new NPA. A given new NPA can be split from only one old NPA.

In 5E8 and later, there can be a one-to-many and/or a many-to-one relationship between OLD NPA and NEW NPA. A given OLD NPA can be split into more than one NEW NPA.

For example, 312 could be split into both 708 and 815. Two NPASPLIT forms are built with the key sets:

OLD NPA = 312

NEW NPA = 708

OLD NPA = 312

NEW NPA = 815

A given NEW NPA can be split from more than one OLD NPA

For example, 816 could be split from 217, 319 and 808. Three NPASPLIT forms are built with the key sets:

OLD NPA = 217

NEW NPA = 816

OLD NPA = 319

NEW NPA = 816

OLD NPA = 808

NEW NPA = 816

For 5E8 and later, an NPASPLIT form is entered for every combination of OLD NPA and NEW NPA.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.25.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * OLD NPA

Description: Enter the old NPA (Numbering Plan Area) that is going to be split.

Required Field.

Valid Entries: 200 - 999

2.3 * NEW NPA

Description: Enter the new NPA into which the old NPA is being split.

Required Field.

Valid Entries: 200 - 999

2.4 TCAP VALID (OPTION 1)

Description: Should TCAP (Transaction Capabilities Application Part) validation be used? This option is used when validating the DN in a TCAP query for AC (Automatic Callback), AR (Automatic Recall) and SLE (Screen List Editing). If the TCAP NPA is in the NPA Split Table and TCAP VALID (OPTION 1) is "Y", the TCAP DN will be considered valid if the TCAP DN is valid with either NPA from the NPA Split Table.

For 5E6 and 5E7, this field exists for informational purposes only and is controlled by setting/resetting TFOS ID 546 on the FOSYS form (5713-2 Record). TFOS ID 546 controls the TCAP mismatch option. This option is used for TCAP queries to validate a DN in a TCAP query for AC (Automatic Callback), AR (Automatic Recall) or SLE (Screen List Editing). If TFOS ID 546 is "S" and the NPA in the TCAP query matches an NPA in the NPA split table, the DN in the TCAP query is considered valid.

Required Field.

Default: N

Valid Entries: Y, N

2.5 DIG SCRIN (OPTION 2)

Description: Should digit screening be used? This option is used when performing screening. If the calling NPA is in the NPA Split Table and DIG SCRIN (OPTION 2) is "Y", screening will use only the last seven digits of the calling DN when searching a screening list. If these seven digits match a DN on the screening list and the calling NPA and the screening list NPA are associated with the same NPA split, a match has been found and actions appropriate to the screening feature are taken. If the calling NPA and the list NPA do not match, the call will fail screening.

For 5E6 and 5E7, this field exists for informational purposes only and is controlled by setting/resetting TFOS ID 547 on the FOSYS form (5713-2 Record). TFOS ID 547 is the screening office option. This option is used when performing screening on an incoming call. If TFOS ID 547 is "S", screening is done on the seven digits, NXX-XXXX, of the calling DN. If the seven digits match a DN on the screening list, and if the calling NPA and the screening list NPA are associated with the same NPA split, a match has been found. If the screening list NPA is not associated with the same NPA split as the calling NPA, screening continues.

Required Field.

Default: N

Valid Entries: Y, N

2.6 SLE DEL (OPTION 3)

Description: Should SLE (Screen List Editing) deletion screening be used? When using SLE to delete a number from a screening list, if the NPA of the number to delete is in the NPA Split Table and SLE DEL (OPTION 3) is "Y", SLE list delete will use both the old and the new NPA to check if the DN exists on the list.

For 5E6 and 5E7, this field exists for informational purposes only and is controlled by setting/resetting TFOS ID 548 on the FOSYS form (5713-2 Record). TFOS ID 548 is the SLE add/delete option. If TFOS ID 548 is "S" and the NPA of the DN being added/deleted from the screening list is in the NPA split table, SLE uses both old and new NPAs to check if the DN is on the screening list.

Required Field.

Default: N

Valid Entries: Y, N

2.7 SLE CHNG (OPTION 4)

Description: Should SLE (Screen List Editing) change screening be used? When using SLE to add a number to a screening list, if the NPA of the number to add is in the NPA Split Table and SLE CHNG (OPTION 4) is "Y", SLE list add will use both the old and the new NPA to check if the DN already exists on the list. If the DN is on the list with the old NPA, and the user has attempted to add it with the new NPA, SLE list add will update the screening list entry and replace the old NPA with the new NPA.

For 5E6 and 5E7, this field exists for informational purposes only and is controlled by setting/resetting TFOS ID 548 on the FOSYS form (5713-2 Record). TFOS ID 548 is the SLE add/delete option. If TFOS ID 548 is "S" and the NPA of the DN being added/deleted from the screening list is in the NPA split table, SLE uses both old and new NPAs to check if the DN is on the screening list.

Required Field.

Default: N

Valid Entries: Y, N

npasplit	5ESS Switch	—
(5546)	OFFICE DATA ADMINISTRATION	
	LASS NPA SPLIT RESOLUTION	
*1. OLD NPA	312	
*2. NEW NPA	708	
TCAP VALID (OPTION 1)		
DIG SCRNM (OPTION 2)		
SLE DEL (OPTION 3)		
SLE CHNG (OPTION 4)		

Figure 1 SAMPLE NPASPLIT FORM 5E6 AND 5E7 SOFTWARE RELEASES

npasplit	5ESS Switch	—

(5546) OFFICE DATA ADMINISTRATION
 LASS NPA SPLIT RESOLUTION

*1. OLD NPA 312
*2. NEW NPA 708
3. TCAP VALID (OPTION 1) Y
4. DIG SCRNM (OPTION 2) Y
5. SLE DEL (OPTION 3) Y
6. SLE CHNG (OPTION 4) Y

Figure 2 SAMPLE NPASPLIT FORM 5E8 SOFTWARE RELEASE

SEC. 5AW: 5547 RECORD SRE INCREMENTAL GLOBAL PARAMETERS - SREINCR

1. GENERAL

- **WARNING:** This view should not be used to make changes to dynamic memory without first contacting your local support and/or Lucent Technologies support. Once the software resource is increased, it cannot be decreased without a switch initialization. For more detailed information, refer to Lucent Technologies 235-070-100, Administration and Engineering Guidelines, Sec. 10: SM Resource Utilization; SM Resource Overload Control; Software Engineerable Resources.

The 5547 Record is available with the 5E9(2) and later Software Releases. It is used to increase engineering software resource (memory) parameters per SM (Switching Module) for new start and/or retrofit offices. The SREINCR form is implemented to facilitate efficient utilization of memory per SM. A software resource is defined as a dynamic ODD (Office Dependent Data) data structure, or data block, required to provide the necessary memory to support various service requirements.

1.1 Software Resource Calculation

Effective with 5E9(2) and later, automatic algorithms calculate dynamic software resources per SM based upon factors such as the number of lines, trunks, feature usage, etc. This process is adequate to handle most engineerable software resources and therefore use of ODA to define quantities of software resources should not be necessary.

In some instances, however, this form may be required in order to initially define an allocation of software resources. For example, in the case of the SRVOT software resource, the automatic algorithm's SRVOT calculation may over/under engineer memory per SM in sites that have LS (Listing Services) trunking on a subset of SMs. In this case, this form is used by the administrator to allocate SRVOT software resources in the SMs that serve LS calls. This could also apply to COINOT. SRVOT and COINOT calculations are dependent upon the global values set on the OSPSOPT form (5424 Record) using the LS QUANTUM and COIN MECH fields, respectively (see Division 3, Section 4Y).

The SREINCR INCREMENTAL VALUE field is used to initially define the quantity of a particular software resource, when necessary. The increment range is 0 - 65535; however, there is a maximum quantity of data blocks that can be assigned to a particular software resource, by type of switching module (i.e., SM, SM-2000, or Administrative Module), as indicated in the Maximum Incremental Values table in this section.

1.2 Recent Change View

The Recent Change View for this form is 8.40.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *MODULE

Description: Enter the number to distinguish the SM from the AM (Administrative Module). The 1 - 192 range is used to designate an SM; 193 is used to designate an AM for purposes of updating Software Resources.

Required Field.

Valid Entries: 1 - 193

Data Rules:

If MODULE is 1 - 192 (i.e., SM), there must be at least one EQIM form where the SM field on the EQIM form matches the MODULE field on this form.

If MODULE 1- 192, and SOFTWARE RESOURCE is "CINDEX7" or "ENTRY7" and INCREMENTAL VALUE is a non-zero value, there must be at least one TRUNK form specified with a DEN, TEN, or NEN whose first 3 digits are equal to the MODULE value on this form, and the corresponding TKGRP form must have INPUTSING and/or OUTPUTSING set to "ISUP7".

If MODULE is 193 (i.e., AM), and SOFTWARE RESOURCE is "CINDEX7" or "ENTRY7", and INCREMENTAL VALUE is a non-zero value, there must be at least one TRUNK form specified with a DEN, TEN, or NEN, and the corresponding TKGRP form must have INPUTSING and/or OUTPUTSING set to "ISUP7".

2.3 *SOFTWARE RESOURCE

Description: Enter the Software Resource.

Required Field.

Valid SOFTWARE RESOURCES Entries	
Entry	Description
ACRD	Auxiliary Call Record. Used in conjunction with the 5ESS Call Record and the OSPS Call Record to maintain call-related information for the life of an OSPS call.
ADB	Analog Data Block. This dynamic relation contains data used to keep track of an ISDN originated call for the Shared Analog member.
APB	Associated Process Block.
APBUF	Software Release: 5E10 and later. Applications Processors Memory Buffer.
APDU	Software Release: 5E10 and later. An SM loaded with the IDCU or ATS (Automatic Terminal Setup) packages, which is nominally based on the number of TR303 RTs present in the SM and the ATS software (which is a fixed number 60) and this incremental global parameter. This global parameter should be administered by ODA and TM triggers. It is not administered by RC. This count is recalculated during a retrofit. (See also, "MALLOC", "RTLB", and "RTMSGBUF".)
ASPBASE	A global parameter that tracks the current tuple count for the following data relations: Relation Owner for ASP (NS_IDX); Network Services Data Block for ASP (NSDB); Network Services Data Block for ASP Call Legs (NS_BILL).
ASPTP	Software Release: 5E13 and later. A global parameter that contains an SM's current tuple count for relation ASP_TP. It is verified during full initializations and updated as tuples are inserted via trigger functions. For more information, see Division 2, Section 4A301.
ATCALL	Software Release: 5E10 and later. Automatic Call Data for Message Services and Electronic Directory Service.
BRCSDB	BRCS Data Block linked to the DALB for BRCS specific data.
CBDB	Call Buildup Data Block.
CCSSTPDB	CCSSeTuP Data Block.
CFLNT	Call Forwarding Line Termination Data Block.
CFSCOP	Call Forwarding System Process Data Block.
CINDEX7	CCS7 Message Consolidation and Acknowledgement Handler CIC List Index Data Block.
CLDB	Call Leg Data Block.
COINOT	OSPS COIN Originating Treatment dynamic data.
CPLR	Coupler Data Block.
CQB	Circuit Queuing Block.
CRD	Call Record Data Block.

CVSTATE	Call Vectoring State.
DALB	D-Channel Application Linkage Block. This dynamic relation contains data to provide a means to route messages from a D-channel to the proper Terminal Process.
DBCND	CLID Calling Number Delivery temporary storage block. This relation is used as a temporary storage structure to store the last incoming calling DN (LICDN). By storing the LICDN, the terminal that has ICLID CND and performs a pickup will be able to display the number.
DISPDB	Display Data Block.
E911DB	E911 Data Block.
ENTRY7	CCS7 MCAH Table Entry Data Block.
FACMSG	Proprietary.
FRNAMA	Software Release: 5E14 and later. AIN Furnish AMA (Automatic Message Accounting) Information. SFID 517.
GPFTIME	Software Release: 5E12 and later. General purpose functional timer data blocks.
LSCMDB	Large Shared Call Model Data Block. This dynamic relation contains data used by the SCM (Shared Call Model). The SCM Data Block is linked to the APB of the terminal process which contains the controlling SCM.
MALLOC	Software Release: 5E10 and later. An SM loaded with the IDCU or ATS (Automatic Terminal Setup) packages, which is nominally based on the number of TR303 RTs present in the SM and the ATS software (which is a fixed number 80) and this incremental global parameter. This global parameter should be administered by ODA and TM triggers. It is not administered by RC. (See also, "APDU", "RTLB", and "RTMSGBUF".)
MDB	Model Data Block.
MSMWIDA	Software Release: 5E10 and later. Message Waiting Indicator Data.
OAOTDB	Software Release: 5E10 and later. Actions Originating Treatment Data Block. Used for incoming calls to OSPS.
ORIGINFO	Software Release: 5E16(2) and later. Supports the Call Transfer Custom Display Enhancement feature. See Division 2, Section 4A588 for information on this feature.
OSPCB	OSDS (Operating System for Distributed Switching) Process Control Block.
OSTCB	OSDS Timer Control Block.
PHDB	Path Data Block.
PHISTORY	Port status history. An IM relation that stores a port's history of out-of-service statuses whenever a port is out-of service for more than one reason. These statuses are called pending statuses.
PTRDB	Pointers to Data Blocks.
PUENTRY	Stores information about the Call Pickup queued call.
QRYDB	Contains data saved across transition strings for the QUERY model.
QVSTATE	Software Release: 5E11 and later. Per SM count of initialized ACD/BRCS queuing and vectoring state tuples. This entry supports the ACD/BRCS Interworking 11 feature. For more information on this feature, see Division 2, Section 4A121.
RTLB	Software Release: 5E10 and later. An SM loaded with the IDCU or ATS (Automatic Terminal Setup) packages
RTMSGBUF	Software Release: 5E10 and later. An SM loaded with the IDCU or ATS (Automatic Terminal Setup) packages
SCMDB	Shared Call Model Data Block. Contains data used by the SCM. The SCM Data Block is linked to the APB of the terminal process which contains the controlling SCM.
SDAP	Speed Dialing Auto-Provisioning Data Block.
SIPTBLK	Software Release: 5E16(2) FR 3 and later. Session Initiation Protocol for Telephony is blank.
SIPTMAP	Software Release: 5E16(2) FR 3 and later. Session Initiation Protocol for Telephony Mapping.
SRVOT	Listing Services and Quantum Call Data for OT and EIS Interface.
STPDB	Proprietary.
TATDB	Terminating Attempt Trigger Data Block.
TNINFO	Notification Information Data Block.

Data Rules:

APBUF:

For 5E10 and later, if "APBUF" is entered, and a non-zero INCREMENTAL VALUE, at least one DSLAP form must exist for each of the SREINCR forms where MODULE on the SREINCR form matches SM on the DSLAP form. In addition, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports Application Processors.

APDU:

If "APDU", "MALLOC", "RTLB" or "RTMSGBUF" (ISDN and TR303 IDCU applications) are entered and have a non-zero INCREMENTAL VALUE, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports ISDN and/or TR303 IDCU applications.

ASPBASE:

If "ASPBASE" or "TNINFO" is entered, and a non-zero INCREMENTAL VALUE is entered, "ASP OFC" must equal "SSP" or SERV SWITCH PT must equal "Y" on the OFCOPT form (5509 Record) and a DSAPP form (5537 Record) must exist with APPLIC set to "ASP" or "AINR0D1".

ASPTP:

For 5E13 and later, if "ASPTP" is entered and INCREMENTAL VALUE is not 0, then there must be one and only one DSAPP form with APPLIC equal "AINR0D1".

For 5E13 and later, on the SREINCR form, if SOFTWARE RESOURCE is "ASPTP" and INCREMENTAL VALUE is not 0, then ASP OFC must be "SSP" on the ASPOPT form.

For 5E13 and later, when the SREINCR form has SOFTWARE RESOURCE set to "ASPTP", and a non-zero INCREMENTAL VALUE, an SFSYS form must exist with SFID 126 ACT set to "Y".

ATCALL:

For 5E10 and later, when SREINCR forms have SOFTWARE RESOURCE set to "ATCALL", and a non-zero INCREMENTAL VALUE, at least one DSLUSR form must have an associated MLHLNFA or LINEFA form with either an EDS feature assigned, whose associated EDSFD form has AUTO CALL set to "Y", or an MSS feature assigned, whose associated MSFD form has AUTO CALL set to "Y" for each of the SREINCR forms where MODULE on the SREINCR form matches OE[1,3] on the DSLUSR form.

In addition, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports ISDN BRCS.

BRCSDDB:

For 5E10 and later, if SOFTWARE RESOURCE is set to "BRCSDDB", and a non-zero INCREMENTAL VALUE, the MODULE entry must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports ISDN BRCS.

CCSSTPDB:

For 5E11 and later, if MODULE is less than 193 on an SM and SOFTWARE RESOURCE is set to "CCSSTPDB", and a non-zero INCREMENTAL VALUE, there must be at least one TRUNK form specified with a DEN, TEN, or NEN whose first 3 digits are equal to the MODULE on the SREINCR form, and the corresponding TKGRP form must have INPULSING set to "ISUP7".

DISPDB:

For 5E10 and later, if SOFTWARE RESOURCE is set to "DISPDB", and a non-zero INCREMENTAL VALUE, the MODULE entry must have a corresponding EQIM form with the same SM value where the value entered

for CONFIGURATION supports ISDN BRCS.

FRNAMA:

If "FRNAMA" is entered and INCREMENTAL VALUE is not 0, ASP OFC on the ASPOPT form must be "SSP".

MALLOC:

"APDU", "MALLOC", "RTLB" or "RTMSGBUF" are used for ISDN and TR303 IDCU applications. If "APDU", "MALLOC", "RTLB" or "RTMSGBUF" are entered and have a non-zero INCREMENTAL VALUE, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports ISDN and/or TR303 IDCU applications.

MSMWIDA:

For 5E10 and later, when SREINCR forms have SOFTWARE RESOURCE set to "MSMWIDA", and a non-zero INCREMENTAL VALUE, at least one DSLAP form with ISVM set to "Y", must exist for each of the SREINCR forms where MODULE on the SREINCR form matches SM on the DSLAP form. In addition, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports Application Processors.

QVSTATE:

If "QVSTATE" is entered and has a non-zero INCREMENTAL VALUE, an SFSYS form must exist with SFID 121 ACT set to "Y".

RTLB and RTMSGBUF:

"APDU", "MALLOC", "RTLB" or "RTMSGBUF" are used for ISDN and TR303 IDCU applications. If "APDU", "MALLOC", "RTLB" or "RTMSGBUF" are entered and have a non-zero INCREMENTAL VALUE, MODULE on the SREINCR form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports ISDN and/or TR303 IDCU applications.

TATDB:

If SOFTWARE RESOURCE is set to "TATDB" and a non-zero INCREMENTAL VALUE, then an OFCOPT form must exist with ASP OFC is set to "SSP" or SERV SWITCH PT is set to "Y", and a DSAPP form must also exist with APPLIC set to "AINR0D1".

TNINFO:

If "TNINFO" (or "ASPBASE") is entered, and a non-zero INCREMENTAL VALUE is entered, "ASP OFC" must equal "SSP" or SERV SWITCH PT must equal "Y" on the OFCOPT form (5509 Record) and a DSAPP form (5537 Record) must exist with APPLIC set to "ASP" or "AINR0D1".

2.4 #INCREMENTAL VALUE

Description: This field is used to define the available data blocks for the software resource and module entered. Enter the resource quantity desired.

Required Field.

Valid Entries: 0 - 65535 (increments of 50)

Data Rules:

For 5E10 and later, a list of all the possible values for SOFTWARE RESOURCE field on SREINCR form where MODULE is not equal to 193 (on an SM), and the corresponding maximum allowed on the INCREMENTAL VALUE is shown below. The maximum may vary depending on the types of SWITCHING MODULE.

SM denotes those SREINCR forms where the associated EQIM form, found by matching SM to MODULE, have UNIT TYPE set to a value other than "SM2000". SM2000 denotes those SREINCR forms where the associated EQIM form have UNIT TYPE set to "SM2000".

MAXIMUM INCREMENTAL VALUES		
SOFTWARE RESOURCE	SM	SM2000
ACRD	8975	8975
ADB	16383	16383
APB	4093	0
APBUF	1023	1023
APDU	511	511
ASPBASE	32000	32000
ATCALL	256	256
BRCSDDB	32000	32000
CBDB	2047	2047
CCSSTPDB	4095	4095
CFLNT	200	1000
CFSCOP	250	8191
CINDX7	400	400
CLDB	30718	30718
COINOT	24192	24192
CPLR	65534	65534
CQB	320	320
CRD	32000	32000
CVSTATE	16383	16383
DALB	31999	31999
DBCND	4095	4095
DISPDB	31999	31999
E911DB	2047	2047
ENTRY7	250	5E14 and earlier: 2500 5E15 and later: 3500
FRNAMA	3200	3200
GPFTIME	21810	21810
LSCMDB	28800	28800
MALOC	2047	2047
MDB	65533	65533
MSMWIDA	1023	1023
OAOTDB	24192	24192
ORIGINFO	600	3000
OSPCB	5000	26000
OSTCB	1300	6765
PHDB	512	14848
PHISTORY	8191	8191
PTRDB	449	449
PUENTRY	2000	2000
QRYDB	449	449
QVSTATE	16383	16383
RTLB	511	511
RTMSGBUF	2047	2047
SCMDB	28800	28800
SDAP	32	32
SIPTBLK	0	64800
SIPTMAP	0	10795
SRVOT	24192	24192
TATDB	5E13 and earlier: 546 5E14 and later: 11382	5E13 and earlier: 546 5E14 and later: 11382
TNINFO	17111	17111

2.5 CURRENT TOTAL VALUE

Description: This is a Recent Change display-only field.

sreincr

5ESS Switch

(5547) OFFICE DATA ADMINISTRATION
SCREEN 1 OF 1 SRE INCREMENTAL GLOBAL PARAMETERS

*1. MODULE _____
*2. SOFTWARE RESOURCE _____
#3. INCREMENTAL VALUE _____

CURRENT TOTAL VALUE

▲ **WARNING:** This form should not be used to make changes to dynamic memory without first contacting your next level of Lucent Technologies support. Refer to the Administration and Engineering guidelines for SM resource utilization: SM resource overload control; software engineering resources.

Figure 1 SAMPLE SREINCR FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 5AX: 5548 RECORD SLIM OE LIST - SLEN

1. GENERAL

The SLEN form (5548 Record) is available with the 5E10 and later Software Releases. It is used to define the range of subscriber office equipment numbers that are to be tested by the SLIM2 (Subscriber Line and Instrument Measurements-2) feature, executed in the "Routine Mode".

The "Routine Mode" of the SLIM2 feature is a secured feature and therefore SFID ACT 230 must be "Y" on the SFSYS form (5713-1 Record).

For more information on SLIM2, see Division 2, Section 4A230.

1.1 Recent Change View

The corresponding Recent Change View for this form is 14.13.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *OE LIST ID

Description: Enter the OE LIST ID.

Required Field.

Valid Entries: 1 - 8

2.3 *ENTRY NUMBER

Description: Enter the entry number.

Required Field.

Valid Entries: 1 - 60

2.4 #START OE

Description: Enter the originating equipment type.

Required Field.

Valid START OE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TR-303 on DNU-S (i.e., INEN).
C	The TN is associated with ISLU Line Card Equipment Number and Number field must contain an 8-digit equipment number.
E	Software Release: 5E11 and later. The TN is associated with an AIU (Access Interface Unit).
G	The TN is associated with an analog IDCU Equipment Number and Number field must contain an 11-digit equipment number (GEN) for a remote terminal or a PUB43801.

L	The TN is associated with an analog-type Line Equipment Number and Number field must contain a 10-digit LEN.
S	The TN is associated with SLC-96 Equipment Number and Number field must contain an 8-digit SLEN.

2.5 END OE

Description: Enter the ending originating equipment type.

Required Field.

Valid Entries: (see table above)

Data Rules:

When END OE is specified, the START OE must be specified.

The END OE value must equal the START OE value.

```

sllen          5ESS Switch          _
(5548)         OFFICE DATA ADMINISTRATION
                SLIM OE LIST

```

```

* 1. OE LIST ID  _
* 2. ENTRY NUMBER ____
# 3. START OE    _ _____
    6. END OE     _ _____

```

Figure 1 SAMPLE SLEN FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5AY: 5549 RECORD SLIM TEST SET - SLTSET

1. GENERAL

The SLTSET form (5549 Record) is available with the 5E10 and later Software Releases. It is used to define the types of SLIM (Subscriber Line and Instrument Measurements) tests that are to be performed during a SLIM2 test session, executed in the "Routine Mode". Several sets can be defined with each set having different tests associated with it.

The "Routine Mode" of the SLIM2 feature is a secured feature and therefore SFID ACT 230 must be "Y" on the SFSYS form (5713-1 Record).

For more information on SLIM2, see Division 2, Section 4A230.

1.1 Recent Change View

The corresponding Recent Change View for this form is 14.14.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *TEST SET ID

Description: Enter the identification number for the test set.

Required Field.

Valid Entries: 1 - 8

FOREIGN VOLTAGE

The following fields (Section 2.3 - Section 2.8) define what foreign voltage tests are performed.

2.3 T01ONV

Description: The AC tip to ground is a non-entry field which is defaulted to "Y".

2.4 T02ONV

Description: The AC ring to ground is a non-entry field which is defaulted to "Y".

2.5 T03ONV

Description: The AC tip to ring is a non-entry field which is defaulted to "Y".

2.6 T04ONV

Description: The DC tip to ground is a non-entry field which is defaulted to "Y".

2.7 T05ONV

Description: The DC ring to ground is a non-entry field which is defaulted to "Y".

2.8 T06ONV

Description: The DC tip to ring is a non-entry field which is defaulted to "Y".

INSULATION RESISTANCE

The following fields (Section 2.9 - Section 2.11) define what insulation resistance tests are performed.

2.9 T01ONR

Description: Execute insulation resistance on hook tip to ground test?

Required Field.

Default: N

Valid Entries: Y, N

2.10 T02ONR

Description: Execute insulation resistance on hook ring to ground test?

Required Field.

Default: N

Valid Entries: Y, N

2.11 T03ONR

Description: Execute insulation resistance on hook tip to ring test?

Required Field.

Default: N

Valid Entries: Y, N

CAPACITANCE

The following fields (Section 2.12 - Section 2.14) define what capacitance tests are performed.

2.12 T01ONC

Description: Execute capacitance on hook tip to ground test?

Required Field.

Default: N

Valid Entries: Y, N

2.13 T02ONC

Description: Execute capacitance on hook ring to ground test?

Required Field.

Default: N

Valid Entries: Y, N

2.14 T03ONC

Description: Execute capacitance on hook tip to ring test?

Required Field.

Default: N

Valid Entries: Y, N

```

sltset                                5ESS Switch                —
(5549)                                OFFICE DATA ADMINISTRATION
                                      SLIM TEST SET

* 1. TEST SET ID                    —

      FOREIGN VOLTAGE                                INSULATION RESISTANCE
2. T01ONV Y (AC tip to grnd)          8. T01ONR N (tip to grnd)
3. T02ONV Y (AC ring to grnd)        9. T02ONR N (ring to grnd)
4. T03ONV Y (AC tip to ring)        10. T03ONR N (tip to ring)
5. T04ONV Y (DC tip to grnd)
6. T05ONV Y (DC ring to grnd)
7. T06ONV Y (DC tip to ring)

                                      CAPACITANCE
                                      11. T01ONC N (tip to grnd)
                                      12. T02ONC N (ring to grnd)
                                      13. T03ONC N (tip to ring)

```

Figure 1 SAMPLE SLTSET FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5AZ: 5554-1/2 RECORD SLIM THRESHOLD LIST - SLTHRS

1. GENERAL

The SLTHRS form (5554-1/2 Record) is available with the 5E10 and later Software Releases. It supports the SLIM2 (Subscriber Line and Instrument Measurement-2) feature. It is used to define threshold values for the various tests performed during SLIM2 testing to determine the tolerance for pass/fail indications.

1.1 Routine and Operator Modes

The threshold values which are available to an SM (Switching Module) are determined by whether testing is executed in "Routine Mode" or "Operator Mode". The "Routine Mode" of SLIM2 is a secured feature which allows threshold values to be set in a range of values, outside of the initial default values. In order to execute testing using the Routine Mode, SFID ACT 230 on the SFSYS form (5713-1 Record) must be set to "Y".

The "Operator Mode" of SLIM2 is not a secured feature and allows only the default values to be used during SLIM2 testing. To execute SLIM2 in the Operator Mode, this is the only SLIM2-related view which can be entered; all others are blocked.

For more information on SLIM2, see Division 2, Section 4A230.

1.2 Recent Change View

The corresponding Recent Change View for this form is 14.15.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *THRESHOLD LIST ID

Description: Enter the identification number for the Threshold List.

Required Field.

Default: 0

Valid Entries: 0 - 8

Data Rules:

A SLTHRS form with a THRESHOLD LIST ID of 0 must always exist for SLIM2 OPERATOR mode, that is, a THRESHOLD ID of 0 is required with all threshold values set to their defaults.

FOREIGN VOLTAGE TESTS

The following fields (Section 2.3 - Section 2.14) define the low and high thresholds for foreign voltage tests.

2.3 LOW T01ONVL

Description: Enter the desired threshold value for the AC tip to ground in volts.

Required Field.

Default: 0

Valid Entries: 0 - 500

Data Rules:

T01ONVL must be less than or equal to T01ONVH.

2.4 HIGH T01ONVH

Description: Enter the desired threshold value for the AC tip to ground in volts.

Required Field.

Default: 7

Valid Entries: 0 - 500

2.5 LOW T02ONVL

Description: Enter the desired threshold value for the AC ring to ground in volts.

Required Field.

Default: 0

Valid Entries: 0 - 500

Data Rules:

T02ONVL must be less than or equal to T02ONVH.

2.6 HIGH T02ONVH

Description: Enter the desired threshold value for the AC ring to ground in volts.

Required Field.

Default: 7

Valid Entries: 0 - 500

2.7 LOW T03ONVL

Description: Enter the desired threshold value for the AC tip to ring in volts.

Required Field.

Default: 0

Valid Entries: 0 - 500

Data Rules:

T03ONVL must be less than or equal to T03ONVH.

2.8 HIGH T03ONVH

Description: Enter the desired threshold value for the AC tip to ring in volts.

Required Field.

Default: 7

Valid Entries: 0 - 500

2.9 LOW T04ONVL

Description: Enter the desired threshold value for the DC tip to ground in volts.

Required Field.

Default: -50

Valid Entries: -999 - 999

Data Rules:

T04ONVL must be less than or equal to T04ONVH.

2.10 HIGH T04ONVH

Description: Enter the desired threshold value for the DC tip to ground in volts.

Required Field.

Default: 100

Valid Entries: -999 - 999

2.11 LOW T05ONVL

Description: Enter the desired threshold value for the DC ring to ground in volts.

Required Field.

Default: -50

Valid Entries: -999 - 999

Data Rules:

T05ONVL must be less than or equal to T05ONVH.

2.12 HIGH T05ONVH

Description: Enter the desired threshold value for the DC ring to ground in volts.

Required Field.

Default: 100

Valid Entries: -999 - 999

2.13 LOW T06ONVL Required Field.

Description: Enter the desired threshold value for the DC tip to ring in volts.

Data Rules:

T06ONVL must be less than or equal to T06ONVH.

2.14 HIGH T06ONVH Required Field.

Description: Enter the desired threshold value for the DC tip to ring in volts.

INSULATION RESISTANCE TESTS

The following fields (Section 2.15 - Section 2.22) define the low and high thresholds for the Insulation Resistance Tests.

2.15 LOW T01ONRL

Description: Enter the desired threshold value for the tip to ground in kilohms.

Required Field.

Default: 30

Valid Entries: 1 - 16000

Data Rules:

T01ONRL must be less than or equal to T01ONRH.

2.16 HIGH T01ONRH

Description: Enter the desired threshold value for the tip to ground in kilohms.

Required Field.

Default: 50

Valid Entries: 1 - 16000

2.17 LOW T02ONRL

Description: Enter the desired threshold value for the ring to ground in kilohms.

Required Field.

Default: 30

Valid Entries: 1 - 16000

Data Rules:

T02ONRL must be less than or equal to T02ONRH.

2.18 HIGH T02ONRH

Description: Enter the desired threshold value for the ring to ground in kilohms.

Required Field.

Default: 50

Valid Entries: 1 - 16000

2.19 LOW T03ONRL

Description: Enter the desired threshold value for the tip to ring in kilohms.

Required Field.

Default: 30

Valid Entries: 1 - 16000

Data Rules:

T03ONRL must be less than or equal to T03ONRH.

2.20 HIGH T03ONRH

Description: Enter the desired threshold value for the tip to ring in kilohms.

Required Field.

Default: 50

Valid Entries: 1 - 16000

2.21 LOW T04ONRL

Description: Enter the desired threshold value for the monitor for short in kilohms.

Required Field.

Default: 35

Valid Entries: 35 - 65

Data Rules:

T04ONRL must be less than or equal to T04ONRH.

2.22 HIGH T04ONRH

Description: Enter the desired threshold value for the monitor for short in kilohms.

Required Field.

Default: 65

Valid Entries: 35 - 65

CAPACITANCE TESTS

The following fields (Section 2.23 - Section 2.28) define the low and high threshold values for Capacitance Tests.

2.23 LOW T01ONCL

Description: Enter the desired threshold value for the tip to ground in nanofarads in increments of 10.

Required Field.

Default: 0

Valid Entries: 0 - 6000 (increments of 10)

Data Rules:

T01ONCL must be less than or equal to T01ONCH.

2.24 HIGH T01ONCH

Description: Enter the desired threshold value for the tip to ground in nanofarads in increments of 10.

Required Field.

Default: 500

Valid Entries: 0 - 6000 (increments of 10)

2.25 LOW T02ONCL

Description: Enter the desired threshold value for the ring to ground in nanofarads in increments of 10.

Required Field.

Default: 0

Valid Entries: 0 - 6000 (increments of 10)

Data Rules:

T02ONCL must be less than or equal to T02ONCH.

2.26 HIGH T02ONCH

Description: Enter the desired threshold value for the ring to ground in nanofarads in increments of 10.

Required Field.

Default: 500

Valid Entries: 0 - 6000 (increments of 10)

2.27 LOW T03ONCL

Description: Enter the desired threshold value for the tip to ring in nanofarads in increments of 10.

Required Field.

Default: 0

Valid Entries: 0 - 6000 (increments of 10)

Data Rules:

T03ONCL must be less than or equal to T03ONCH.

2.28 HIGH T03ONCH

Description: Enter the desired threshold value for the tip to ring in nanofarads in increments of 10.

Required Field.

Default: 3000

Valid Entries: 0 - 6000 (increments of 10)

OFF-HOOK TESTS

The following fields (Section 2.29 - Section 2.42) define the low and high threshold values for the Off-Hook Tests.

2.29 LOW T01OFL

Description: Enter the desired threshold value for the loop resistance in ohms.

Required Field.

Default: 150

Valid Entries: 0 - 3000

Data Rules:

T01ONFL must be less than or equal to T01ONFH.

2.30 HIGH T01OFH

Description: Enter the desired threshold value for the loop resistance in ohms.

Required Field.

Default: 2000

Valid Entries: 0 - 3000

2.31 LOW T02OFL

Description: Enter the desired threshold value for the dial speed in tenths of a hertz.

Required Field.

Default: 80

Valid Entries: 50 - 250 (in tenths of a hertz)

Data Rules:

T02ONFL must be less than or equal to T02ONFH.

2.32 HIGH T02OFH

Description: Enter the desired threshold value for the dial speed in tenths of a hertz.

Required Field.

Default: 120

Valid Entries: 50 - 250 (in tenths of a hertz)

2.33 LOW T03OFL

Description: Enter the desired threshold value for the dial pulse ratio percentage.

Required Field.

Default: 50

Valid Entries: 5 - 95

Data Rules:

T03ONFL must be less than or equal to T03ONFH.

2.34 HIGH T03OFH

Description: Enter the desired threshold value for the dial pulse ratio percentage.

Required Field.

Default: 70

Valid Entries: 5 - 95

2.35 LOW T04OFL

Description: Enter the desired threshold value for the key tone level in dBm.

Required Field.

Default: -20

Valid Entries: -26 - 3

Data Rules:

T04ONFL must be less than or equal to T03ONFH.

2.36 HIGH T04OFH

Description: Enter the desired threshold value for the key tone level in dBm.

Required Field.

Default: 0

Valid Entries: -26 - 3

2.37 LOW T05OFL

Description: Enter the desired threshold value for the key tone difference in dBm.

Required Field.

Default: -11

Valid Entries: -26 - 26

Data Rules:

T05ONFL must be less than or equal to T05ONFH.

2.38 HIGH T05OFH

Description: Enter the desired threshold value for the key tone difference in dBm.

Required Field.

Default: 11

Valid Entries: -26 - 26

2.39 LOW T06OFL

Description: Enter the desired threshold value for the key tone frequency in tenths of a percent.

Required Field.

Default: 982

Valid Entries: 900 - 1100 (in tenths of a percent)

Data Rules:

T06ONFL must be less than or equal to T06ONFH.

2.40 HIGH T06OFH

Description: Enter the desired threshold value for the key tone frequency in tenths of a percent.

Required Field.

Default: 1018

Valid Entries: 900 - 1100 (in tenths of a percent)

2.41 LOW T07OFL

Description: Enter the desired threshold value for the flash hook in milliseconds.

Required Field.

Default: 200

Valid Entries: 40 - 1500

Data Rules:

T07ONFL must be less than or equal to T03ONFH.

2.42 HIGH T07OFH

Description: Enter the desired threshold value for the flash hook in milliseconds.

Required Field.

Default: 1100

Valid Entries: 40 - 1500

SCREEN 1 of 3

slthrs

(5554)

5ESS Switch

OFFICE DATA ADMINISTRATION

SLIM THRESHOLD LIST

*1. THRESHOLD LIST ID 0

FOREIGN VOLTAGE TESTS

LOW	HIGH	
2. T01ONVL 000	3. T01ONVH 005	(AC tip to grnd in volts)
4. T02ONVL 000	5. T02ONVH 005	(AC ring to grnd in volts)
6. T03ONVL 000	7. T03ONVH 005	(AC tip to ring in volts)
8. T04ONVL -050	9. T04ONVH 0000	(DC tip to grnd in volts)
10. T05ONVL -050	11. T05ONVH 0000	(DC ring to grnd in volts)
12. T06ONVL -055	13. T06ONVH 0055	(DC tip to ring in volts)

SCREEN 2 OF 3

slthrs

(5554)

5ESS Switch

OFFICE DATA ADMINISTRATION

SLIM THRESHOLD LIST

INSULATION RESISTANCE TESTS

LOW	HIGH

14. T01ONRL 00030	15. T01ONRH 00050 (tip to grnd in kilohms)
16. T02ONRL 00030	17. T02ONRH 00050 (ring to grnd in kilohms)
18. T03ONRL 00030	19. T03ONRH 00050 (tip to ring in kilohms)
20. T04ONRL 35	21. T04ONRH 65 (monitor for short in kilohms)

CAPACITANCE TESTS

LOW

HIGH

22. T01ONCL 0010	23. T01ONCH 0500 (tip to grnd in nanofarads)
24. T02ONCL 0010	25. T02ONCH 0500 (ring to grnd in nanofarads)
26. T03ONCL 0010	27. T03ONCH 3000 (tip to ring in nanofarads)

SCREEN 3 OF 3
slthrs
(5554)

5ESS Switch —
OFFICE DATA ADMINISTRATION
SLIM THRESHOLD LIST

OFF-HOOK TESTS

LOW

HIGH

28. T01OFL 0150	29. T01OFH 2000 (Loop Resistance in Ohms)
30. T02OFL 080	31. T02OFH 120 (Dial Speed in tenths of Hz.)
32. T03OFL 50	33. T03OFH 70 (Dial Pulse Ratio Percentage)
34. T04OFL -20	35. T04OFH 000 (Key tone level in dBm)
36. T05OFL -11	37. T05OFH 011 (Key tone difference in dBm)
38. T06OFL 0982	39. T06OFH 1018 (Key tone frequency tenths of percent)
40. T07OFL 080	41. T07OFH 200 (Flash Hook)

Figure 1 SAMPLE SLTHRS FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5BA: 5555 RECORD SLIM TEST JOB - SLJOB

1. GENERAL

The SLJOB form (5555 Record) is available with the 5E10 and later Software Releases. It is used to specify test jobs for scheduled SLIM2 (Subscriber Line and Instrument Measurements-2) test sessions, executed in the "Routine Mode". This form relates test sets, threshold lists, equipment numbers, etc., to be tested and the types of lines to be allowed to be tested. Up to 240 jobs can be defined to test subscriber line and trunks.

The "Routine Mode" of the SLIM2 feature is a secured feature and therefore SFID ACT 230 must be "Y" on the SFSYS form (5713-1 Record).

For more information on SLIM2, see Division 2, Section 4A230.

1.1 Recent Change View

The corresponding Recent Change View for this form is 14.16.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *JOB ID

Description: Enter the JOB ID.

Required Field.

Valid Entries: 1 - 240

2.3 #TEST SET ID

Description: Enter the Test Set ID number.

Required Field.

Valid Entries: 1 - 8

2.4 THRESHOLD LIST ID

Description: Enter the Threshold List ID.

Required Field.

Default: 0

Valid Entries: 0 - 8

2.5 #START OE

Description: Enter the originating equipment type and number.

Required Field.

I

Valid START OE Entries	
Entry	Definition
A	Software Release: 5E12 and later. TR-303 on DNU-S (i.e., INEN).
C	The TN is associated with ISLU Line Card Equipment Number and Number field must contain an 8-digit equipment number.
E	Software Release: 5E11 and later: The TN is associated with an AIU (Access Interface Unit).
G	The TN is associated with an analog IDCUC Equipment Number and Number field must contain an 11-digit equipment number (GEN) for a remote terminal or a PUB43801.
L	The TN is associated with an analog-type Line Equipment Number and Number field must contain a 10-digit LEN.
S	The TN is associated with SLC-96 Equipment Number and Number field must contain an 8-digit SLEN.

Data Rules:

If START OE is entered, OE LIST ID must be blank.

2.6 NUMBER

Description: The Office Equipment Number.

Valid Entries: An 8-, 10- or 11-digit number in one of the following formats.

If DSL OE is set to "A", the INEN Equipment Number consists of:

TR-303 on DNU-S, Type A			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	DNUS	X	0-7
Remote Terminal	RT	XX	01-99
Line	LINE	XXXX	0001-2048

If OE TYPE is "C", this ISLU Line Card Equipment Number consists of:

OE NUMBER, TYPE C			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
Line Group Controller	LGC	XX	00 - 15
Line Card	LC	XX	00 - 31

Data Rules:

The ISLU Line Card must be defined on an ISLULC form (5942 Record) with EQST set to "O" and TYPE set to "ZLC".

If OE TYPE is "E", this AIU Equipment Number consists of:

OE NUMBER, TYPE E			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	AIU	XXX	000 - 042
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 31
			Coin
			00 - 15

If OE TYPE is "G", this IDCUC Equipment Number residing on a PUB43801 consists of:

1

OE NUMBER, TYPE G - PUB43801

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
			(5E9(1)and earlier)
		XXX	000 - 042
			(5E9(2) and later)
DS1	DS1	XX	51 - 90
Line	LINE	XXXX	0001 - 0024

OE NUMBER, TYPE G - Remote Terminal

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Unit Number	IDCU	X	0 - 7
			(5E9(1)and earlier)
		XXX	000 - 042
			(5E9(2) and later)
DS1	DS1	XX	51 - 90
Line	LINE	XXXX	0001 - 0024

If OE TYPE is "L", this Line Unit Equipment Number consists of:

OE NUMBER, TYPE L

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Line Unit	LU	X	0 - 7
			(5E9(1)and earlier)
		XXX	000 - 042
			(5E9(2) and later)
Concentrator	CONC	X	0 - 9
Switch Group	SWG	X	0 - 1
Switch	SW	X	0 - 7
Level	LEV	X	0 - 3

If OE TYPE is "S", this SLC Equipment Number consists of:

OE NUMBER, TYPE S

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Digital Carrier Line Unit	DCLU	X	
Remote Terminal	RT	XX	01 - 06
Line	LINE	XX	01 - 96

2.7 END OE

Description: Enter the ending originating equipment type and number.

Required Field.

Valid Entries: (see tables above)

Data Rules:

The END OE type must be the same as the START OE type.

The END OE SM value must equal the START OE SM value.

When END OE is specified, the START OE must be specified.

2.8 OE LIST ID

Description: Enter the Test Set ID number.

Required Field.

Valid Entries: 1 - 8

Data Rules:

If OE LIST ID is entered, START OE must be blank.

2.9 OOS ALLOWED

Description: Do you want to test out of service lines within a given OE range?

Required Field.

Default: N

Valid Entries: Y, N

2.10 PBX ALLOWED

Description: Do you want to test private branch exchange lines within a given OE range?

Required Field.

Default: Y

Valid Entries: Y, N

```

sljob                      5ESS Switch      —
(5555)                   OFFICE DATA ADMINISTRATION
                           SLIM TEST JOB

*1. JOB ID                _____
#2. TEST SET ID           _
 3. THRESHOLD LIST ID 0
 4. START OE             _ _____
 7. END OE               _ _____
10. OE LIST ID           _
11. OOS ALLOWED          N
12. PBX ALLOWED          Y

```

Figure 1 SAMPLE SLJOB FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5BB: 5556 RECORD SLIM TEST SESSION - SLSESS

1. GENERAL

The SLSESS form (5556 Record) is available with the 5E10 and later Software Releases. It supports the SLIM2 (Subscriber Line and Instrument Measurements-2) feature, executed in the "Routine Mode". The SLESS form is used to define the schedule that test jobs will be executed. Up to six different jobs can be scheduled, but the actual number of jobs that can be executed is dependent upon the number of SLIM devices that exist and the quantity of OEs and tests assigned to each job.

The "Routine Mode" of the SLIM2 feature is a secured feature and therefore SFID ACT 230 must be "Y" on the SFSYS form (5713-1 Record).

For more information on the SLIM2 feature, see Division 2, Section 4A230.

1.1 Recent Change View

The corresponding Recent Change View for this form is 14.17.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *TEST SESSION ID

Description: Enter the identification number of the test session.

Required Field.

Valid Entries: 1 - 40

2.3 #TEST JOB 1

Description: Enter the number for test job 1.

Required Field.

Valid Entries: 1 - 240

2.4 TEST JOB 2

Description: Enter the number for test job 2.

Valid Entries: 1 - 240

2.5 TEST JOB 3

Description: Enter the number for test job 3.

Valid Entries: 1 - 240

2.6 TEST JOB 4

Description: Enter the number for test job 4.

Valid Entries: 1 - 240

2.7 TEST JOB 5

Description: Enter the number for test job 5.

Valid Entries: 1 - 240

2.8 TEST JOB 6

Description: Enter the number for test job 6.

Valid Entries: 1 - 240

2.9 START DATE

Description: Enter the date to start the test session.

Valid Entries: MMDDYY

Data Rules:

If START DATE is known, START TIME and STOP TIME must also be known.

If START DATE is unknown, START TIME and STOP TIME must also be unknown.

2.10 START TIME

Description: Enter the time to start the test session, in military time.

Valid Entries: HH:00-23; MM:00-59

2.11 STOP TIME

Description: Enter the time to stop the test session, in military (24 hour) time.

Valid Entries: HH:00-23; MM:00-59

2.12 PERIODICITY

Description: Enter the test session periodicity.

Required Field.

Default: ONCE

Valid Entries:

Valid PERIODICITY Entries	
Entry	Definition
O	Once.
D	Daily.
W	Weekly.
M	Monthly.

slsess
(5556)

5ESS Switch
OFFICE DATA ADMINISTRATION
SLIM TEST SESSION

*1. TEST SESSION ID ____

#2. TEST JOB 1	_____
3. TEST JOB 2	_____
4. TEST JOB 3	_____
5. TEST JOB 4	_____
6. TEST JOB 5	_____
7. TEST JOB 6	_____
8. START DATE	_____
9. START TIME	_____
10. STOP TIME	_____
11. PERIODICITY	ONCE

Figure 1 SAMPLE SLSESS FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5BC: 5557 RECORD METALLIC COMPENSATION VALUES - MTBCOMP

1. GENERAL

The MTBCOMP form (5557 Record) is available with the 5E10 and later Software Releases. It is used to define the SLIM2 (Subscriber Line and Instrument Measurements-2) metallic testing compensation values. The SLIM2 feature operates in either the "Routine Mode" or "Operator Mode". The Routine Mode is a secured feature and therefore SFID ACT 230 must be "Y" on the SFSYS form (5713-1 Record) to activate Routine Mode. When this form is defined, there must be a corresponding entry where MTBCOMP SM, UNIT TYPE, and UNIT NO have a match on one of the following equipment forms:

Form Name	Record Number	SM	UNIT TYPE	UNIT NO
EQRISLU	5732	IM	RISLU	0 - 104
EQISLU	5731	IM	(multiple unit types)	0 - 104
EQLU	5710	IM	(multiple unit types)	0 - 104
EQAIU	5745	SM	(multiple unit types)	0 - 104
EQDNUS	5855	SM	DNUS	0 - 104
EQDLCU	5809	IM	DCLU	0 - 104
EQTU	5720	IM	SN100	0 - 104
EQIDCU	5846	SM	IDCU	0 - 104

For more information on SLIM2, see Division 2, Section 4A230.

1.1 Recent Change View

There is no corresponding Recent Change View for this form as once initially defined these values can only be changed via ODA (Office Data Administration).

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *SM

Description: Enter the Switching Module number.

Required Field.

2.3 *UNIT TYPE

Description: Enter the type of unit.

Required Field.

Valid LINE UNIT TYPE Entries	
Entry	Definition
4AB1	2-shelf Model 1 Line Unit.
4AC1	2-shelf Model 2 Line Unit.
4AD1	2-Shelf Model 3 Line Unit. Provides a 10:1 concentration ratio.
ISLU	Integrated Services Line Unit.
ISLU2	Integrated Services Line Unit 2.
RISLU	Remote Integrated Services Line Unit.
IDCU	Integrated Digital Carrier Unit.
DCLU	Digital Carrier Line Unit.

SN100	Trunk Unit.
AIU	Access Interface Unit

2.4 *UNIT NUMBER

Description: Enter the Unit Number.

Software Release: 5E12 and later

Required Field.

Valid Entries: 0 - 104

2.5 LOOPRES

Description: This field was edited for spacing (readability) in 5E12. See LOOP RES below.

2.6 LOOP RES

Description: Enter the loop resistance value in ohms.

Valid Entries: 0 - 8000

Default Value:

- 5E12 and later: 0

Data Rules:

LOOPRES must be 0 for UNIT TYPEs of "4AD1", "4AN1", "4AC1", "4AB1", "ISLU", "SN100", or "AIU".

2.7 AB2ECAP

Description: This field was edited for spacing (readability) in 5E12. See AB2E CAP below.

2.8 AB2E CAP

Description: Enter the tip to ring leg to ground in nanofarads.

Valid Entries: 0 - 6000 (in increments of 10)

Data Rules:

AB2ECAP must be 110 for UNIT TYPEs of "4AD1", "4AN1", "4AC1", "4AB1", "ISLU", "SN100", or "AIU".

2.9 A2BCAP

Description: This field was edited for spacing (readability) in 5E12. See A2B CAP below.

2.10 A2B CAP

Description: Enter the tip to ring capacitance in nanofarads.

Valid Entries: 0 - 6000 (in increments of 10)

Default Value:

- 5E12 and later: 0

Data Rules:

AB2ECAP must be 0 for UNIT TYPEs of "4AD1", "4AN1", "4AC1", "4AB1", "ISLU", "SN100", or "AIU".

2.11 LEAKT2G

Description: For 5E12 and later, this field was renamed to LEAK T2G. See LEAK A2E for usage information.

2.12 LEAK A2E

Description: Enter the tip leg to ground leakage resistance in kilo-ohms.

Valid Entries: -1 - 50000000

Default value:

- 5E12 and later: 500000000

2.13 LEAKR2G

Description: For 5E12 and later, this field was renamed to LEAKB 2E. See LEAKB 2E for usage information.

2.14 LEAKB 2E

Description: Enter the ring leg to ground leakage resistance in kilo-ohms.

Valid Entries: -1 - 50000000

Default value:

- 5E12 and later: 500000000

2.15 LEAKT2R

Description: For 5E12 and later, this field was renamed to LEAKA 2B. See LEAKA 2B for usage information.

2.16 LEAKA 2B

Description: Enter the tip leg to ring leakage resistance in kilo-ohms.

Valid Entries: -1 - 50000000

Default value:

- 5E12 and later: 500000000

2.17 FREQLOSS

Description: This field name was edited for spacing (readability) in 5E12. See FREQ LOSS below.

2.18 FREQ LOSS

Description: Enter the frequency loss in kHz.

Valid Entries: 0 - 1000000

mtbcomp
(5557)

5ESS Switch
OFFICE DATA ADMINISTRATION
METALLIC COMPENSATION VALUES

* 1. UNIT TYPE

2. LOOPRES _____ (Loop resistance in Ohms)

- 3. AB2ECAP _____ (Tip to ring leg to ground capacitance in nanofarads)
- 4. A2BCAP _____ (Tip to ring capacitance in nanofarads)
- 5. LEAKT2G _____ (Tip leg to grnd leakage resistance in kilo-ohms)
- 6. LEAKR2G _____ (Ring leg to grnd leakage resistance in kilo-ohms)
- 7. LEAKT2R _____ (Tip leg to ring leg leakage resistance in kilo-ohms)
- 8. FREQLOSS _____ (Frequency loss in kHz)

Figure 1 SAMPLE MTBCOMP FORM 5E10 SOFTWARE RELEASE

OFFICE DATA ADMINISTRATION

(5557) SLIM METALLIC TESTING COMPENSATION VALUES

- *1. SM _____
- *2. UNIT TYPE _____
- *3. UNIT NO _____
- 4. LOOP RES 0
- 5. AB2E CAP _____
- 6. A2B CAP 0
- 7. LEAK A2E 50000000
- 8. LEAKB 2E 50000000
- 9. LEAKA 2B 50000000
- 10. FREQ LOSS 0

Figure 2 SAMPLE MTBCOMP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BD: 5560 RECORD

AUTOMATIC NUMBER IDENTIFICATION SWITCHING MODULE FORM - ANIMOD

1. GENERAL

The 5560 Record is applicable to 5E10 and later Software Releases and is used to define the SM (Switch Module) which contains Outbound Services data for the given ANI (Automatic Number Identification). This form supports the TDX (Toll Digital Exchange) Special Feature in a LDP (Long Distance Platform) office.

The TDX ANI (Automatic Number Identification) Table Processing feature is part of the Long Distance Platform Feature set. See Div. 2 Sec 4A165 (Toll Digital Exchange Basic Call Processing For Toll 5ESS Switch) for details.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.50

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * NPA

Description: The NPA field is used to specify the Numbering Plan Area code.

Required Field.

Valid Entries: 200 - 999.

2.3 * NXX

Description: The NXX field is used to specify the Office code associated with this NPA. Enter the NPA portion of the ANI.

Required Field.

Valid Entries: 000 - 999.

2.4 # SM

Description: The SM field is used to specify the switching module where the ANI Table resides for this NPA and NXX. If the SM field is left blank, an SM is automatically selected. Subsequent Recent Change inserts with SM set to blank will cause RC to select the next operational SM in the office, in order to distribute the ANI Table equally across all SMs.

Valid Entries: 1 - 192

Data Rules:

Each value of SM entered on the ANIMOD form must be defined on an EQIM form with EQSTATUS equal to "O".

```
animod                                5ESS Switch                —
(5560)                                OFFICE DATA ADMINISTRATION
                                      AUTOMATIC NUMBER IDENTIFICATION SWITCHING MODULE
```

*1. NPA _____
*2. NXX _____
#3. SM _____

Figure 1 SAMPLE ANIMOD FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 5BE: 5561 RECORD AUTOMATIC NUMBER IDENTIFICATION TABLE - ANITBL

1. GENERAL

The 5561 Record is applicable to 5E12 and earlier Software Releases. For 5E13 and later this form is split into the ANITABLE and LDPINDEX forms. For 5E13 the 5561 Record will remain for retrofit purposes. See Div. 2, Sec. 4A165 for details.

The Automatic Number Identification Table form contains the switch - based ANI (Automatic Number Identification) table. The ANI table contains ANI's designating special treatment when a match occurs with an ANI associated with an incoming TDX (Toll Digital Exchange) Call based on the option set, which is defined on this form.

This form supports the TDX (Toll Digital Exchange) ANI Table Processing Feature. This is a secured feature with SFID 235.

The TDX ANI (Automatic Number Identification) Table Processing feature is part of the LDP (Long Distance Platform) Feature set. See Div. 2 Sec. 4A165 (Toll Digital Exchange Basic Call Processing For Toll 5ESS Switch) for details.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.51

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the Numbering Plan Area code.

Required Field.

Valid Entries: 200 - 999, or 000 for default ANI table entry.

Data Rules:

When NPA equals 000, NXX must be 000 and LINE must be 0000.

When NPA equals 000, NXX equals 000 and LINE equals 0000, then DAS must be greater than 0.

When the NPA, NXX, LINE and DAS fields are entered on the ANITBL form a DAS form must be defined as a DIGIT ANALYSIS SELECTOR value with a PREFIX/FEATURE DIT value entered (e.g., Line DAS).

When the NPA, NXX, LINE and DAS fields are entered on the ANITBL form, and the DAS field is defined as the DIGIT ANALYSIS SELECTOR on a DAS form, the value of LOCAL DIT for LINE DAS on the corresponding DAS form must be entered. Also LOCAL DIT must be defined as LDIT on the corresponding SMLDIT form for every operational SM in the office. This must be accomplished by entering an SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the LIST OF SWITCHING MODULES.

When the NPA and NXX have been assigned on the ANITBL form, they must also be defined on an ANIMOD form.

When the NPA, NXX, LINE and TRIG NBR fields are entered on the ANITBL form, the TRIG NBR must be defined on a corresponding NSTRIG form with APPLICATION equal to "ASP" and AIN REL equal to "R0D1".

For 5E11 and later, when the NPA, NXX, LINE and FIXED CARRIER fields are entered on the ANITBL form, a CARRIER ID must be defined on a corresponding ICF form with FEAT GRP equal to "D".

For 5E11 and later, when the NPA, NXX, LINE and LDP CARRIER fields are entered on the ANITBL form, the LDP CARRIER must be defined on a corresponding LDPCTBL form.

For 5E11, when the NPA, NXX, LINE and LDP CARRIER fields are entered on the ANITBL form, the LDP CARRIER must not be entered as TDX CARRID on the OFCOPT form.

For 5E12 and later, there must not be more than 8 ANITBL forms where NPA, NXX and LINE fields are the same.

For 5E12 and later, when there is more than one ANITBL form with the same NPA, NXX and LINE fields, a SFSYS form must exist with SFID 207 ACT set to "Y".

2.3 *NXX

Description: The NXX field is used to specify the Office Code associated with this NPA. Enter the NPA portion of the ANI.

Required Field.

Valid Entries: 000 - 999, or 000 for default ANI table entry.

2.4 *LINE

Description: The LINE field is used to specify the Local DN minus the office code.

Required Field.

Valid Entries:

— For 5E11 and earlier: 0000 - 9999

— For 5E12 and later: 0000 - 9999 or ANY for the wild card. For more information, see Division 2, Section 4A165, Feature 99-5E- 4221.

2.5 *LDP CARRIER

Description: The Long Distance Platform Carrier field is used to specify a carrier for the call. This field supports the Multiple CIC (Carrier Identification Code) Support for LDP (Long Distance Platform) Feature. For more information see Div. 2, Sec. 4A165.

Software Release: 5E11 and later

Valid Entries:

— For 5E11: Blank or 0 - 9999

— For 5E12: Enter 0 - 9999, 10000 for default LDP CARRIER, or 10004 for the wild card LDP CARRIER.

For more information, see Division 2, Section 4A165, Feature 99-5E- 4221.

- For 5E13 and later: Enter 0 - 9999, 10000 for default LDP CARRIER, or ANY for the wild card LDP CARRIER.

Data Rules:

When NPA is "000", NXX must be "000", LINE must be "0000" and LDP CARRIER must not be entered.

When LDP CARRIER is "10000", NPA must be "000" and LINE must be "0000".

2.6 DAS

Description: Enter the digit analysis selector or tree number for interpreting incoming digits to enable routing and charging calls. A value of 0 indicates no data for this field.

Default: 00

Valid Entries: 00 - 99.

2.7 SCR

Description: The SCR field is used to specify the screening index which allows for different billing rates and routing. This field supports the ANI Table Line Class Code feature. For more information see Div. 2, Sec. 4A165.

Valid Entries: Blank, or 1 - 4095.

2.8 NET CALL DENIAL

Description: Should the TDX call origination be denied?

Default: N

Valid Entries: Y, N

2.9 ACCT CODE LENGTH

Description: The ACCT CODE LENGTH field is used to specify the number of account code digits expected. A value of "0" indicates that an account code is not expected.

Default: 0

Valid Entries: 0 - 15.

2.10 FIXED CARRIER

Description: The FIXED CARRIER field is used to specify the Carrier used for inter-LATA calls.

Valid Entries: 0 - 9999, or blank.

Data Rules:

When FIXED CARRIER is entered, TRIG NBR must not be entered.

2.11 TRIG NBR

Description: The TRIG NBR field is used to specify the ASP (Advanced Services Platform) trigger number

used to locate unique network service for dialed digits. Population of this field indicates that a query will be launched to an external database.

Valid Entries: 1 - 255, or blank.

Data Rules:

When TRIG NBR is entered, FIXED CARRIER must not be entered.

The TRIG NBR field on the ANITBL form is used by the Toll Digital Exchange Special Feature in a LDP (Long Distance Platform) office. It is a secured feature that must be purchased by the office before the field can be entered. A SFSYS form must exist with SFID 126 ACT set to "Y".

2.12 II SCREEN

Description: The II SCREEN field is used to indicate whether or not the ANI data should be taken from the II Digits Table.

Software Release: 5E13 and later

Required Field.

Default: N

Valid Entries: Y, N

2.13 TERM NSC

Description: The TERM NSC field is used to specify the terminating network selection code. It translates to a DAS (Digit Analysis Selector) and screening index for routing the call. It is applicable in LDP (Long Distance Platform) networks that employ MINT (Multi-vendor Intra-Network Trunk) processing. For more information, see Div. 2, Sec. 4A217.

Software Release: 5E12 and later

Valid Entries: 0 - 999, or leave blank.

```

anitbl                      5ESS Switch          _
(5561)                      OFFICE DATA ADMINISTRATION
                              AUTOMATIC NUMBER IDENTIFICATION TABLE

```

```

*1. NPA                      ____
*2. NXX                      ____
*3. LINE                      ____
  4. DAS                      00
  5. SCR                      ____
  6. NET CALL DENIAL          N
  7. ACCT CODE LENGTH         0
  8. FIXED CARRIER           ____
  9. TRIG NBR                 ____
 10. LDP CARRIER             ____

```

Figure 1 SAMPLE ANITBL FORM 5E11 SOFTWARE RELEASE

```

anitbl                      5ESS Switch
(5561)                      OFFICE DATA ADMINISTRATION  _
                             AUTOMATIC NUMBER IDENTIFICATION TABLE

*1. NPA                      ____
*2. NXX                      ____
*3. LINE                     ____
*4. LDP CARRIER             ____
  5. DAS                     00
  6. SCR                     ____
  7. NET CALL DENIAL        N
  8. ACCT CODE LENGTH      0
  9. FIXED CARRIER        ____
10. TRIG NBR                ____
11. TERM NSC                ____

```

Figure 2 SAMPLE ANITBL FORM 5E12 SOFTWARE RELEASE

```

anitbl                      5ESS Switch                      _
                             OFFICE DATA ADMINISTRATION
(5561)                      AUTOMATIC NUMBER IDENTIFICATION TABLE

*1. NPA                      ____
*2. NXX                      ____
*3. LINE                     ____
*4. LDP CARRIER             ____
  5. DAS                     00
  6. SCR                     ____
  7. NET CALL DENIAL        N
  8. ACCT CODE LENGTH      0
  9. FIXED CARRIER        ____
10. TRIG NBR                ____
11. II SCREEN              N
12. TERM NSC                ____

```

Figure 3 SAMPLE ANITBL FORM 5E13 SOFTWARE RELEASE

SEC. 5BF: 5562 RECORD LONG DISTANCE PLATFORM CARRIER TABLE - LDPCTBL

1. GENERAL

The 5562 Record is applicable to 5E11 and later Software Releases. The 5562 Record provides an LDP Carrier Table and Default Carrier Table. The LDP Carrier Table applies to callers who used a carrier not shown in the ANI table or did not require ANI table processing and used a carrier that was not the home carrier ID. The default LDP Carrier Table applies to callers who used a carrier to which they have not subscribed or did not require ANI table processing and used a carrier that was not entered in the LDP carrier table.

The LDP Carrier Table supports part of the LDP (Long Distance Platform) Feature set. See Div. 2, Sec. 4A165 (Toll Digital Exchange Basic Call Processing For Toll 5ESS - 2000 Switch) for details.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.52

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *LDP CARRIER

Description: Enter the Long Distance Platform Carrier ID.

Required Field.

Valid Entries: 0 - 9999 or 10000 for default LDP carrier.

Data Rules:

The LDP CARRIER field on the LDPCTBL form is used by the Long Distance Platform Carrier Special Feature. It is a secured feature that must be purchased by the office before the field can be entered. A SFSYS form must exist with SFID 202 ACT set to "Y".

When the LDP CARRIER field is entered on the LDPCTBL form, the LDP CARRIER must be defined as CARRIER ID on a corresponding ICF form with FEAT GRP equal to "D".

2.3 *CARRIER PRESUBSCD

Description: Is carrier presubscribed?

Software Release: 5E12 and later

Required Field.

Valid Entries: Y, N

2.4 #DAS

Description: Enter the digit analysis selector or tree number for interpreting incoming digits to enable routing and charging calls.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When the DAS field is entered on the LDPCTBL form, the DAS must be defined on a DAS form as a DIGIT ANALYSIS SELECTOR value with a PREFIX/FEATURE DIT value entered.

When the DAS field is entered on the LDPCTBL form, the DAS field is defined as DIGIT ANALYSIS SELECTOR on a DAS form. Therefore, the value of LOCAL DIT for LINE DAS on the corresponding DAS form must be entered. Also LOCAL DIT must be defined as LDIT on the corresponding SMLDIT for every operational SM in the office. This must be accomplished by entering an SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the LIST OF SWITCHING MODULES.

2.5 SCR

Description: The SCR field is used to specify the screening index which allows for different billing rates and routing.

Software Release: 5E12 and later

Valid Entries: 1 - 4095

Data Rules:

For 5E16(2) and later, when SCR is not entered, both RAX and CODE RESTRICT must be 0 or blank.

2.6 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.7 CODE RESTRICT

Description: This field is used to record certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.8 NET CALL DENIAL

Description: Is Network Call Denial Active?

Valid Entries: Y, N

2.9 ACCT CODE LENGTH

Description: The ACCT CODE LENGTH field is used to specify the number of account code digits expected.

A value of 0 indicates that an account code is not expected.
Valid Entries: 0 - 15.

2.10 FIXED CARRIER

Description: The FIXED CARRIER field is used to specify the Carrier used for inter-LATA calls.
Valid Entries: 0 - 9999

Data Rules:

When the FIXED CARRIER field is entered on the LDPCTBL form, the FIXED CARRIER must be defined as CARRIER ID on a corresponding ICF form with FEAT GRP equal to "D".

2.11 TRIG NBR

Description: The TRIG NBR field is used to specify the ASP (Advanced Services Platform) trigger number used to locate unique network service for dialed digits. Population of this field indicates that a query will be launched to an external database.
Valid Entries: 1 - 255

Data Rules:

When TRIG NBR is entered, FIXED CARRIER must not be entered.

The TRIG NBR field on the LDPCTBL form is used by the Long Distance Platform Carrier Special Feature. It is a secured feature that must be purchased by the office before the field can be entered. A SFSYS form must exist with SFID 126 ACT set to "Y".

When the TRIG NBR field is entered on the LDPCTBL form, the TRIG NBR must be defined on a corresponding NSTRIG form with APPLICATION equal to "ASP" and AIN REL equal to "R0D1".

2.12 II SCREEN

The II SCREEN field is used to indicate whether or not the ANI data should be taken from the II Digits Table.

Required Field.

2.13 TERM NSC

Description: The TERM NSC field is used to specify the terminating network selection code. It translates to a DAS (Digit Analysis Selector) and screening index for routing the call. It is applicable in LDP (Long Distance Platform) networks that employ MINT (Multi-vendor Intra-Network Trunk) processing. For more information, see Div. 2, Sec. 4A217.

Software Release: 5E12 and later
Valid Entries: 0 - 999, or leave blank.

Data Rules:

For 5E12 and later, the TERM NSC entered on the LDPCTBL form must be defined on the corresponding LDPTNSC form.

```

ldpctbl                      5ESS SWITCH          —
(5562)                      OFFICE DATA ADMINISTRATION
                             LONG DISTANCE PLATFORM CARRIER TABLE

*1. LDP CARRIER             _____
#2. DAS                       ____
 3. NET CALL DENIAL          ____
 4. ACCT CODE LENGTH         ____
 5. FIXED CARRIER           _____
 6. TRIG NBR                 ____

```

Figure 1 SAMPLE LONG DISTANCE PLATFORM CARRIER TABLE FORM 5E11 AND EARLIER SOFTWARE RELEASES

```

ldpctbl                      5ESS Switch          —
(5562)                      OFFICE DATA ADMINISTRATION
                             LONG DISTANCE PLATFORM CARRIER TABLE

*1. LDP CARRIER             _____
*2. CARRIER PRESUBSCD      ____
#3. DAS                       ____
 4. SCR                      _____
 5. NET CALL DENIAL          ____
 6. ACCT CODE LENGTH         ____
 7. FIXED CARRIER           _____
 8. TRIG NBR                 ____

 9. II SCREEN                N
10. TERM NSC                 ____

```

Figure 2 SAMPLE LONG DISTANCE PLATFORM CARRIER TABLE FORM 5E13 - 5E14 SOFTWARE RELEASES

```

ldpctbl                      5ESS Switch          —
(5562)                      OFFICE DATA ADMINISTRATION
                             LONG DISTANCE PLATFORM CARRIER TABLE

*1. LDP CARRIER             _____
*2. CARRIER PRESUBSCD      ____
#3. DAS                       ____
 4. SCR                      _____
 5. NET CALL DENIAL          ____
 6. ACCT CODE LENGTH         ____
 7. FIXED CARRIER           _____
 8. TRIG NBR                 ____

 9. II SCREEN                N
10. TERM NSC                 ____

```

Figure 3 SAMPLE LONG DISTANCE PLATFORM CARRIER TABLE FORM 5E15 - 5E16(1)
SOFTWARE RELEASES

```
ldpctbl                                5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5562)                                LONG DISTANCE PLATFORM CARRIER TABLE

*1. LDP CARRIER                      _____
*2. CARRIER PRESUBSCD                _
#3. DAS                               _____
 4. SCR                               _____
 5. RAX                               _____
 6. CODE RESTRICT                     _____
 7. NET CALL DENIAL                   _
 8. ACCT CODE LENGTH                  _
 9. FIXED CARRIER                    _____
10. TRIG NBR                          _____
11. II SCREEN                         N
12. TERM NSC                          _____
```

Figure 4 SAMPLE LONG DISTANCE PLATFORM CARRIER TABLE FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5BG: 5563 RECORD MEASUREMENT COLLECTION SUMMARY - MEASSUM

1. GENERAL

The MEASSUM (Measurement Collection Summary) form (5563 Record) is available with 5E11 and later Software Releases. It is used to identify "components" selected for traffic measurements reported on the "30-minute" measurement report. Components are defined as the entity to be measured; components can be at the end product level (AIU, DNU-S, SS7 PSU, etc.) or subassemblies (i.e., packs, lines, DPIDB, etc.).

This form was introduced concurrently with the 5E11 and later AIU (Access Interface Unit) feature. The introduction of this form implements a new traffic measurement architecture for the collection of traffic data. Effective with 5E12 and later, additional measurement capabilities were added to support new features (see the Valid SECTION NAME Entries table).

The SECTION NAME field is used to select the components for measurement. The value of the SECTION NAME field gives meaning to the other fields on this form. For example, when field SECTION NAME is set to "AIULN", field START2COMP represents a pack number on an AIU. However, when SECTION NAME is set to "AIU", START2COMP has no meaning because the end product AIU is the highest level in the product structure, and therefore START2COMP should be left blank. For more details, see the description for the three START1COMP through START3COMP fields.

For ODA, the SECTION NAME field is used at the time of office initialization to select components to be measured. After office initialization, the components selected can be viewed on the corresponding RC (Recent Change) View 13.9. Note that RC's corresponding 13.9 View is actually a RC verify-only view.

RC Views 13.7 and 13.8 are used to further delineate selected components or to select a range of components to be measured. RC View 13.7 allows updating of individual components within a range to be selected/unselected for measurement. RC View 13.8 allows all components within a range to be selected/unselected for measurement. If multiple RC updates of either or both views are performed for a particular range of components, the data will reflect only the final state. For example, if RC View 13.7 is used to activate a certain component and subsequently RC View 13.8 is used to activate a range of components including that same component, the net result will be that all components within that range will be activated, including the component that was first activated using 13.7. No error/warning is generated by RC when selecting a component that is already selected. Similarly, if a range of components is activated using 13.8, RC View 13.7 could be used to deactivate one or more of those components, leaving the remainder active.

If reviewing the selected components (using either Recent Change Views 13.7, 13.9 (or 5563 Record)), only the selected component(s) and status can be determined, not the manner in which RC was used to select the components.

For 5E12 and later, RC View 13.10 is introduced and has some differences with Recent Change Views 13.7 and 13.8. For example, Recent Change View 13.10 is limited to data keyed by DN (Directory Number) for SECTION NAMES "ECDN" and "EPCS". RC Views 13.7 and 13.8 can also be used to update these same sections. RC View 13.10 can also operate in a special insert mode, where only unselected data is operated upon. Unlike update mode, previously selected components will be silently ignored, and the collection values for that component (e.g., ROP (Read/Receive Only Printer)) will not be changed. If reviewing SECTION NAMES "ECDN" or "EPCS", only the selected components can be determined, not the RC View (13.7, 13.8, or 13.10) used to select them.

1.1 Recent Change View

The corresponding Recent Change View for this form is 13.9 - a read only view. Supporting Recent Change Views for updating the data entered on this ODA form are 13.7, 13.8, and 13.10.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

COMPONENTS

These fields are used to designate the entity level (i.e., unit, component, etc.) for measurement. The SECTION NAME field is used along with the START1COMP - START3COMP fields to designate the measurable entity.

2.2 *SECTION NAME

Description: Enter the value for the desired traffic measurement report(s).

Required Field.

Valid SECTION NAME Entries		
Entry	TRFC30 Section Number	Description
ADPIDB	229	Software Release: 5E12 and later: Measurements for On-Demand B-Channel on DPIDB (Directly Connected Peripheral Interface Data Bus) for the AIU, AIU ISDN U-Interface, and Remote AIU ("EAIU") features.
AIU	216	Software Release: 5E11 and later: Measurements for the AIU feature and, for 5E12 and later, the Remote AIU ("EAIU") feature. See Division 2, Section 7K.
AIULC	218	Software Release: 5E11 and later: Measurements for all line circuits within a specific AIU type that has at least 1 operational application pack. See Division 2, Section 7K.
AIULN	217	Software Release: 5E11 and later: Measurements for specified AIU type line circuits.
APSODB	228	Software Release: 5E12 and later: Measurements for On-Demand B-Channel per AIU.
ATMLNK	167	Software Release: 5E17(1) FR1 and later: ATM Link measurements.
ATMQOSPS	239	Software Release: 5E17(1) FR1 and later: ATM Quality Of Service measurements for PSU to PSU connectivity on PHA2.
ATMPVC	43	Software Release: 5E18(1) and later: ATM Link Throughput Measured by PVC.(Permanent Virtual Circuit). This entry supports the Multiple PHA2 for PSU to PSU Connectivity feature. See Division 2, Section 7CG.
BCHNEG	80	Software Release: 5E14 and later: Measurements for B-Channel Negotiation. See Division 2, Section 6K.
BEARERLNK		Software Release: 5E16(2) and later: BEARERLNK (Bearer Link Measurements). This entry supports the OIU - IP feature. See Division 2, Section 7BX.
[BI]CCG	205	Software Release: 5E15 and later:

		BICC Group Measurements. This entry supports the PDS - BICC Call Processing feature. See Division 2, Section 4A567.
[BIC]CSM	207	Software Release: 5E16(2) and later: BICC CIC (Call Instance Code) SM-2000. This entry supports the BICC Static CIC Allocation feature. See Division 2, Section 1CB.
BNID	9	Software Release 5E20(1) and later. Bearer Network ID. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
CVTGTT	173	Software Release 5E20(1) and later. CV (Circuit Vocoder) Trunk Group Transcoding Type. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
[DL]INE	222	Software Release: 5E12 and later: Measurements for specified TR303 on DNU-S lines. This entry supports the TR303 DNU-S feature. See Division 2, Section 9J.
[DO]DB	223	Software Release: 5E12 and later: On-Demand B-Channel for DNU-S. This entry supports the TR303 DNU-S feature. See Division 2, Section 9J.
[EC]DN	235	Software Release: 5E12 and later: Measurements for Expanded Customer Directory Number. This entry supports the Number Portability - NXX Growth to 8000 secured feature. See Division 2, Section 4A198.
ECPSRVT	247	Software Release: 5E13 and later: Executive Cellular Processor Service Type
[EP]CS	236	Software Release: 5E12 and later: Measurements for Expanded Personal Communication Service. This entry supports the Number Portability - NXX Growth to 8000 secured feature. See Division 2, Section 4A198.
GBIPBH		Software Release: 5E20(1) and later: Gigabit IP Backhaul Measurements
HSL		Software Release: 5E16(2) FR 1 and later: High Speed Link
HSPD	244	Software Release: 5E15 and later: Measurements for High Speed Data Trunk Group.
IPBH	154	Software Release: 5E19(1) FR 1 and later. IP Backhaul Measurements.
IPBHSUP	153	Software Release: 5E19(1) FR 1 and later. IP Backhaul Supplement Measurements.
IPOIU		Software Release: 5E16(2) and later: IPOIU Measurements. This entry supports the OIU - IP feature. See Division 2, Section 7BX.
IPSHO	122	Software Release 5E20(1) and later. IP Soft Hand-Off. This entry supports the IP Soft Hand-Off feature. See Division 2, Section 4A774.
IPSHOCA	138	Software Release 5E20(1) and later. IP Soft Hand-Off Community Address. This entry supports the IP Soft Hand-Off feature. See Division 2, Section 4A774.
IPSHOCASUM	28	Software Release 5E20(1) and later. IP Soft Handoff Community Address Summary Measurements.
IPSHOSUP	130	Software Release 5E20(1) and later. IP Soft Hand-Off Supplemental Measurements. This entry supports the IP Soft Hand-Off feature. See Division 2, Section 4A774.
LAG	251	Software Release: 5E16(2) and later. Measurement for Line Access Gateway.
[MMSUG]MTIB	79	Software Release: 5E12 SU and later: Measurements for the MMSU Modular Metallic Test Interface Bus.

		See Division 2, Section 1BS.
[MMSUJ]MTB	78	Software Release: 5E12 SU and later: Measurements for the MMSU Modular Metallic Test Bus. See Division 2, Section 1BS.
MTSM	149	Software Release: 5E16(2) and later. Matrix Time Slot Measurements. See Division 2, Section 7BO.
NPH	24	Software Release 5E20(1) and later. Network PH (Protocol Handler). This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
NPHSUP	99	Software Release 5E20(1) and later. Network PH Supplemental. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
[O]DBPSU	221	Software Release: 5E12 and later: On-Demand B-Channel measurements for specified PSU shelves. This entry supports the TR303 DNU-S feature. See Division 2, Section 9J.
OIU	81	Software Release: 5E16(2) and later. Measurements for Optical Interface Unit. This entry supports the OIU feature. See Division 2, Section 7BQ.
PBOCC	165	Software Release: 5E17.1 FR 1 and later. This entry supports the PSU PB Occupancy Measurements feature. See Division 2, Section 1CS.
[P]C	234	Software Release: 5E12 and later: Point Code. This entry supports the SS7 PSU on SM/EXM-2000 feature. See Division 2, Section 9L.
PCF	245	Software Release: 5E17(1) FR 2 and later: Packet Control Function. This value supports the Measurements for PCF on PHE2 feature. See Division 2, Section AH.
PFSTGTT	174	Software Release 5E20(1) and later. PFS (Packet Frame Selector) Trunk Group Transcoding Type. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
PHE	2	Software Release: 5E17(1) FR 2 and later: Protocol Handler Ethernet This value supports the Measurements for PCF on PHE2 feature. See Division 2, Section AH.
PKTGRP	211	Software Release: 5E16(2) FR 3 and later: Packet Group. This field supports the SIP-T (Session Initiation Protocol) for Packet Trunking feature. For more information see Division 2, Section 4A684.
PKTZ		Software Release: 5E16(2) and later: PKTZ (Different Packetization Time Measurements). This entry supports the OIU - IP feature. See Division 2, Section 7BX.
PRIGRP	243	Software Release: 5E14 and later: This entry was previously called "TBCT" for 5E13 and earlier. The name was changed to more accurately describe the measurement. See Division 2, Section 4A214.
PSUCHAN	193	Software Release: 5E14 and later: Packet Switch Unit Channel Measurements
PVTGTT	172	Software Release 5E20(1) and later. PV (Packet Vocoder) Trunk Group Transcoding Type. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
RDT	224	Software Release: 5E12 and later: Measurements for specified DNU-S and RDT(s) (Remote Digital Terminals). This entry supports the TR303 DNU-S feature. See Division 2, Section 9J.
[RDTDN]U	225	Software Release: 5E12 and later:

		RDT measurements for specified DNU-S. This entry supports the TR303 DNU-S feature. See Division 2, Section 9J.
RTP	107	Software Release 5E20(1) and later. Real Time Transport Protocol. This entry supports the TRFO/RTO feature. For more information see Division 2, Section 4A 775.
[SC]CP	233	Software Release: 5E12 and later: Signaling Connection Control Part. This entry supports the SS7 PSU on SM/EXM-2000 feature. See Division 2, Section 9L.
SCTP	210	Software Release: 5E16(2) FR 3 and later. Stream Control Transmission Protocol. This field supports the OIU (Optical Interface Unit) SIP-T (Session Initiation Protocol for Telephones) feature. For more information see Division 2, Section 4A684.
SHTG	70	Software Release 5E20(1) and later. Measurements for trunk group number. This field supports the 4th Generation Vocoder feature. For more information see Division 2, Section 8AU.
SL	230	Software Release: 5E12 and later: Signaling Link. This entry supports the SS7 PSU on SM/EXM-2000 feature. See Division 2, Section 9L.
SLS	203	Software Release: 5E15 and later: Provides data for the Signaling Link Set performance. See Division 2, Section 7AX.
[SM]IWGPCT	206	Software Release: 5E15 and later: PCT Link Measurements. This entry supports the PDS - BICC Call Processing feature. See Division 2, Section 4A567.
SNP	204	Software Release: 5E15 and later: Provides data for the performance of CCS7 links for the GSM (Global Switching Modules). See Division 2, Section 7AX.
TAG	252	Software Release: 5E16(2) and later. Measurement for Trunk Access Gateway.
[T]BCT	243	Software Release: 5E13 and later: Measurements for the PRI Two B-channel Transfer feature. See Division 2, Section 4A214. NOTE: The name of this entry was changed to "PRIGRP" in 5E14.
TGN	212	Software Release: 5E15 and later: Measurements for trunk groups. Introduced by the Trunk Group Register Expansion feature. See Division 2, Section 4A596.
TSM	150	Software Release: 5E16(2) and later: Measurements for time slots. This entry supports the Additional Time Slot Measurements feature. See Division 2, Section 7BR.

Data Rules:

When "ADPIDB" is entered:

- DEST SM, START3COMP and START2COMP must be defined as SM, AIU and LOCAL TIME SLOT GROUP (PIDB) PSU SHLF, with EQSTAT is set to "O", respectively on the EQAIU form.
- DEST SM must be entered,
- START1COMP must be 0,
- START2COMP must be 0 - 4,
- START3COMP must be 0 - 42.

When "AIU" is entered:

- DEST SM and START1COMP must be defined as the SM and the AIU, respectively, on the EQAIU form (5745 Record) with its EQSTATUS set to "O".

DEST SM and START1COMP must be defined as SM and AIU on the EQAIU form where LOCAL TIME SLOT GROUP (PIDB), ROW 1, EQSTAT is set to "O", or where REMOTE COMDAC 0 TIME SLOT GROUP (TSPFAC0) row 1 EQSTAT is set to "O", or where TIME SLOT GROUP (XAIUTSGRP) row 1 EQSTAT is set to "O".

When "AIU" or "AIULC" is entered:

- DEST SM must be entered
- Refer to the START1COMP Valid Entry Table for software-release-specific entries.
- START2COMP and START3COMP must not be entered.

When "AIULC" is entered:

- At least one EQAIUP form must be defined with EQSTAT set to "O", and DEST SM and START1COMP defined as SM and AIU, respectively.
- Only one MEASSUM form is allowed per office.

When "AIULN" is entered:

- DEST SM must be entered,
- Refer to the START1COMP - START3COMP fields for software-release-specific entries.
- DEST SM, START1COMP and START2COMP must be defined as SM, AIU and APPL PACK NUM on the EQAIUP form where TYPE is not set to "AIRG" and EQSTAT is set to "O".
- and TYPE is "AIURPLP" on the corresponding EQAIUP form, START3COMP must be in the range of 00 - 11.
- and TYPE is "AICLP" or "AIULP" on the corresponding EQAIUP form, START3COMP must be in the range of 00 - 15.

When "APSODB" is entered:

- DEST SM and START1COMP must be defined as SM and AIU on the EQAIU form where LOCAL TIME SLOT GROUP (PIDB), ROW 1, EQSTAT is set to "O".

When "BCHNEG" is entered:

- START1COMP must be 1 - 4000, or leave blank

1 - 4000 = (PRI) B-Channel trunk group number

blank = uses the highest numbered (PRI) B-Channel trunk group number.

- START2COMP, START3COMP, and DEST SM must not be entered.
- START1COMP must have a matching TGN on the TKGRP form with a TRKCLASS of "EDSL" or "EDSLHM" and a TRK DIR of "INC", "OUT", or "2W".

When "DLINE" is entered:

- DEST SM must be entered,
- START1COMP must be 0 - 7 (DNU-S),
- START2COMP must be 1 - 99 (RDT),
- START3COMP must be 1 - 2048 (RT Line),
- the maximum lines per office is 512.

When "DLINE", "DODB", "ODBPSU", "RDT", or "RDTDNU" is entered:

- the DEST SM must be a valid SM defined on the EQIM form and UNIT TYPE must be "SM2000".

When "DODB" or "RDTDNU" is entered:

- START1COMP must be 0 - 7 (DNU-S),
- START2COMP must not be entered,
- START3COMP must not be entered,
- only one MEASSUM form is allowed per office for "DODB".
- only two MEASSUM forms are allowed per office for "RDTDNU".

When "ODBPSU" is entered:

- DEST SM must be entered,
- START1COMP must be 0,
- START2COMP must be 0 - 4 (PSU shelf),
- START3COMP must not be entered.
- the maximum lines per office is 115.

When "RDT" is entered:

- DEST SM must be entered,
- START1COMP must be 0 - 7 (DNU-S),
- START2COMP must be 1 - 99 (RDT),
- START3COMP must not be entered,
- the maximum lines allowed per office is 256.

When "ECDN" or "EPCS" is entered:

- START1COMP must be a 7 or 10-digit TN (NXXXXXXX or NXXXXXXXXX).
- START2COMP, START3COMP, or DEST SM must not be entered,

For 5E12 and later,

- a maximum of 250 MEASSUM forms are allowed per office with SECTION NAME of "ECDN" and a maximum of 250 MEASSUM forms are allowed per office with SECTION NAME of "EPCS".
- if START1COMP is either a 7-digit or 10-digit TN, when the 7-digit TN is equal to the last seven digits of a 10-digit TN with the same value of SECTION NAME, and the NPA for the seven digit TN is the same as the first three digits of the 10-digit TN, the forms are duplicated; one of the two forms must be deleted.
- 7-digit and 10-digit TNs cannot have duplicate OFFICE CODE entries on the NOC form.
- the first three digits of a 7-digit TN and the first six digits of a 10-digit TN must be assigned on the NOC form as the OFFICE CODE or the NPA/OFFICE CODE, respectively.

When "PC" is entered:

- START1COMP must be 9 digits:

[000-225] [000-255] [000-255] or
[000-255] [00-31] [0-7] [000-255]

When "PRIGRP" is entered:

- START1COMP on the same MEASSUM form must be defined as PRI GROUP on the PRIGRP form (5211 Record).
- a maximum of 640 MEASSUM forms are allowed per office with SECTION NAME of "PRIGRP".

When "PSUCHAN" is entered:

- START1COMP, must be a number from 0 to 1 or blank, where (0-1) is the PSU number or where blank uses the lowest PSU number.
- START2COMP, must be a number from 0 to 4 or blank, where (0-4) is the PSU SHELF number and

where blank uses the lowest PSU SHELF number

- START3COMP, must be a number from 0 to 15 or blank, where (0-15) is the channel group for the PSU shelf.

When "SCCP" is entered:

- START1COMP must be 0 - 192 (GSM)
- START2COMP, START3COMP, and DEST SM must not be entered.

When "SL" is entered:

- DEST SM must be entered, START1COMP must be 0 - 255 (link set), START2COMP must be 0 - 7 (member) and START3COMP must not be entered.

For 5E12 SU and later:

When SECTION NAME is "MMSUJMTB":

- START3COMP must be 0 - 3.

When SECTION NAME is "MMSUGMTIB":

START1COMP must be 0 - 1, and START2COMP and START3COMP must not be entered.

For 5E13 and later:

When SECTION NAME is "TBCT"/"PRIGRP":

- START1COMP must be 1 - 4095, and START2COMP, START3COMP, and DEST SM must not be entered.
- and START1COMP is entered, START1COMP must match PRI GROUP on the PRIGRP form.
- a maximum of 640 MEASSUM forms are allowed per office.

For 5E15 and later:

When SECTION NAME is "SLS":

- DEST SM must be entered, START1COMP and END1COMP must be 1- 255 (Link Set Number) or not entered, START2COMP, END2COMP, START3COMP, and END3COMP must not be entered.

When SECTION NAME is "SNP":

- DEST SM must not be entered, START1COMP and END1COMP must be 1- 192 (GSM) or not entered, START2COMP, END2COMP, START3COMP, and END3COMP must not be entered.

When SECTION NAME is "BICCG":

- START1COMP must be entered and should be between 7000 and 7999.
- DEST SM, START2COMP, START3COMP, and START4COMP must not be entered.

When SECTION NAME is "HSPD":

START1COMP must have a matching TGN on the TKGRP form with a TRKCLASS of "3GPD".

When SECTION NAME is "SMIWGPCT":

- DEST SM must be known and, START1COMP, START2COMP, START3COMP, and START4COMP must not be entered.
- DEST SM should have a matching IM on the EQIWG form (5874 Record).

When SECTION NAME is "SMIWGPCT" or "FRBC":

- DEST SM should have a matching IM on the EQIM form (5700 Record) with EQSTATUS set to "O".

When SECTION NAME is "TGN":

START1COMP must be 1 - 4000.

START2COMP, START3COMP and DEST SM must not be entered.

START1COMP must have a matching TGN on the TKGRP form (5202 Record) where TRKCLS does not equal "FRBC", "PPMEM", "PKTPIPE", or "SVC".

START1COMP must have a trunk group number less than or equal to MAX TGN in the OFCOPT form (5509 Record).

ACT must be "Y" for SFID 596 on the SFSYS form (5713-1 Record).

For 5E16(2) and later:

When SECTION NAME is "BICCSM":

DESTSM must have a matching SM2K MODULE value entered in the CIC DISTRIBUTION list on the CICDIST form (5217 Record).

START1COMP must have a matching TGN on the TKGRP form (5202 Record).

When SECTION NAME is "LAG", DEST SM must be entered, START1COMP must be 1 - 105 (LAG), and START2COMP and START3COMP must not be entered.

When SECTION NAME is "TAG", DEST SM must be entered, START1COMP must be 1 - 9 (TAG), and START2COMP and START3COMP must not be entered.

When SECTION NAME is "PSUCHAN":

START1COMP [1, 1] (PS UNIT) must be 0 - 1

START1COMP [2, 14] (PSU SHELF) must be 0 - 4

START2COMP (CHANNEL GROUP) must be 0 - 15

START3COMP (CHANNEL) must be 0 - 127

DEST SM must be entered.

When SECTION NAME is not "PC", "ECPSRVT", "PSUCHAN", or "FRBC", START1COMP must not have leading zeroes.

When SECTION NAME is "ECPSRVT", START1COMP [2, 10] must match the SERV TYPE on the TKGRP form (5202 Record).

When SECTION NAME is "ECPSRVT" for START1COMP [2, 10], SERV TYPE on the TKGRP form (5202 Record) must be "3G1XPD".

When SECTION NAME is "PSUCHAN", and DEST SM matches SWITCHING MODULE on the EQPSU or EQPSUP forms:

START1COMP [1, 1] (PS UNIT) must match PSU on the EQPSU or EQPSUPH forms

START1COMP [2, 14] (PSU SHELF) must match PSU on the EQPSU or EQPSUPH forms

When SECTION NAME is "MTSM":

START1COMP and START2COMP must be different and must be a value between 1-192, START3COMP and DESTSM must not be entered.

When SECTION NAME:

is "BEARERLNK", then START1COMP must be between 1 and 192, START2COMP must be between 1 and 512, START3COMP and DEST SM must not be entered.

is "PKTZ", then START1COMP must be between 1 and 512, START2COMP, START3COMP and DESTSM must not be entered.

is "IPOIU", then START1COMP must be between 1 and 192, START2COMP must be between 0 and 7, START3COMP must be between 0 and 9, DEST SM must not be entered.

is "BEARERLNK", START1COMP must match OIU SM on the EQOIUP form and START2COMP must match BNID on the EQOIUP form.

is "IPOIU", START1COMP, START2COMP, and START3COMP must match OIU SM, OIU, and PROTECTION GROUP on the EQOIUP form and BNID on the EQOIUP form must be entered.

is "PKTZ", START1COMP should have a matching BNID on the BEARER NET form with a BEARER TYPE of "OIU".

For each START1COMP entered for "IPOIU" SECTION NAME on the MEASSUM form, there must be a corresponding tuple on the EQIM form, where SM is equal to START1COMP, with UNIT TYPE set to "SM2000" or "SM2005" and EQSTATUS is equal to "O" (Operational).

When "PKTGRP" is entered, START1COMP should have a matching PKT GRP defined on the PKTGRP form (5219 Record) where ASSOC SET NAME is entered.

When "SCTP" is entered, START1COMP should have a matching ASSOC NUMBER on the SCTPASSC form (5889 Record), and DEST SM must be entered.

When SECTION NAME is "IPOIU" for each START1COMP value specified, there must be a corresponding tuple on the EQIM form (5700 Record) where SM is equal to START1COMP, UNIT TYPE is set to "SM2000", "SM2005", or "SMU6", and EQSTATUS is "O" (Operational).

For 5E17 and later:

When SECTION NAME is "SNP" and/or "PBOCC":

START1COMP must have a matching SM on the EQIM form (5700 Record) with EQSTATUS equal "O".

When SECTION NAME is "PBOCC":

START1COMP must match SWITCHING MODULE, and START2COMP must match PSU on the EQPSU form (5741 Record).

the ATMLNK form (5592 Record) must have at least one tuple where its CHANNELS CON TYPE equals "ATMNET", and the SM matches START1COMP and PSU matches START2COMP on the MEASSUM form.

When SECTION NAME is "ATMLNK" and START3COMP is "P", then the DEST SM, START1COMP, and START2COMP must have the corresponding SM, PSU, and LINK values entered on the ATMLNK form (5592 Record) and CHANNELS CON TYPE is "ATMNET".

When SECTION NAME is "PCF" :

there must be a corresponding PCFPDSN form (Record) where DEST SM, START1COMP, START2COMP, and START3COMP equals SM, PSU, SHELF and CHANNEL GROUP respectively.

When SECTION NAME is "PCF" or PHE:

there must be a corresponding ETHIP form (Record) where DEST SM, START1COMP, START2COMP, and START3COMP equals SM, PSU, SHELF, and CHANNEL GROUP respectively.

For 5E18 and later:

When SECTION NAME is "ATMPVC":

START1COMP must be 0 or 1.

START1COMP, START2COMP, START3COMP, and DEST SM must be known.

For 5E19 and later:

When SECTION NAME is "IPBH" or "IPBHSUP":

START1COMP must be 0 - 1 (PSU), START2COMP must be 1 - 20 (PH GROUP), DEST SM must be entered, and START3COMP must not be entered.

For 5E20 and later:

When SECTION NAME is "BNID":

START1COMP must be 1 - 192 (Switching Module Number) or not entered.

START2COMP must be 0 - 1 (PSU Unit number) or not entered.

START3COMP must be 1 - 512 (Bearer Network ID) or not entered.

DEST SM must not be entered.

START1COMP must have a matching BNID on the BEARER NET form (5935 Record) with BEAR TYPE of "NPH".

When SECTION NAME is "CVTGTT":

START1COMP should have a matching TGN on the TKGRP form (5202 Record) with TRKCLS set to "CV".

When SECTION NAME is "IPSHO", "IPSHOSUP", or "IPSHOCA":

DEST SM must be defined as SM on the EQIM form (5700 Record) with an EQSTATUS of "O".

When SECTION NAME is "IPSHOCA":

the combination of START2COMP and START3COMP on the MEASSUM form (5563 Record) must first be defined as SUBNET ID and FAR CA respectively, on the CA2IPMAP form (5897 Record).

the maximum number of components that can be collected for a given SM and PSU combination must not exceed 254.

and APP TYPE is defined as "IPSHO" on the PHGRP form (5892 Record), START1COMP and START2COMP on the MEASSUM form must already be defined respectively, as SM and PSU on the PHGRP form.

START1COMP must be 1 - 192 (SM), START2COMP must be 0 - 1 (PSU), START3COMP must be Far Subnet ID[0 - 3] - Far PSU CA [1 - 254], and DEST SM must not be entered.

SUBNET ID and FAR CA must be defined on the CA2IPMAP form (5897 Record).

When SECTION NAME is "IPSHO" or "IPSHOSUP",

APP TYPE is defined as "IPSHO" on the PHGRP form (5892 Record), START1COMP, START2COMP, and START3COMP combination on the MEASSUM form must be already defined as SM, PSU, and PHGRP on the PHGRP form.

When SECTION NAME is IPSHO, "IHSOSUP", "IPSHOCA", "NPH", or "NPHSUP":

the corresponding START1COMP must be defined as SM on the EQIM form (5700 Record) with an EQSTATUS of "O".

When SECTION NAME is "NPH" or "NPHSUP":

START1COMP must be 1 - 192 (Switching Module Number) or not entered.

START2COMP must be 0 - 1 (PSU Unit number) or not entered,

START3COMP must be 1 - 20 (Protocol Handler Group Number) or not entered, and

DEST SM must not be entered.

START1COMP, START2COMP, and START3COMP must already be defined as SM, PSU, and PH GROUP on the PHGRP form (5892 Record) with APP TYPE set to "PVA".

When SECTION NAME is "PFSTGTT":

START1COMP must have a matching TGN on the TKGRP form (5202 Record) with TRKCLS set to "PFS".

When SECTION NAME is "PVTGTT":

START1COMP must have a matching TGN on the TRKGRP form (5202 Record) with TRKCLS set to "PV"

When SECTION NAME is "PVTGTT", "PFSTGTT", or "CVTGTT":

START1COMP must be 1 - 2000 (Trunk Group Number) or not entered,

DEST SM, START2COMP, and START3COMP must not be entered.

When SECTION NAME is "RTP":

START1COMP must be 7000 - 7999 (Packet Group Number), or not entered,

DEST SM, START2COMP, and START3COMP must not be entered.

START1COMP must have a matching PKT GRP on the TKGRO form with SIPT GRP and DCS TRK set to "Y".

When SECTION NAME is "SHTG", the START1COMP should have a matching TGN on the TKGRP form (5202 Record) and the SERV TYPE on this matching TKGRP must be set to "CEV13" or "EVEVB".

For 5E21(1) and later:

When SECTION NAME is "IPBH", "GBIPBH", or "IPBHSUP":

DEST SM, START1COMP, START2COMP combination on the MEASSUM form must be defined as SM, PSU, PH GROUP combination on the PHGRP form (5700 Record) with an APP TYPE of "IPBPH".

DEST SM must be entered, START1COMP must be 0-1, START2COMP must be 1-10, and START3COMP must not be entered on the MEASSUM form.

When Section Name is "TGN", it is possible to select "SV" trunk group.

When APP TYPE is "IPBPH" on the PHGRP form and SECTION NAME is "GBIPBH" on the MEASSUM form, PH TYPE must be "PHE4" on the PSUGP form.

When APP TYPE is "IPBPH" on the PHGRP form and SECTION NAME is "IPBH" or "IPBHSUP" on the MEASSUM form, PH TYPE must be "PHE3" on the PSUGP form.

2.3 (*)START1COMP

Description: The START1COMP field specifies the component pattern of the initial starting point for a range of components. This value will be used in conjunction with the START2COMP and START3COMP fields to determine the starting point for displaying, in ascending order, the collection identifier in the COMPONENT COLLECTION LIST field on Recent Change View 13.7.

Valid Entries: The following table summarizes valid entries for this field:

Valid START1COMP Entries	
Entry	Description
0 - 1	"ATMLNK", "ATMPVC", "GBIPBH", "IPBH", "IPBHSUP", "MMSUGMTIB", "MMSUJMTB", "PCF", "PHE".
0 - 1 + Service Type	"ECPSRVT"
0 - 1 (PS UNIT), 0 - 4 (PSU SHELF)	"PSUCHAN" or "SCTP"
0 - 7	"OIU"
0 - 104	"ADPIDB", "AIU", "AIULC", "AIULN", "APSODB"
1 - 9	"TAG"
1 - 105	"LAG"
1 - 192	"BEARERLNK", "BNID", "IPOIU", "IPSHO", "IPSHOCA", "IPSHOCASUM", IPSHOSUP", "TSM", "MTSM", "NPH", "NPHSUP", "PBOCC",
1 - 512	"BEARERLNK", "IPOIU", "PKTZ"
1 - 4000	"BCHNEG", "HSPD" For 5E15 FR3 and later: "ATMQOS", "BCHNEG", "CVTGTT", "HSPD", "PFSTGTT", "PVTGTT", "SHTG", "TGN",
1 - 4095	"PRIGRP"
1 - 254	"ATMQOSPS"
1 - 255	"HSL" or "HLS"
7 or 10-digit telephone number	"ECDN" or "EPCS".
00100000 - 19241531	"FRBC"
7000 - 7999	"BICCG", "BICCSM", "PKTGRP", "RTP"

2.4 (*)START2COMP

Description: This field is used to specify the component pattern of the initial starting point for a range of

components. This value is used in conjunction with the START1COMP and START3COMP fields to determine the starting point for displaying in ascending order, the collection identifier in the COMPONENT COLLECTION LIST field on the 13.7 View.

Valid Entries:

Valid START2COMP Entries	
Entry	Description
0 - 1	"BNID", "IPBH", "IPBHSUP", "IPSHO", "IPSHOCA", "IPSHOCASUM", "IPSHOSUP", "MMSUJMTB", "NPH", "NPHSUP", or "PBOCC"
0 - 3	"IPSHOCA"
0 - 4	"PCF", "PHE"
0 - 7	"IPOIU"
0 - 15	"HSL", "NPH", "NPHSUP", "PCF", "PHE"
0 - 1951	"ATMQOS"
1 - 10	"ATMLNK", "ATMPVC", "ATMQOSPS", "IPBH", "IPBHSUP", "GBIPBH"
1 - 20	"IPBH", "IPBHSUP", "IPSHO", "IPSHOSUP"
1 - 192	"MTSM"
1 - 512	"BEARERLNK"
H or L (ATMQOSPS)	CP

Data Rules:

When SECTION NAME is "AIULN", enter a number from 0 - 19, for the AIU pack number, or leave blank (uses lowest operational APPL PACK NUM in the AIU).

When SECTION NAME is "AIU" or "AIULC", leave blank (not used).

2.5 (*)START3COMP

Description: This field is used to specify the component pattern of the initial starting point for a range of components. This value is used in conjunction with the START1COMP and START2COMP fields to determine the starting point for displaying, in ascending order, the collection identifier in the COMPONENT COLLECTION LIST field on 13.7 View.

Valid Entries:

Valid START3COMP Entries	
Entry	Description
"B" or "P"	"ATMLNK"
1 - 20	"IPSHO", "IPSHOSUP", "NPH", "NPHSUP"
1 - 512	"BNID"
"B", "I", or "O"	"ATMQOS"
[0-3 - [1-254]	"IPSHOCA"
0 - 3 represents the far subnet ID	
1 - 254 represents the far PSU Community Address	
[0-3 - [1-254] - [L,H]	"ATMQOSPS", "ATMPVC"
0 - 3 represents the far subnet ID	
1 - 254 represents the far community address	
L,H is either Low or High application types	
0 - 9	"IPOIU"
0 - 3	"MMSUJMTB"
Blank	"MTSM"
0 - 15	"PCF", "PHE"

Data Rules:

If SECTION NAME is "AIULN", enter a number from 0 - 31, where:

0 - 15: circuits on an AIU coin pack

0 - 31: circuits on an AIU non-coin application pack.

Blank: uses lowest circuit number in the AIU pack.

If SECTION NAME is "AIU" or "AIULC", leave blank (not used).

2.6 (*)DEST SM

Description: The field is used to specify the SM associated with components from which the data will be collected.

Valid Entries: Blank, or 1 - 192

2.7 COLLECT

Description: This field is used to verify whether or not a component is enabled or disabled for collection purposes.

Software Release: 5E20(1) and later

Valid Entries:

Valid COLLECT Entries	
Entry	Definition
Y	Both AM and GSM is enabled.
G	Only GSM (Global Measurement Service Module) is enabled.

2.8 ROP

Description: Generate the components measurements report on the ROP (Receive Only Printer)?

Software Release: 5E12 and later

Valid Entries: Y, N

```

meassum                                5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5563)                                MEASUREMENT COLLECTION SUMMARY

COMPONENTS
  *2. SECTION NAME _____
  (*) 3. START1COMP _____
  (*) 4. START2COMP _____
  (*) 5. START3COMP _____
  (*) 7. DEST SM   _____

      8. COLLECT  _
      9. ROP      _

```

Figure 1 SAMPLE MEASSUM FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BH: 5567 RECORD CCS TCAP APPLICATION - CCSTCAP

1. GENERAL

The CCSTCAP (Common Channel Signaling Transaction Capabilities Application Part) form (5567 Record) is available with 5E12 and later Software Releases.

It is used to support the CCS7-PSU on SM/EXM-2000 feature (see Division 2, Section 9L).

The 5567 Record defines, on an SM/SM-2000 basis:

- the CCS signaling platform: CNI (Common Network Interface) or a particular GSM (Global Switching Module)
- the type of CCS signaling application.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.42.

1.2 * SM

Description: Enter the SM (Switching Module) Number.

Required Field.

Valid Entries: 1 - 192

Data Rules:

SM on the CCSTCAP form must match SM on the EQIM form.

1.3 * APPLICATION

Description: Enter the signaling application type.

Required Field.

Valid APPLICATION Entries	
ACND	Analog Calling Name Delivery.
AILS	Automated Inward Line Screening.
AINROD1	Advanced Services Platform Release 0.1.
APSDN	Software Defined Network at an Action Point.
ASP	Advanced Services Platform.
AT1	ANSI TCAP Type I.
CCS7	Common Channel Signaling System 7 TCAP.
DCIS	Destination Routed CCIS6.
E911	Emergency 911 call.
ICCV	International Credit Card Validation.
ISVM	Inter-Switch Voice Messaging.
LALT	LIDB Alternate Destination.
LASS	Local Area Signaling Services.
LIDB	Line Information Database.
LNACP	Leased Network Action Control Point.
NCD	Network Call Denial.
NS800	Number Services 800 Application.
OLNP	OSPS Local Number Portability.

ONAI	OSPS Network Access Interrupt Application.
PVN	Private Virtual Network.
TNAI	Toll Network Access Interrupt Application.

Data Rules:

When APPLICATION is not "NS800", "LASS", "AINRODI", "ASP", "ISVM", "ACND", "LNACP", or "TNAI", PLATFORM must be 0.

For each APPLICATION entered, there must be a matching DSAPP entered on the DSAPP form (5537 Record).

When APPLICATION matches the APPLIC on the DSAPP form and the PLATFORM is not set to 0 and is not equal to SM on the CCSTCAP form, the PLATFORM must match a GSM on the corresponding CCTT form where the TRANS TYPE on the DSAPP form matches the TRANS TYPE on the CCTT form.

1.4 # PLATFORM

Description: Enter the CCS signaling platform.

Required Field.

Valid PLATFORM Entries	
0	Common Network Interface.
1 - 192	Global Switching Module.

Data Rules:

When PLATFORM is 0, the COMMON CHAN SIG field on the OFCOPT form (5509 Record) must be "CNI" or "ALL".

For each non-zero PLATFORM entered,

there must be a matching GSM entered on the CCGSM form.

TRANS TYPE on the DSAPP form (5537 Record) must match a TRANS TYPE on the CCTT form.

For 5E14 and earlier, when PLATFORM is not 0, PLATFORM must be equal to SM.

When PLATFORM is not 0 and the SM entered has an SM-2000 class processor, the APPLICATION field must not be set to "LNACP".

For 5E15 and later, when PLATFORM is not 0 and is not equal to SM on the CCSTCAP form, the PLATFORM and the SM on the CCSTCAP form must match the GLOBAL SM and NON GLOBAL SM on the CMTMH form, respectively.

```

ccstcap          5ESS Switch          —
(5567)           OFFICE DATA ADMINISTRATION
                  CCS TCAP APPLICATION

```

```

*1. SM          _____
*2. APPLICATION _____
#3. PLATFORM    _____

```

Figure 1 SAMPLE CCSTCAP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BI: 5568 RECORD LDP TERMINATING NSC - LDPTNSC

1. GENERAL

The LDPTNSC form (5568 Record) is available with 5E12 and later Software Releases. It provides the capability for specifying or verifying a TNSC (Terminating Network Selection Code), and its associated DAS (Digit Analysis Selector) and screening index information. This view will be populated on a LDP switch, and will be used to provide the DAS and screening index to route ingressing traffic from a MINT (Multi-Vendor Intra-Network Trunk). It will also be used when a TNSC is returned from the SCP. This new form was added to support the MINT feature. For more information, see Div. 2, Sec. 4A217.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.53.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *TERM NSC

Description: The TERM NSC field is used to specify the terminating network selection code. It translates to a DAS (Digit Analysis Selector) and screening index for routing the call. It is applicable in LDP networks that employ MINT processing.

Required Field.

Valid Entries: 0 - 999

Data Rules:

When TERM NSC is entered on the ANITBL form, the TERM NSC must be defined on the LDPTNSC form.

2.3 #DAS

Description: The DAS field is used to specify the digit analysis selector used when interpreting incoming digits for routing and charging purposes.

Required Field.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

The DAS entered on the LDPTNSC form must be defined on the DAS form where DIGIT ANALYSIS SELECTOR matches DAS on the LDPTNSC form. In addition, the TYPE OF CI CALL and CI TYPE of CONFLICT RESOLUTION ENTRIES on the corresponding LDIT form and the TYPE OF CI CALL on the corresponding MLDIT form must not be "PSNCI" and "PSCAR".

2.4 #SCR

Description: The SCR field is used to specify the screening index. It is used to determine how calls will be charged.

Required Field.

Valid Entries: 1 - 4095

2.5 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.6 CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) that should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.7 LRN DAS

Description: Location routing number digit analysis selector.

Software Release: 5E13 and later.

Valid Entries:

For 5E14 and earlier: 1 - 99

For 5E15 and later: 1 - 254

Data Rules:

When LRN DAS is entered on this form, the ACT field for SFID 303 must be set to "Y" on the SFSYS form (5713-1 Record).

When LRN DAS is entered on the LDPTNSC form, it must be defined as DIGIT ANALYSIS SELECTOR on the DAS form.

ldptnsc	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5568)	LDP TERMINATING NSC	

*1. TERM NSC	_____
#2. DAS	_____
#3. SCR	_____
4. LRN DAS	_____

Figure 1 SAMPLE LDPTNSC FORM 5E15 THROUGH 5E16(1) AND LATER SOFTWARE RELEASES

ldptnsc	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5568)	LDP TERMINATING NSC	
*1. TERM NSC	_____	
#2. DAS	_____	
#3. SCR	_____	
4. RAX	_____	
5. CODE RESTRICT	_____	
6. LRN DAS	_____	

Figure 2 SAMPLE LDPTNSC FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5BJ: 5569 RECORD LDP TRUNK TERMINATING NSC - TGNTNSC

1. GENERAL

The TGNTNSC form (5569 Record) is available with 5E12 and later Software Releases. It provides the capability for specifying or verifying a TNSC (Terminating Network Selection Code) based on an incoming TNSC over a trunk group. This new form was added to support the MINT feature. For more information, see Div. 2, Sec. 4A217.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.54.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *TGN

Description: The TGN field is used to specify the trunk group number.

Required Field.

Valid Entries: 0 - 999

2.3 *INCOMING TERM NSC

Description: The INCOMING TERM NSC field is used to specify the terminating network selection code. It is applicable in LDP networks that employ MINT processing.

Required Field.

Valid Entries: 0 - 999, or the number 1022.

Data Rules:

INCOMING TERM NSC cannot be the same as TERM NSC.

2.4 #TERM NSC

Description: The TERM NSC field is used to specify the terminating network selection code. It is applicable in LDP (Long Distance Platform) networks that employ MINT processing.

Required Field.

Valid Entries: 0 - 999

Data Rules:

The TERM NSC entered on the TGNTNSC form must be defined on the LDPTNSC form.

```

tgntnsc                                5ESS Switch
                                         OFFICE DATA ADMINISTRATION
(5569)                                LDP TRUNK TERMINATING NSC

*1. TGN                                _____
*2. INCOMING TERM NSC                 _____
#3. TERM NSC                          _____

```

Figure 1 SAMPLE TGNTNSC FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BK: 5570 RECORD REROUTE ON RELEASE CAUSE LIST - RORLST

1. GENERAL

The RORLST form (5570 Record) is available with 5E12 and later Software Releases. It is used to arm (i.e. enable) various cause values associated with a resource unavailable event. If a reroute on release message is received at this switch, and the cause value associated with the message is armed, the switch shall continue searching for an outgoing route. The search will commence with the next route index in the chain after the one which returned the reroute on release message, and will continue until another route is found available, a route search limit is reached, or the chain is exhausted. If a reroute on release message is received at this switch, and the cause value associated with the message is not armed, or the Reroute on Release feature is not purchased, reroute on release processing as previously described will not occur. This form was added to support the Multi-Vendor Intra-Network Trunk (MINT) feature. This feature was first made available in a 5E12(1) software update. For more information, see Div. 2, Sec 4a217.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.55.

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *KEY

Description: The KEY field is used to access this form.

Required Field.

Valid Entries: 1

2.3 CAUSE 32 - 47

Description: The CAUSE 32 - 47 fields are used to indicate whether or not this ISUP protocol cause value is activated for the office. Is this ISUP protocol activated for the office?

Required Field.

Default: N

Valid Entries: Y, N

Cause Value	Description
32	Unspecified
33	Unspecified
34	No circuit value
35	Unspecified
36	Unspecified
37	Unspecified
38	Network out-of-order
39	Unspecified
40	Unspecified
41	Temporary failure
42	Switching equipment congestion
43	User information discarded
44	Requested Circuits/Channels not available

45	Unspecified
46	Precedence call block
47	Resource Unavailable, Unspecified

```

rorlst                      5ESS Switch          —
                           OFFICE DATA ADMINISTRATION
(5570)                      REROUTE ON RELEASE CAUSE LIST

```

```

*1. KEY      1
 2. CAUSE 32 N    10. CAUSE 40 N
 3. CAUSE 33 N    11. CAUSE 41 N
 4. CAUSE 34 N    12. CAUSE 42 N
 5. CAUSE 35 N    13. CAUSE 43 N
 6. CAUSE 36 N    14. CAUSE 44 N
 7. CAUSE 37 N    15. CAUSE 45 N
 8. CAUSE 38 N    16. CAUSE 46 N
 9. CAUSE 39 N    17. CAUSE 47 N

```

Figure 1 SAMPLE RORLST FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BL: 5571 RECORD TIME DEPENDENT ROUTING - TDR

1. GENERAL

The TDR form (5571 Record) is available with 5E12 and later Software Releases. It is used to specify and verify time intervals and their associated substitute route indices. The new route index overrides the original route index for the specified time interval. If two or more time intervals include the present time, and are marked as active, the new route index will be chosen from the highest numbered row entry in the list of time intervals. This form was added to support the MINT (Multi-Vendor Intra Network Trunk) feature. This feature was first made available in a 5E12 Software Update. For more information, see Div. 2, Sec. 4A217.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.39

2. FORM ENTRIES AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *ROUTE INDEX

Description: The ROUTE INDEX field is used to specify the route index number. The route index determines a network path, typically used to complete a call or route to error treatment when the call is unable to complete.

Required Field.

Valid Entries: 1 - 16382

Data Rules:

When a ROUTE INDEX is entered, at least one time interval must be entered.

The ROUTE INDEX entered on the TDR form cannot be used as NEW ROUTE IDX on any other TDR forms. In addition, the NEW ROUTE IDX entered on the TDR form also cannot be used as ROUTE INDEX on any other TDR forms.

The following ROUTE INDEX and/or NEW ROUTE IDX entered on the TDR forms must be defined on the RTIDX forms.

TIME INTERVALS

The following list of time intervals (up to 16 entries) consisting of START DAY, START TIME, END DAY, END TIME, NEW ROUTE INDEX, and ACTIVATION status, for a given ROUTE INDEX. When a time interval field is entered, all other fields for that interval must be entered.

2.3 START DAY

Description: The START DAY field is used to specify the starting day for a particular time interval.

Valid Entries: MON, TUE, WED, THU, FRI, SAT, SUN, or leave blank.

2.4 START TIME

Description: The START TIME field is used to specify the starting time for a particular time interval.

Valid Entries: 0 - 23, or leave blank.

Data Rules:

When START DAY equals END DAY, START TIME must be different than the END TIME for that time interval.

2.5 END DAY

Description: The END DAY field is used to specify the end day for a particular time interval.

Valid Entries: MON, TUE, WED, THU, FRI, SAT, SUN, or leave blank.

2.6 END TIME

Description: The END TIME field is used to specify the end time for a particular time interval.

Valid Entries: 0 - 23, or leave blank.

2.7 NEW ROUTE IDX

Description: The NEW ROUTE IDX field is used to specify the route index which replaces the ROUTE INDEX for a particular time interval.

Valid Entries:

For 5E12 and earlier: 1 - 4095, or leave blank.

For 5E13 and later: Blank, or 1 - 16382

Data Rules:

When a NEW ROUTE IDX is entered, it must not be equal to ROUTE INDEX.

2.8 ACTIVE

Description: The ACTIVE field is used to indicate whether a particular time interval entry will be evaluated when selection of a NEW ROUTE IDX occurs.

Valid Entries: Y, N or blank

```
tdr                                5ESS Switch
SCREEN 1 OF 2                     OFFICE DATA ADMINISTRATION
(5571)                            TIME DEPENDENT ROUTING
```

*1. ROUTE INDEX ____

2. TIME INTERVALS

ROW	START DAY	START TIME	END DAY	END TIME	NEW ROUTE IDX	ACTIVE
1	____	____	____	____	____	__
2	____	____	____	____	____	__

3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---

tdr

5ESS Switch

SCREEN 2 OF 2

OFFICE DATA ADMINISTRATION

(5571)

TIME DEPENDENT ROUTING

2. TIME INTERVALS

ROW	START DAY	START TIME	END DAY	END TIME	NEW ROUTE	IDX	ACTIVE
7	---	---	---	---	---		---
8	---	---	---	---	---		---
9	---	---	---	---	---		---
10	---	---	---	---	---		---
11	---	---	---	---	---		---
12	---	---	---	---	---		---
13	---	---	---	---	---		---
14	---	---	---	---	---		---
15	---	---	---	---	---		---
16	---	---	---	---	---		---

Figure 1 SAMPLE TDR FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BM: 5572 RECORD TDMA OFFICE OPTIONS - TDMAOPT

1. GENERAL

The 5572 Record is available with the 5E12 Software Update and BMI (Beginning Managed Introduction) of the 5E13 Software Release. It provides the capability for specifying or verifying the global parameters for TDMA (Time Division Multiple Access).

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.56.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * KEY

Description: This field is used to access this form.

Required Field.

Default: 0

Valid Entries: 0

2.3 ECHO BP

Description: The Echo Canceller Bypass field indicates whether or not echo canceller is turned on for Switched Based TDMA Vocoders feature.

Default: N

Valid Entries: Y, N

2.4 PARAM 1

Description: This field is used to define tuning parameter 1 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.5 PARAM 2

Description: This field is used to define tuning parameter 2 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.6 PARAM 3

Description: This field is used to define tuning parameter 3 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.7 PARAM 4

Description: This field is used to define tuning parameter 4 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.8 PARAM 5

Description: This field is used to define tuning parameter 5 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.9 PARAM 6

Description: This field is used to define tuning parameter 6 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.10 PARAM 7

Description: This field is used to define tuning parameter 7 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.11 PARAM 8

Description: This field is used to define tuning parameter 8 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.12 PARAM 9

Description: This field is used to define tuning parameter 9 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.13 PARAM 10

Description: This field is used to define tuning parameter 10 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.14 PARAM 11

Description: This field is used to define tuning parameter 11 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.15 PARAM 12

Description: This field is used to define tuning parameter 12 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.16 PARAM 13

Description: This field is used to define tuning parameter 13 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.17 PARAM 14

Description: This field is used to define tuning parameter 14 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.18 PARAM 15

Description: This field is used to define tuning parameter 15 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

2.19 PARAM 16

Description: This field is used to define tuning parameter 16 for TDMA vocoders.

Default: 0

Valid Entries: 0 - 32767

tdmaopt		5ESS Switch	—
		OFFICE DATA ADMINISTRATION	
		TDMA OFFICE OPTIONS	
*1. KEY	0	13. PARAM 11	0
2. ECHO BP	N	14. PARAM 12	0
3. PARAM 1	0	15. PARAM 13	0
4. PARAM 2	0	16. PARAM 14	0
5. PARAM 3	0	17. PARAM 15	0
6. PARAM 4	0	18. PARAM 16	0
7. PARAM 5	0		
8. PARAM 6	0		
9. PARAM 7	0		
10. PARAM 8	0		
11. PARAM 9	0		
12. PARAM 10	0		

Figure 1 SAMPLE TDMAOPT FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 5BN: 5573 RECORD II DIGITS TABLE FORM - IIDIGTBL

1. GENERAL

The 5573 Record is available with 5E13 and later Software Releases and contains the information to route the call. A II Digits Screen bit is added to each entry of the ANI (Automatic Number Identification) Table and the LDP (Long Distance Platform) Carrier Table.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.57.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * II DIGITS

Description: This field is used to specify the II digits value associated with an LDP call.

Required Field.

Valid Entries: 0 - 99, or ANY for the wild card

2.3 * TGN

Description: This field used to specify the trunk group number.

Required Field.

Valid Entries: 1 - 4000, or ANY for the wild card

Data Rules:

When TGN exceeds 2000, the ACT field for Secured Feature ID (SFID) 172 must be set to "Y" on the SFSYS form (5713-1 Record).

2.4 DAS

Description: This field is used to specify the digit analysis selector or tree number used when interpreting incoming digits for routing and charging purposes.

Required Field.

Default: 000

Valid Entries:

For 5E14 and earlier: 0 - 99

For 5E15 and later: 0 - 254

Data Rules:

When IIDIGTBL forms have a known value for the DAS field which matches a DAS value on the DAS form, the LDIT value associated with the DAS must be distributed to all operational SMs (Switching Modules). This is accomplished by entering the LDIT value as the key on the SMLDIT form and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the list of SMs on the SMLDIT form.

When DAS is entered, DAS must be defined as DIGIT ANALYSIS SELECTOR on the DAS form where PREFIX/FEATURE DIT is entered.

2.5 SCR

Description: This field is used to specify the screening index which allows for different billing rates and routing.

Valid Entries: 1 - 4095, or blank

Data Rules:

When SCR is entered, SCR must be defined on the RAR form as SCR.

For 5E16(2) and later, when SCR is not entered, both RAX and CODE RESTRICT must be blank or 0.

2.6 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.7 CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) which should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.8 NET CALL DENIAL

Description: This field is used to specify whether or not an LDP call will be denied origination.

Required Field.

Default: N

Valid Entries: Y, N

2.9 ACCT CODE LENGTH

Description: This field is used to specify the number of account code digits that are expected. A value of 0 indicates that an account code is not expected.

Required Field.

Default: 0

Valid Entries: 0 - 15

2.10 FIXED CARRIER

Description: This field is used to specify the carrier used to route Inter-LATA calls.

Valid Entries: 0 - 9999, or blank

Data Rules:

When FIXED CARRIER is entered:

- TRIG NBR must not be entered.
- FIXED CARRIER must be defined as CARRIER ID on the ICF form where FEAT GROUP equals "D".

2.11 TRIG NBR

Description: This field is used to specify the trigger number to locate unique network service for dialed digits.

Valid Entries: 1 - 255, or blank

Data Rules:

When TRIG NBR is entered:

- FIXED CARRIER must not be entered.
- TRIG NBR on the NSTRIG form must be defined where APPLICATION equals "ASP" and AIN REL equals "R0D1".

2.12 TERM NSC

Description: This field is used to specify the terminating network selection code. It translates to a DAS and screening index for routing the call. It is applicable in LDP networks that employ MINT (Multifarious Intra-Network Trunk) processing.

Valid Entries: 0 - 999, or blank

Data Rules:

When TERM NSC is entered, TERM NSC on the LDPTNSC form must be defined.

iidigtbl	5ESS Switch	—
(5573)	OFFICE DATA ADMINISTRATION	
	II DIGITS TABLE	
*1. II DIGITS	_____	
*2. TGN	_____	
3. DAS	000	
4. SCR	_____	
5. NET CALL DENIAL	N	
6. ACCT CODE LENGTH	0	
7. FIXED CARRIER	_____	
8. TRIG NBR	_____	
9. TERM NSC	_____	

Figure 1 SAMPLE IIDIGTBL FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

iidigtbl	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5573)	II DIGITS TABLE	
*1. II DIGITS	_____	
*2. TGN	_____	
3. DAS	000	
4. SCR	_____	
5. RAX	_____	
6. CODE RESTRICT	_____	
7. NET CALL DENIAL	N	
8. ACCT CODE LENGTH	0	
9. FIXED CARRIER	_____	
10. TRIG NBR	_____	
11. TERM NSC	_____	

Figure 2 SAMPLE IIDIGTBL FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5BO: 5574 RECORD ROUTE INDEX LIST FORM - RTLIST

1. GENERAL

1.1 Route Index List Definition

This form allows for a list of route indices to be linked or chained together for the purposes of searching for a non-busy route. A route index is used to determine a network path for call completion. If the call is unable to complete it is routed to an error treatment source as determined by the route index. The position of the route indices in the list indicates the sequence in which they are searched. When a LDP (Long Distance Platform) call is originated, it proceeds routing to the trunk group associated with the first route index in the list. Upon finding no available members in the trunk group, the call routes to the trunk group associated with the next route index in the list. This process continues until an available path is found or until the route index list is exhausted. If the call routes through the list without finding an idle trunk group, attempts to queue or apply Final Route Trigger are made, if assigned and active, before sending the call to final treatment. When a route index list exists, the NEXT ROUTE field on the RTIDX form is not used.

1.2 Recent Change View

The corresponding Recent Change View for RTLIST is 10.40.

2. FORM ENTRIES - 5574 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * RTIDX

Description: RTIDX is the first route index in the list and acts as the key field for this form. It uniquely identifies a list of route indices. The value in this field must be unique in that a route index can only be used as a key for a list once.

Software Release: 5E13 and later.

Valid Entries: 1 - 16382

ROUTE INDEX LIST

For 5E13 and later, this is a list of route indices with associated route type, trunk group number, digits deleted, prefix digit, signaling protocol and final route trigger. Also, a remarks field is included for each route index in the list. The order of the route indices in the list determines the sequence in which they are searched to find an available route path. Refer to Section 2.3 - Section 2.10 for individual field information.

2.3 RTI

Description: This field specifies a route index. The routing sequence is determined by the position of the route index in the list.

Software Release: 5E13 and later.

Valid Entries: 1 - 16382

Data Rules:

The RTI in row 1 of the ROUTE INDEX LIST (RTILIST) must match the RTIDX key.

Each RTI in the ROUTE INDEX LIST (RTILIST) must be unique.

Each RTI in the ROUTE INDEX LIST (RTILIST) must be defined on the RTIDX form.

Only the last RTI in the ROUTE INDEX LIST (RTILIST) may have:

ROUTE TYPE equal to "DNTRAN" or "REORDER"

an entry in the FNL RT TRIG NBR field

on the corresponding RTIDX form.

2.4 ETYP

Description: This field is a no change field and displays the type of routing associated with this route index.

Software Release: 5E13 and later.

Valid Entries: HUNT, DNTRAN, REORDER, BUSY, or MAIN

NOTE: Refer to Division 3 Section 3p, Route Index Form - RTIDX, for details on specific route types.

2.5 TGN

Description: This field is a no change field. It displays the group number of the trunk group to be routed to based on the associated RTI in the list.

Software Release: 5E13 and later.

Valid Entries:

For 5E13 and 5E14: 0 - 4000

For 5E15: 1 - 4000 for circuit trunk groups or 7000 - 7999 for BICC groups

For 5E16(2) and later: 1 - 4000

2.6 DIG DLT

Description: This field is a no change field which displays the number of digits to be deleted.

Software Release: 5E13 and later.

Valid Entries: 00 - 15

2.7 PRF DIG

Description: This is a no change field that displays the digits to be prefixed for outpulsing.

Software Release: 5E13 and later.

Valid Entries: 1 - 10 or blank

2.8 SIG PRO

Description: This is a no change field that displays the type of signaling protocol for the

Software Release: 5E13 and later.

Valid Entries: EA, FGB, INC, INCM, MEA, PNANI or TRAD

■ **NOTE:** Refer to Division 3 Section 3p, Route Index Form - RTIDX, for details on these valid entries..

2.9 FNL TRIG

Description: This is a no change field which displays the final route trigger that is used when the route index list has been exhausted.

Software Release: 5E13 and later.

Valid Entries: 1 - 255 or blank

2.10 RMK

Description: This field is a no change field which displays optional remarks or comments pertinent to the associated RTI.

Software Release: 5E13 and later.

Valid Entries: Up to 16 alphanumeric characters (including special characters and/or blanks)

```
rtlist                      5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5574)                     ROUTE INDEX LIST
```

*1. RTIDX _____

```

                2. ROUTE INDEX LIST (RTILIST)
                DIG PRF      SIG  FNL
ROW RTI  ETYP  TGN  DLT DIG  PRO  TRIG RMK  TDR
1  _____  _____  _____  _____  _____  _____  _____  _____
2  _____  _____  _____  _____  _____  _____  _____  _____
3  _____  _____  _____  _____  _____  _____  _____  _____
4  _____  _____  _____  _____  _____  _____  _____  _____
5  _____  _____  _____  _____  _____  _____  _____  _____
6  _____  _____  _____  _____  _____  _____  _____  _____
7  _____  _____  _____  _____  _____  _____  _____  _____
```

```
rtlist                      5ESS Switch
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5574)                     ROUTE INDEX LIST
```

```
                2. ROUTE INDEX LIST (RTILIST)
```

ROW	RTI	ETYP	TGN	DIG	PRF	SIG	FNL			
				DLT	DIG	PRO	TRIG	RMK		TDR
8	_____	_____	_____	___	_____	_____	_____	_____		—
9	_____	_____	_____	___	_____	_____	_____	_____		—
10	_____	_____	_____	___	_____	_____	_____	_____		—
11	_____	_____	_____	___	_____	_____	_____	_____		—
12	_____	_____	_____	___	_____	_____	_____	_____		—
13	_____	_____	_____	___	_____	_____	_____	_____		—
14	_____	_____	_____	___	_____	_____	_____	_____		—
15	_____	_____	_____	___	_____	_____	_____	_____		—
16	_____	_____	_____	___	_____	_____	_____	_____		—

Figure 1 SAMPLE RTLIST FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 5BP: 5575 RECORD AUTOMATIC NUMBER IDENTIFICATION INDEX TABLE - ANITABLE

1. GENERAL

The 5575 Record is available with 5E13 and later Software Releases and contains the ANI's designating special treatment when a match occurs with an incoming LDP (Long Distance Platform) call based on an index-defined option set, which is on the LDPINDEX form.

This form supports the ANI Table Index feature which is an evolution of the TDX (Toll Digital Exchange) ANI Table Processing Feature SFID 235.

See Div. 2, Sec. 4A165 (Toll Digital Exchange Basic Call Processing For Toll 5ESS Switch) for details.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.58

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *NPA

Description: The NPA field is used to specify the Numbering Plan Area code.

Required Field.

Valid Entries: 200 - 999, or 000 for default ANI table entry.

Data Rules:

When NPA is 000, NXX must be 000, LINE must be 0000, LDP CARRIER must be 10000, and INDEX must be 0.

When NPA and NXX have been assigned on the ANITABLE form, NPA and NXX must be defined on an ANIMOD form.

When TRKCLS on the TKGRP form is "IC", "LATA" or "TTOLLCON", and LDP on the TKGRP form is "Y", then there must be an ANITABLE form with NPA equal to 000, NXX equal to 000 and LINE equal to 0000.

2.3 *NXX

Description: The NXX field is used to specify the Office Code associated with this NPA. Enter the NPA portion of the ANI.

Required Field.

Valid Entries: Enter a number from 000 to 999. For default ANI table entry enter 000 with an NPA of 000. For a 3-digit ANI, enter 000 with a valid NPA and LINE equal to 0000.

2.4 *LINE

Description: The LINE field is used to specify the Local DN minus the office code.

Required Field.

Valid Entries: Enter a four-digit number from 0000 to 9999, or ANY for the wild card digits. For the default ANI, enter 0000 with an NPA and NXX of 000. For a 3-digit ANI, enter 0000 with an NXX of 000 and a valid NPA.

2.5 *LDP CARRIER

Description: The Long Distance Platform Carrier field is used to specify a carrier for the call. This field supports the Multiple CIC (Carrier Identification Code) Support for LDP (Long Distance Platform) Feature. For more information see Div. 2, Sec. 4A165.

Valid Entries: Enter 0-9999, or 10000 for the default carrier, or ANY for the wild card carrier.

Data Rules:

When LDP CARRIER is 10000, NPA must be 000, NXX must be 000, and LINE must be 0000.

When the LDP CARRIER field is entered on the ANITABLE form, LDP CARRIER must be defined on a corresponding LDPCTBL form with CARRIER PRESUBSCD equal to "Y".

2.6 INDEX

Description: Long Distance Platform index.

Valid Entries: 0, 10 - 131071

Data Rules:

When INDEX is 0, NPA must be 000, NXX must be 000, LINE must be 0000, and LDP CARRIER must be 10000.

The INDEX field on the ANITABLE form must be defined on the LDPINDEX form.

```

anitable                                5ESS Switch      —
                                OFFICE DATA ADMINISTRATION
(5575)                                AUTOMATIC NUMBER IDENTIFICATION INDEX TABLE

*1. NPA                               ____
*2. NXX                               ____
*3. LINE                             ____
*4. LDP CARRIER                     ____
#5. INDEX                            ____

```

Figure 1 SAMPLE ANITABLE FORM 5E13 AND LATER SOFTWARE RELEASE

SEC. 5BQ: 5576 RECORD LONG DISTANCE PLATFORM (LDP) INDEX FORM - LDPINDEX

1. GENERAL

The 5576 Record is available with 5E13 and later Software Releases and contains the option set for the ANITABLE form.

For more information see Division 2, Section 4A165.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.59.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * INDEX

Description: Long distance platform index.

Required Field.

Valid Entries: Enter 10 - 131071 or 0 for the default ANI table entry.

Data Rules:

When INDEX is 0 (default ANI table entry) DAS must be entered and not 00.

For 5E14 and later, a LDPINDEX form must exist with INDEX equal to 0.

LDP BASIC CALL PROCESSING

The following fields (Section 2.3 - Section 2.5) supports the LDP (Long Distance Platform) Basic Call Processing capabilities.

2.3 DAS

Description: This field is used to specify the digit analysis selector or tree number used when interpreting incoming digits for routing and charging purposes.

Required Field.

Default: 00

Valid Entries:

For 5E14 and earlier: 0 - 99

For 5E15 and later: 0 - 254

Data Rules:

When INDEX is 0 (default ANI table entry), DAS must be entered and not 00.

When the DAS field is entered on the LDPINDEX form, it must be defined on a DAS form as the DIGIT ANALYSIS SELECTOR value with a PREFIX/FEATURE DIT value entered.

When the DAS field is entered on the LDPINDEX form and the DAS field is defined as a DIGIT ANALYSIS SELECTOR on a DAS form, the value of the LOCAL DIT for the LINE DAS on the corresponding DAS form must be entered. Also, the LOCAL DIT must be defined as a LDIT on the corresponding SMLDIT for every operational SM in the office.

This must be accomplished by entering a SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the LIST OF SWITCHING MODULES.

2.4 SCR

Description: This field is used to specify the screening index which allows for different billing rates and routing.

Valid Entries: 1 - 4095, or blank

Data Rules:

When the SCR field is entered on the LDPINDEX form, this SCR must be defined on a corresponding RAR form.

When SCR is not entered, both RAX and CODE RESTRICT must be blank or 0.

2.5 TERM NSC

Description: This field is used to specify the terminating network selection code. It translates to a DAS and screening index for routing the call. It is applicable in LDP networks that employ MINT (Multifarious Intra-Network Trunk) processing.

Valid Entries: 0 - 999, or blank

Data Rules:

When the TERM NSC is entered on the LDPINDEX form, the TERM NSC must be defined on the LDPTNSC form.

2.6 RAX

Description: This field indicates the rate center assigned to the Trunk being used.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.7 CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) which should be blocked.

Software Release: 5E16(2) FR 5 and later

Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

LDP ENHANCED CALL PROCESSING

The following fields (Section 2.8 - Section 2.12) supports the LDP (Long Distance Platform) Enhanced Call Processing capabilities.

2.8 NET CALL DENIAL

Description: This field is used to specify whether or not an LDP call will be denied origination.

Required Field.

Default: N

Valid Entries: Y, N

2.9 ACCT CODE LENGTH

Description: This field is used to specify the number of account code digits that are expected. A value of 0 indicates that an account code is not expected.

Required Field.

Default: 0

Valid Entries: 0 - 15

2.10 FIXED CARRIER

Description: This field is used to specify the carrier used to route Inter-LATA calls.

Valid Entries: 0 - 9999, or blank

Data Rules:

When FIXED CARRIER is entered TRIG NBR must not be entered.

When the FIXED CARRIER field is entered on the LDPINDEX form, FIXED CARRIER must be defined on a corresponding ICF form with FEAT GRP equal to "D".

2.11 TRIG NBR

Description: This field is used to specify the trigger number to locate unique network service for dialed digits. If this field is entered, a query will be launched to an external database.

Valid Entries: 1 - 255, or blank

Data Rules:

When TRIG NBR is entered, FIXED CARRIER must not be entered.

When the TRIG NBR field is entered on the LDPINDEX form, TRIG NBR must be defined on a corresponding NSTRIG form with APPLICATION equal to "ASP" and AIN REL equal to "R0D1".

2.12 II SCREEN

Description: The II SCREEN field is used to indicate if call processing should use the ANI data from the IIDIGTBL form to route the call.

Default: N

Valid Entries: Y, N

2.13 REMARKS

Description: The REMARKS field is used to enter remarks for the index used by ANIs.

Valid Entries: Enter up to 12 alphanumeric characters.

2.14 USED BY COUNT

Description: The USED BY COUNT field is used to hold the number of ANIs which use this index.

Valid Entries: 0 - 9999999

```

ldpindex                      5ESS Switch          _
                                OFFICE DATA ADMINISTRATION
(5576)                        LONG DISTANCE PLATFORM (LDP) INDEX TABLE

*1. INDEX _____        LDP ENHANCED CALL PROCESSING
                                5. NET CALL DENIAL    N
LDP BASIC CALL PROCESSING    6. ACCT CODE LENGTH 0
2. DAS      00              7. FIXED CARRIER      _____
3. SCR      _____      8. TRIG NBR              _____
4. TERM NSC  _____      9. II SCREEN            N

                                10. REMARKS           _____
                                    USED BY COUNT      _____

```

Figure 1 SAMPLE LDPINDEX FORM 5E14 AND EARLIER SOFTWARE RELEASE

```

ldpindex                      5ESS Switch          _
                                OFFICE DATA ADMINISTRATION
(5576)                        LONG DISTANCE PLATFORM (LDP) INDEX TABLE

*1. INDEX _____        LDP ENHANCED CALL PROCESSING
                                5. NET CALL DENIAL    N
LDP BASIC CALL PROCESSING    6. ACCT CODE LENGTH 0
2. DAS      000            7. FIXED CARRIER      _____
3. SCR      _____      8. TRIG NBR              _____
4. TERM NSC  _____      9. II SCREEN            N

                                10. REMARKS           _____
                                    USED BY COUNT      _____

```

Figure 2 SAMPLE LDPINDEX FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```

ldpindex                      5ESS Switch          _
                                OFFICE DATA ADMINISTRATION
(5576)                        LONG DISTANCE PLATFORM (LDP) INDEX TABLE

*1. INDEX _____        LDP ENHANCED CALL PROCESSING
                                7. NET CALL DENIAL    N

```

LDP BASIC CALL PROCESSING	8. ACCT CODE LENGTH 0
2. DAS 000	9. FIXED CARRIER _____
3. SCR _____	10. TRIG NBR _____
4. TERM NSC _____	11. II SCREEN N
5. RAX _____	12. REMARKS _____
6. CODE RESTRICT _____	USED BY COUNT _____

Figure 3 SAMPLE LDPINDEX FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5BR: SETTINGS OF TRAFFIC MEASUREMENTS REPORTS FORM - MEASRET

1. GENERAL

The form is used to retrofit the TRFMSET Relation, and is made available with the 5E16(1) FR 2 Software Release. This form is used only for Retrofit. It supports the Reserve the Settings of Traffic Measurements Reports feature. For more information on this feature, see Division 2, Section 2AC.

1.1 Recent Change View

There is no corresponding Recent Change View for this form.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * INDEX

Description: This field indicates the key that is used to access a particular tuple in the TRFMSET Relation.

Required Field.

Software Release: 5E16(1) FR 2 and later

Valid Entries: 0 - 511

2.3 COMP LIST

Description: The Component List field contains information about the settings of Traffic Measurements reports needed to define them.

Software Release: 5E16(1) FR 2 and later

Valid Entries: 8 alphanumeric characters

```
measret                      5ESS Switch
SCREEN 1 OF 3                OFFICE DATA ADMINISTRATION
      Settings of Traffic Measurements Reports (RETROFIT ONLY)
```

*1. INDEX 1

2. COMP LIST

ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP
1	_____	9	_____	17	_____	25	_____	33	_____	41	_____
2	_____	10	_____	18	_____	26	_____	34	_____	42	_____
3	_____	11	_____	19	_____	27	_____	35	_____	43	_____
4	_____	12	_____	20	_____	28	_____	36	_____	44	_____
5	_____	13	_____	21	_____	29	_____	37	_____	45	_____
6	_____	14	_____	22	_____	30	_____	38	_____	46	_____
7	_____	15	_____	23	_____	31	_____	39	_____	47	_____

8 _____ 16 _____ 24 _____ 32 _____ 40 _____ 48 _____

measret 5ESS Switch
 SCREEN 2 OF 3 OFFICE DATA ADMINISTRATION
 Settings of Traffic Measurements Reports (RETROFIT ONLY)

2. COMP LIST

ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP
49	_____	57	_____	65	_____	73	_____	81	_____	89	_____
50	_____	58	_____	66	_____	74	_____	82	_____	90	_____
51	_____	59	_____	67	_____	75	_____	83	_____	91	_____
52	_____	60	_____	68	_____	76	_____	84	_____	92	_____
53	_____	61	_____	69	_____	77	_____	85	_____	93	_____
54	_____	62	_____	70	_____	78	_____	86	_____	94	_____
55	_____	63	_____	71	_____	79	_____	87	_____	95	_____
56	_____	64	_____	72	_____	80	_____	88	_____	96	_____

measret 5ESS Switch —
 SCREEN 3 OF 3 OFFICE DATA ADMINISTRATION
 Settings of Traffic Measurements Reports (RETROFIT ONLY)

2. COMP LIST

ROW	COMP	ROW	COMP	ROW	COMP	ROW	COMP
97	_____	105	_____	113	_____	121	_____
98	_____	106	_____	114	_____	122	_____
99	_____	107	_____	115	_____	123	_____
100	_____	108	_____	116	_____	124	_____
101	_____	109	_____	117	_____	125	_____
102	_____	110	_____	118	_____	126	_____
103	_____	111	_____	119	_____	127	_____
104	_____	112	_____	120	_____		

Figure 1 SAMPLE MEASRET FORM 5E16(1) AND LATER SOFTWARE RELEASES

SEC. 5BS: 5578 RECORD TOLLFREE/DEFAULT ANI II - TFANI

1. GENERAL

The 5578 Record is available with 5E11 and later Software Releases. The Tollfree/Default ANI (Automatic Number Identification) II form is used to map Original II digits to Default II digits and Tollfree II digits.

The Pay Phone Compensation for Tollfree Calls and Tollfree Calling Enhancement for Flexible ANI features are secured features (both under SFID 332) that must be set to "Y" before the TFANI form can be populated.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.74.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * ORIGINAL II

Description: This field is used to specify the Original ANI II digits as determined by call processing. For Access Tandems, these are the II digits received in the signaling message from the end office. For translation numbers, the original II digits are the SCP returned II digits. These ANI II digits identify the originating line class-of-service.

Required Field.

Valid Entries: 00 - 99

2.3 TOLLFREE II

Description: This field is used to specify the mapped ANI II digits that will be sent if the carrier does not accept original II digits for translated tollfree calls. If blank, no new modification to the ANI II digits will be made.

Valid Entries: 00 - 99 or blank

2.4 DEFAULT II

Description: This field is used to specify the mapped ANI II digits that will be sent if the carrier does not accept Original II digits for non-translated tollfree calls. If blank, no new modification to the ANI II digits will be made.

Valid Entries: 00 - 99 or blank

2.5 REMARKS

Description: This field is for optional remarks or for a descriptive comment.

Valid Entries: Enter up to 16 characters (includes alphanumeric, special characters, or blank).

tfani

5ESS Switch
OFFICE DATA ADMINISTRATION

—

(5578) TOLLFREE/DEFAULT ANI II

- *1. ORIGINAL II ____
- 2. TOLLFREE II ____
- 3. DEFAULT II ____
- 4. REMARK _____

Figure 1 SAMPLE TFANI FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 5BU: 5580 RECORD OLD NPANXX MAPPING TO NEW NPA - NPANXX

1. GENERAL

The NPANXX form (5580 Record) is available with 5E13 and later Software Releases, and is used to map an old NPA (Numbering Plan Area) NXX (Office Code (Part of Dialed Number)) to a new NPA. Specifying the OLD NXX is optional. The new NPA is used in an announcement stating the transition to the new NPA. The office code is commonly referred to as the "NXX" which are the three digits (e.g., telephone exchange) after the NPA (commonly referred to as the "area code").

The NPANXX form was added to support the Announcement on Detection of NPA Split feature. This is a secured feature with an SFID of 347 that must be activated before using this form. For more detailed information on activating this feature, see Division 2, Section 4A347.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *OLD NPA

Description: Enter the 3-digit old NPA that is being split. NPAs are normally in the following range: N is 2-9; P is 0-9; A is 0-9.

Required Field.

Software Release: 5E13 and later

Valid Entries: 200 - 999

Data Rules:

When two or more NPANXX forms have the same value of OLD NPA, the OLD NXX must be entered on all of the NPANXX forms.

2.3 (*)OLD NXX

Description: Enter the 3-digit old Office Code. NXXs are normally in the following range: N is 0-9; X is 0-9; X is 0-9. This field is optional.

Software Release: 5E13 and later

Valid Entries: 000 - 999

2.4 #NEW NPA

Description: Enter the 3-digit new NPA created. NPAs are normally in the following range: N is 2-9; P is 0-9; A is 0-9.

Required Field.

Software Release: 5E13 and later

Valid Entries: 200 - 999

npnxxx	5ESS Switch	—
	OFFICE DATA ADMINISTRATION	
(5580)	OLD NPANXX MAPPING TO NEW NPA	
*1. OLD NPA ____		
(*) 2. OLD NXX ____		
#3. NEW NPA ____		

Figure 1 SAMPLE NPANXX FORM 5E13 AND LATER SOFTWARE RELEASES

SEC. 5BW: 5590 RECORD NO TEST TRUNK (NTT) UNIT - NTTU

1. GENERAL

The 5590 Record is available with the 5E16(2) and later Software Releases. The No Test Trunk (NTT) Unit form is used to define an NTT unit and MTB (Metallic Test Bus) pairs reserved for each testing trunk connected to NTT unit. It also contains information about equipment locations for MSU (Metallic Service Unit) of the first MTB 0 associated with the NTT unit and the related digital trunk unit which is used for NTT trunk assignments.

1.1 Recent Change View

The corresponding Recent Change view for this form is 14.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * NTT UNIT ID

Description: The NTT UNIT ID field indicates the NTT unit identifier being unique in the office.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 1 - 99

2.3 SM

Description: The SM field indicates the switching module where the MSU of the first MTB 0 associated to NTT unit is located. This is a display only field.

Software Release: 5E16(2) and later
Valid Entries: 1 - 192

2.4 EQL BAY

Description: The EQL BAY field indicates the equipment location bay number for the MSU of the first MTB 0 associated with the NTT unit.

Software Release: 5E16(2) and later
Valid Entries:

00 to 84
0 - 14, 100 - 104, or 200 - 208 for an SM2000.

2.5 EQL UNVER

Description: The EQL UNVER field indicates the equipment location vertical position number for the MSU of the first MTB 0 associated with the NTT unit.

Software Release: 5E16(2) and later
Valid Entries: 00 - 84

2.6 EQL AISLE

Description: The EQL AISLE field indicates the equipment location (floor and aisle) number for the MSU of the first MTB 0 associated with the NTT unit.

Software Release: 5E16(2) and later
Valid Entries:

- 00 - 99 for floor number
- 00 - 99 for aisle number

2.7 DIGITAL TRUNK UNIT

Description: The DIGITAL TRUNK UNIT field indicates the equipment number (composite equipment number consisting of DTUTYP and DTUNBR) of the digital trunk unit used for assignment of NTT trunk that are connected to the NTT unit.

Software Release: 5E16(2) and later
Valid Entries:

Digital Trunk Unit Type Valid Entries	
Entry	Definition
D	DEN [Digital Line and Trunk Unit (DLTU) Equipment Number.
N	NEN [Digital Networking Unit - SONET (DNU-S) Equipment Number.

Digital Trunk Unit Equipment Number for DEN			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
DLTU (digital line trunk unit)	DLTU	XXX	000 - 011
DFI (digital facility interface)	DFI	XX	01 - 10
FACIND (facility indicator)	FAC IND	X	1 - 2

Digital Trunk Unit Equipment Number for NEN			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
DNU-S (digital networking unit - SONET)	DNU-S	X	0 - 7
DG (data group)	DG	X	0 - 1
STE (SONET termination equipment)	STE	X	1 - 6
STS (synchronous transport signal)	STS	X	1
VTG (virtual tributary group)	VTG	X	1 - 7
VTM (virtual tributary member)	VTM	X	1 - 4

MTB ASSIGNMENT LIST (MTBLIST)

The MTB assignment list contains MTB pairs associated to DS0's of NTT Unit related to testing trunks connected to this unit and assigned to respective channels of digital trunk unit. The channel 1 is used for Signaling Converter Control Trunk (SCCT), and testing trunks are assigned to channels 2 thru 13 of digital trunk unit.

2.8 MTB0

Description: The MTB0 field indicates the Metallic Test Bus 0 associated with a NTT testing trunk. It is used for configuration and verification of a trunk.

Software Release: 5E16(2) and later

Valid Entries:

MTB0 Valid Entries			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SG	X	0 - 1
Board	BD	XX	00 - 31
Bus	BUS	XX	00 - 14

Data Rules:

MTB0 for CHNL 2 must be entered.

2.9 MTB1

Description: The MTB1 field indicates the Metallic Test Bus 1 associated with a NTT testing trunk. It is used for configuration and verification of a trunk.

Software Release: 5E16 and later

Valid Entries:

MTB1 Valid Entries			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192
Metallic Service Unit	MSU	X	0 - 1
Service Group	SG	X	0 - 1
Board	BD	XX	00 - 31
Bus	BUS	XX	00 - 14

Data Rules:

All entered.MTB0 and MTB1 must be unique.

```

nttu                                5ESS Switch      _
                                OFFICE DATA ADMINISTRATION
(5590)                            NO TEST TRUNK (NTT) UNIT

*1. NTT UNIT ID  _      EQL UNVER      _
    SM          _      EQL AISLE      _
    EQL BAY     _      DIGITAL TRUNK UNIT _
  
```

```

          9. MTB ASSIGNMENT LIST (MTBLIST)
ROW CHNL MTB0      MTB1      ROW CHNL MTB0      MTB1
1   2   _         _         7   8   _         _
2   3   _         _         8   9   _         _
3   4   _         _         9   10  _         _
4   5   _         _        10   11  _         _
5   6   _         _        11   12  _         _
6   7   _         _        12   13  _         _
  
```

Figure 1 SAMPLE NTT (NO TEST TRUNK) UNIT 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5CA: 5586 RECORD INWATS NPA TABLE

1. GENERAL

The 5586 Record supports a 5E15 proprietary feature.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.34.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 *INWATS NPA

Description: This is a proprietary feature.

inwatnpa	5ESS Switch	_
(5586)	OFFICE DATA ADMINISTRATION	
	INWATS NPA TABLE	
*1. INWATS NPA ____		

Figure 1 SAMPLE INWATS NPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5CB: 5766 Record OIU CARRIER GROUP ALARM INTEGRATION TIMESGROUP FORM - CGATIME

1. GENERAL

The 5766 Record is available with 5E16(2) and later Software Releases. It is used to insert, review, update, and delete CGA (Carrier Group Alarm) groups which define alarm ON/OFF integration times of Alarm Indication Signals, Local Alarms, and Remote Alarms on all OIU facilities. This form supports the following features:

OIU (Optical Interface Unit) OC-3 (Optical Carrier Level 3) NAR (North American Region) feature (99-5E-7140). For more information, see Division 2, Section 7BQ.

OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. (For more information on this feature, see Division 2, Section 7BX.)

1.1 Recent Change View

The Recent Change View for this form is 20.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * CGA GROUP

Description: This field is used to specify the name for a Carrier Group Alarm group.

Software Release: 5E16(2) and later

Valid Entries: Blank, or 1 - 8 alphanumeric characters

2.3 SONET TYPE

Description: This field is used to indicate whether or not the associated CGA Group is for SONET (Synchronous Optical Networking) type STE, HVC, and LVC facilities.

Software Release: 5E16(2) and later

Valid Entries: Y, N

Data Rules:

When SONET TYPE is "Y":

ST AIS must be 1.0 - 10.0 by 0.5

ST LOCAL must be 1.0 - 10.0 by 0.5

ST REMOTE must be 1.0 - 10.0 by 0.5

CL AIS must be 1.0 - 200.0 by 0.5

CL LOCAL must be 1.0 - 200.0 by 0.5

CL REMOTE must be 1.0 - 200.0 by 0.5

The ratio of timers CL AIS to ST AIS cannot exceed 20:1.

The ratio of timers CL LOCAL to ST LOCAL cannot exceed 20:1.

The ratio of timers CL REMOTE to ST REMOTE cannot exceed 20:1.

When SONET TYPE is "N":

ST AIS must be 0.1 - 60.0 by 0.1

ST LOCAL must be 0.1 - 60.0 by 0.1

ST REMOTE must be 0.1 - 60.0 by 0.1

CL AIS must be 0.1 - 1200.0 by 0.1

CL LOCAL must be 0.1 - 1200.0 by 0.1

CL REMOTE must be 0.1 - 1200.0 by 0.1

The ratio of timers ST AIS to CL AIS cannot exceed 20:1.

The ratio of timers CL AIS to ST AIS cannot exceed 20:1.

For the timers CL AIS and ST AIS, the smaller must divide evenly into the larger.

The ratio of timers ST LOCAL to CL LOCAL cannot exceed 20:1.

The ratio of timers CL LOCAL to ST LOCAL cannot exceed 20:1.

For the timers CL LOCAL and ST LOCAL, the smaller must divide evenly into the larger.

The ratio of timers ST REMOTE to CL REMOTE cannot exceed 20:1.

The ratio of timers CL REMOTE to ST REMOTE cannot exceed 20:1.

For the timers ST REMOTE and CL REMOTE, the smaller must divide evenly into the larger.

2.4 REMARKS

Description: This field is used to save any remarks associated with this CGA group.

Software Release: 5E16(2) and later

Valid Entries: Blank, or 1 - 32 alphanumeric characters

2.5 STAIS

Description: The SONET Set Alarm Indication Signal field sets the amount of time (in seconds) an AIS (Alarm

Indication Signal) should integrate before declaring a CGA SET on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 2.5

Valid Entries:

1.0 - 10.0 seconds in 0.5 second increments, or

0.1 - 60.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

2.6 STLCL

Description: The SONET Set Local field sets the amount of time (in seconds) an local alarm should integrate before declaring a CGA SET on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 2.5

Valid Entries:

1.0 - 10.0 seconds in 0.5 second increments, or

0.1 - 60.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

2.7 STRMT

Description: The SONET SET Remote field sets the amount of time (in seconds) a remote alarm should integrate before declaring a CGA SET on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 0.5

Valid Entries:

1.0 - 10.0 seconds in 0.5 second increments, or

0.1 - 60.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

2.8 CLAIS

Description: The SONET Clear Alarm Indication Signal field sets the amount of time (in seconds) an AIS alarm should de-integrate before declaring a CGA CLEAR on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 10

Valid Entries:

1.0 - 200.0 seconds in 0.5 second increments, or

0.1 - 1200.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

2.9 CLLCL

Description: The SONET Clear Local field sets the amount of time (in seconds) a local alarm should

deintegrate before declaring a CGA CLEAR on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 10

Valid Entries:

1.0 - 200.0 seconds in 0.5 second increments, or

0.1 - 1200.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

2.10 CLRMT

Description: The SONET Clear Remote field sets the amount of time (in seconds) a remote alarm should deintegrate before declaring a CGA CLEAR on any facility subscribing to this provisioning group.

Software Release: 5E16(2) and later

Default: 0.1

Valid Entries:

1.0 - 200.0 seconds in 0.5 second increments, or

0.1 - 1200.0 seconds in 0.1 second increments (dependent upon the value of SONET TYPE)

```

cgatime                               5ESS Switch
                                     OFFICE DATA ADMINISTRATION
(5766)                               CARRIER GROUP ALARM INTEGRATION TIMES

*1. CGA GROUP _____
#2. SONET TYPE _
  3. REMARKS _____
#4. STAIS      _____. _
#7. STLCL      _____. _
#10. STRMT     _____. _
#13. CLAIS     _____. _
#16. CLLCL     _____. _
#19. CLRMT     _____. _

```

Figure 1 SAMPLE CGATIME FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5CC: 5767 Record

OIU PERFORMANCE MONITORING - THRESHOLD

GROUP FORM - OIUPM

1. GENERAL

The 5767 Record is available with 5E16(2) and later Software Releases. It is used to insert, review, update, and delete PM (Performance Monitoring) thresholds for OIU transport facilities. This form supports the following features:

OIU (Optical Interface Unit) OC-3 (Optical Carrier Level 3) NAR (North American Region) feature (99-5E-7140). For more information, see Division 2, Section 7BQ.

OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. (For more information on this feature, see Division 2, Section 7BX.)

1.1 Recent Change View

The Recent Change View for this form is 20.32.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * PM GROUP

Description: The PM (Performance Monitoring) Group field is used to specify a name for a PM group.

Software Release: 5E16(2) and later

Valid Entries: Blank, or 1 - 8 alphanumeric characters

2.3 REMARKS

Description: This field is used to save any remarks associated with this PM group.

Software Release: 5E16(2) and later

Valid Entries: Blank, or 1 - 32 alphanumeric characters

2.4 # CKT TYPE

Description: This field is used to specify what types of OIU facilities this PM group can be assigned to. Required field.

Software Release: 5E16(2) and later

Valid Entries:

Valid CKT TYPE Entries	
Entry	Definition
DS1	OIU Digital Signal - Level 1 Facility .
OC3	OIU - SONET Terminating Equipment facility.
OC3C	Optical Carrier level 3 Concatenated signal .

PPPLNK	Point-to-Point Link facility.
STS1FAC	OIU - Synchronous Transport Signal Facility.
STS3C	OIU Synchronous Transport Signal Facility.
VT15	OIU - Virtual Tributary 1.5 Facility

Data Rules:

When CKT TYPE is "OC3" or "OC3C":

LESDAT must be blank or 1 - 65535.

LSESDAT must be blank or 1 - 65535.

LES15MAT must be blank or 1 - 900.

LSES15MAT must be blank or 1 - 900.

PFLSDAT must be blank or 1 - 65535.

PFLS15MAT must be blank or 1 - 900.

When CKT TYPE is "STS1FAC", "VT15", or "DS1":

PESDAT must be blank or 1 - 65535.

PSESDAT must be blank or 1 - 65535.

PUASDAT must be blank or 1 - 65535.

PES15MAT must be blank or 1 - 900.

PSES15MAT must be blank or 1 - 900.

PUAS15MAT must be blank or 1 - 900.

When CKT TYPE is "DS1":

PFLSDAT must be blank or 1 - 65535.

PSSDAT must be blank or 1 - 65535.

PFLS15MAT must be blank or 1 - 900.

PSS15MAT must be blank or 1 - 900.

PUAS15MAT must be blank or 1 - 900.

PSESDAT must be blank or 1 - 65535.

PUASDAT must be blank or 1 - 65535.

PES15MAT must be blank or 1 - 900.

PSES15MAT must be blank or 1 - 900.

When CKT TYPE is "STS3C":

PESDAT must be blank or 1 - 65535.

PSESDAT must be blank or 1 - 65535.

PUASDAT must be blank or 1 - 65535.

CV15MAT must be blank or 1 - 16383

PES15MAT must be blank or 1 - 900.

PSES15MAT must be blank or 1 - 900.

PUAS15MAT must be blank or 1 - 900.

When CKT TYPE is "PPPLNK":

CVDAT, LESDAT, LSESDAT, PESDAT, PSESDAT, PUASDAT, PFLSDAT, PSSDAT, CV15MAT, LES15MAT, LSES15MAT, PES15MAT, PSES15MAT, PUAS15MAT, PFLS15MAT, and PSS15MAS must all be blank.

When CKT TYPE is not "PPPLNK":

IPHDAT, IPCDAT, USPDAT, IIHDAT, IIQDAT, IIFDAT, ICRDAT, IDC DAT, ICPDAT, ICEDAT, ICTDAT, UURDAT, EURDAT, RDL DAT, ERRDAT, URVDAT, URIDAT, IPH15MAT, IPC15MAT, USP15MAT, IIH15MAT, IIQ15MAT, IIF15MAT, ICR15MAT, ICD15MAT, ICP15MAT, ICE15MAT, ICT15MAT, UUR15MAT, EUR15MAT, RDL15MAT, ERR15MAT, URV15MAT, and URI15MAT must all be blank.

IPHDAT must be blank or 1 - 65535.

IPCDAT must be blank or 1 - 65535.

USPDAT must be blank or 1 - 65535.

IIHDAT must be blank or 1 - 65535.

IIQDAT must be blank or 1 - 65535.

IIFDAT must be blank or 1 - 65535.

ICRDAT must be blank or 1 - 65535.

ICDDAT must be blank or 1 - 65535.

ICPDAT must be blank or 1 - 65535.

ICEDAT must be blank or 1 - 65535.

ICTDAT must be blank or 1 - 65535.

UURDAT must be blank or 1 - 65535.

EURDAT must be blank or 1 - 65535.

RDLDAT must be blank or 1 - 65535.

ERRDAT must be blank or 1 - 65535.

URVDAT must be blank or 1 - 65535.

URIDAT must be blank or 1 - 65535.

IPHMAT must be blank or 1 - 900.

IPCMAT must be blank or 1 - 900.

USPMAT must be blank or 1 - 900.

IIHMAT must be blank or 1 - 900.

IIQMAT must be blank or 1 - 900.

IIFMAT must be blank or 1 - 900.

ICRMAT must be blank or 1 - 900.

ICDMAT must be blank or 1 - 900.

ICEMAT must be blank or 1 - 900.

ICTMAT must be blank or 1 - 900.

UURMAT must be blank or 1 - 900.

EURMAT must be blank or 1 - 900.

RDLMAT must be blank or 1 - 900.

ERRMAT must be blank or 1 - 900.

URVMAT must be blank or 1 - 900.

URIMAT must be blank or 1 - 900.

DAILY ALERTING THRESHOLDS

2.5 INHDAY

Description: This field is used to indicate whether or not to inhibit all daily alerting thresholds.
Required field.

Software Release: 5E16(2) and later

Default: N

Valid Entries: Y, N

2.6 CVDAT

Description: This field is used to specify the Coding Violation Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 1048575

2.7 LESDAT

Description: This field is used to specify Line Errored Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.8 LSESDAT

Description: This field is used to specify Line Severely Errored Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.9 PESDAT

Description: This field is used to specify Path Errored Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.10 PFLSDAT

Description: This field is used to specify Path Frame Loss Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.11 PSESDAT

Description: This field is used to specify Path Severely Errored Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.12 PSSDAT

Description: This field is used to specify Path Slip Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.13 PUASDAT

Description: This field is used to specify Path Unavailable Seconds Daily Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

IP THRESHOLDS

These fields (Section 2.14 - Section 2.30) support the OIU-IP feature. For more information on these features, see Division 2, Section 7BQ and Division 2, Section 7BX, respectively.

2.14 IPHDAT

Description: The IPHDAT (Invalid PPP Header Received) field is used to specify the alerting threshold for the number of invalid PPP (Point-to-Point) headers received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.15 IPCDAT

Description: The IPCDAT (Invalid PPP Checksum Received) field is used to specify the alerting threshold for the number of invalid PPP checksums received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.16 USPDAT

Description: The USPDAT (Unavailable Seconds At PPP Layer) field is used to specify the alerting threshold for the number of unavailable seconds at PPP layer time.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.17 IIHDAT

Description: The IIHDAT (Invalid IP Header) field is used to specify the alerting threshold for the number of invalid IP (Internet Protocol) headers.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.18 IIQDAT

Description: The IIQDAT (Incoming IP Queue Congestion) field is used to specify the alerting threshold for the number of incoming IP queue congestions.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.19 IIFDAT

Description: The IIFDAT (Incoming Fragmented IP Datagrams) field is used to specify the alerting threshold for the number of invalid IP headers.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.20 ICRDAT

Description: The ICRDAT (Incoming ICMP Datagrams Received) field is used to specify the alerting threshold for the number of incoming ICMP (Internet Control Message Protocol) datagrams received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.21 ICDDAT

Description: The ICDDAT (Incoming Destination Unreachable Message Received) field is used to specify the alerting threshold for the number of incoming destination unreachable message received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.22 ICPDAT

Description: The ICPDAT (ICMP Parameter Problem Message Received) field is used to specify the alerting threshold for the number of ICMP parameter problem messages received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.23 ICEDAT

Description: The ICEDAT (ICMP Echo Request Message Received) field is used to specify the alerting threshold for the number of ICMP echo request messages received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.24 ICTDAT

Description: The ICTDAT (ICMP TTL Exceeded Message Received) field is used to specify the alerting threshold for the number of ICMP exceeded messages received.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.25 UURDAT

Description: The UURDAT (Unexpected UDP Datagrams Received) field is used to specify the alerting threshold for the number of unexpected UDP (User Datagram Protocol) datagrams.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.26 EURDAT

Description: The EURDAT (Errored UDP Datagrams Received) field is used to specify the alerting threshold for the number of errored UDP datagrams received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 65535

2.27 RDLDAT

Description: The RDLDAT (RTP Datagrams Lost) field is used to specify the alerting threshold for the number of RTP (Real Time Transport Protocol) datagrams lost.

Software Release: 5E16(2) and later
Valid Entries: 1 - 65535

2.28 ERRDAT

Description: The ERRDAT (Errored RTP Datagrams Received) field is used to specify the alerting threshold for the number of errored RTP datagrams received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 65535

2.29 URVDAT

Description: The URVDAT (Unexpected RTCP Datagrams Received Valid Port) field is used to specify the alerting threshold for the number of unexpected RTCP (Real Time Control Protocol) datagrams receiving invalid ports.

Software Release: 5E16(2) and later
Valid Entries: 1 - 65535

2.30 URIDAT

Description: The URIDAT (Unexpected RTCP Datagrams Received Invalid Port) field is used to specify the alerting threshold for the number of unexpected RTCP datagrams receiving invalid ports.

Software Release: 5E16(2) and later
Valid Entries: 1 - 65535

FIFTEEN MINUTE ALERTING THRESHOLDS

2.31 INH15

Description: This field is used to inhibit all 15 minute alerting thresholds.
Required field.

Software Release: 5E16(2) and later
Default: N
Valid Entries: Y, N

2.32 CV15MAT

Description: This field is used to specify the alerting threshold for the Coding Violation 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 65535

2.33 LES15MAT

Description: This field is used to specify the alerting threshold for the Line Errored Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.34 LSES15MAT

Description: This field is used to specify the alerting threshold for the Line Severely Errored Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.35 PES15MAT

Description: This field is used to specify the alerting threshold for the Path Errored Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.36 PFLS15MAT

Description: This field is used to specify the alerting threshold for the Path Frame Loss Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.37 PSES15MAT

Description: This field is used to specify the alerting threshold for the Path Severely Errored Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.38 PSS15MAT

Description: This field is used to specify the alerting threshold for the Path Slip Seconds 15 Minute Alerting Threshold.

Software Release: 5E16(2) and later

Valid Entries: 1 - 900

2.39 PUAS15MAT

Description: This field is used to specify the alerting threshold for the Path Unavailable Seconds 15 Minute

Alerting Threshold.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

IP THRESHOLDS

These fields (Section 2.40 - Section 2.56) support the OIU-NAR and the OIU-IP features. For more information on these features, see Division 2, Section 7BQ and Division 2, Section 7BX, respectively.

2.40 IPH15MAT

Description: The IPH15MAT field is used to specify the alerting threshold for the number of invalid PPP headers received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.41 IPC15MAT

Description: The IPC15MAT field is used to specify the alerting threshold for the number of invalid PPP checksums received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.42 USP15MAT

Description: The USP15MAT field is used to specify the alerting threshold for the number of unavailable seconds for the PPP layer.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.43 IIH15MAT

Description: The IIH15MAT field is used to specify the alerting threshold for the number of invalid IP headers.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.44 IIQ15MAT

Description: The IIQ15MAT field is used to specify the alerting threshold for the number of incoming IP queue congestion.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.45 IIF15MAT

Description: The IIF15MAT field is used to specify the alerting threshold for the number of incoming fragmented IP datagrams.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.46 ICR15MAT

Description: The ICR15MAT field is used to specify the alerting threshold for the number of incoming ICMP datagrams received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.47 ICD15MAT

Description: The ICD15MAT field is used to specify the alerting threshold for the number of incoming destination unreachable messages received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.48 ICP15MAT

Description: The ICP15MAT field is used to specify the alerting threshold for the number of ICMP parameter problem message received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.49 ICE15MAT

Description: The ICE15MAT field is used to specify the alerting threshold for the number of ICMP echo request messages received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.50 ICT15MAT

Description: The ICT15MAT field is used to specify the alerting threshold for the number of ICMP exceeded messages received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.51 UUR15MAT

Description: The UUR15MAT field is used to specify the alerting threshold for the number of unexpected UDP datagrams.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.52 EUR15MAT

Description: The EUR15MAT field is used to specify the alerting threshold for the number of errored UDP datagrams received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.53 RDL15MAT

Description: The RDL15MAT field is used to specify the alerting threshold for the number of RTP datagrams lost.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.54 ERR15MAT

Description: The ERR15MAT field is used to specify the alerting threshold for the number of errored RTP datagrams received.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.55 URV15MAT

Description: The URV15MAT field is used to specify the alerting threshold for the number of unexpected RTCP datagrams received valid port.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

2.56 URI15MAT

Description: The URI15MAT field is used to specify the alerting threshold for the number of unexpected RTCP datagrams receiving invalid ports.

Software Release: 5E16(2) and later
Valid Entries: 1 - 900

```
oiupm                                5ESS Switch
SCREEN 1 OF 3                        OFFICE DATA ADMINISTRATION
(5767)                             OIU PERFORMANCE MONITORING THRESHOLD GROUP
```

```
*1. PM GROUP _____
  2. REMARKS _____
#3. CKT TYPE _____
```

```
oiupm                                5ESS Switch
```

SCREEN 2 OF 3
(5767)

OFFICE DATA ADMINISTRATION
OIU PERFORMANCE MONITORING THRESHOLD GROUP

DAILY ALERTING THRESHOLDS	IP THRESHOLDS	
4. INHDAY N	16. IPH DAT _____	27. UUR DAT _____
5. CV DAT _____	17. IPC DAT _____	28. EUR DAT _____
6. LES DAT _____	18. USP DAT _____	29. RDL DAT _____
7. LSES DAT _____	19. IIH DAT _____	30. ERR DAT _____
8. PES DAT _____	20. IIQ DAT _____	31. URV DAT _____
9. PFLS DAT _____	21. IIF DAT _____	32. URI DAT _____
10. PSES DAT _____	22. ICR DAT _____	
11. PSS DAT _____	23. ICD DAT _____	
12. PUAS DAT _____	24. ICP DAT _____	
	25. ICE DAT _____	
	26. ICT DAT _____	

oiupm

5ESS Switch

SCREEN 3 OF 3
(5767)

OFFICE DATA ADMINISTRATION
OIU PERFORMANCE MONITORING THRESHOLD GROUP

FIFTEEN MINUTE ALERTING THRESHOLDS	IP THRESHOLDS	
33. INH15 N	45. IPH15MAT _____	56. UUR15MAT _____
34. CV15MAT _____	46. IPC15MAT _____	57. EUR15MAT _____
35. LES15MAT _____	47. USP15MAT _____	58. RDL15MAT _____
36. LSES15MAT _____	48. IIH15MAT _____	59. ERR15MAT _____
37. PES15MAT _____	49. IIQ15MAT _____	60. URV15MAT _____
38. PFLS15MAT _____	50. IIF15MAT _____	61. URI15MAT _____
39. PSES15MAT _____	51. ICR15MAT _____	
40. PSS15MAT _____	52. ICD15MAT _____	
41. PUAS15MAT _____	53. ICP15MAT _____	
	54. ICE15MAT _____	
	55. ICT15MAT _____	

Figure 1 SAMPLE OIUPM FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5CD: 5769 Record THRESHOLD ALARM LEVELS - ALRMLVLS

1. GENERAL

The 5769 Record is available with 5E16(2) and later Software Releases. It is used to review and update threshold alarm levels. This form supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). This feature is made available in 5E16 Feature Release 3. For more information on this feature, see Division 2, Section 7BX.

1.1 Recent Change View

The Recent Change View for this form is 8.29.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the Office Name on each record.

2.2 * KEY

Description: The KEY field is used to access the form.

Software Release: 5E16(2) and later
Default: 0

2.3 ICMP ECHO REQ

Description: This field is used to define the alarm level for the ICMP (Internet Control Message Protocol) echo request thresholds, ICE15MAT and ICEDAT, on the OIUPM form.

Software Release: 5E16(2) and later
Valid Entries: Blank, or enter MINOR

2.4 IP FRAG DATAGRM

Description: This field is used to define the alarm level for the IP (Internet Protocol) fragmented datagrams thresholds, IIF15MAT and IIFDAT, on the OIUPM form.

Software Release: 5E16(2) and later
Valid Entries: Blank, or enter MINOR

2.5 UDP UNEXP DATAGRM

Description: This field is used to define the alarm level for the UDP (User Datagram Protocol) unexpected datagram thresholds, UUR15MAT and UURDAT, on the OIUPM form.

Software Release: 5E16(2) and later
Valid Entries: Blank, or enter MINOR

2.6 RTCP INV PORT

Description: This field is used to define the alarm level for the RTCP (Real-time Control Protocol) unexpected invalid port use thresholds, URI15MAT and URIDAT, on the OIUPM form.

Software Release: 5E16(2) and later

Valid Entries: Blank, or enter MINOR

2.7 RTCP VAL PORT

Description: This field is used to define the alarm level for the RTCP unexpected valid port use thresholds, URV15MAT and URVDAT, the OIUPM form.

Software Release: 5E16(2) and later

Valid Entries: Blank, or enter MINOR

```
alrmlvls                                5ESS Switch
                                         OFFICE DATA ADMINISTRATION
(5769)                                THRESHOLD ALARM LEVELS

*1. KEY                                0
2. ICMP ECHO REQ                      _____
3. IP FRAG DATAGRM                    _____
4. UDP UNEXP DATAGRM                  _____
5. RTCP INV PORT                      _____
6. RTCP VAL PORT                      _____
```

Figure 1 SAMPLE ALRMLVLS FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 5CF: 5589 RECORD BICC RELEASE CAUSE VALUE - UNI2BCAU

1. GENERAL

The UNI2BCAU form (5589 Record) is available with 5E15 Feature Release 3 Software Update, and is used to provide customers with the ability to enter the desired BICC (Bearer Independent Connection Control) causes from the UNI (User to Network Interface) release cause categories.

This form is being added to support the Cause Value Mapping feature. This is a secured feature with an SFID of 567 that must be activated before using this form. For more detailed information on activating this feature, see Division 2, Section 4A567.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.43.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 *UNI KEY

Description: This field is used as the UNI cause value or BICC category. When a bearer connection is being released, a UNI RELEASE message will be sent. One of the fields in the RELEASE message is "cause", which specifies the reason why the bearer connection is released.

Required Field.

Software Release: 5E15 and later

Valid Entries:

Valid OUTPUTSING Entries	
Entry	Definition
CV0	Unknown
CV1	Unallocated number
CV2	No route to specified transit network
CV3	No route to destination
CV16	Normal Call Clearing
CV22	Number changed
CV25	Exchange Routing Errors
CV27	Destination out of order
CV28	Invalid Number Format (Address incomplete)
CV31	Normal - unspecified
CV34	No circuit available
CV35	Requested VPCI/VCI Not Available
CV36	VPCI/VCI Assignment Failure
CV37	User Cell Rate Not Available
CV38	Network out of order
CV41	Temporary failure
CV42	Switching equipment congestion
CV44	Requested Channel not available
CV45	No VPI/VCI Available
CV46	Precedence Call Blocked
CV47	Resource Unavailable
CV49	Quality of Service Not Available

CV57	Bearer Capability not authorized
CV58	Bearer Capability presently not available
CV63	Service or option not available, unspecified
CV65	Bearer capability not implemented, unspecified
CV66	Channel type not implemented
CV69	Requested facility not implemented
CV70	Only restricted digital information bearer capability is available
CV73	Unsupported combination of traffic parameters
CV79	Service or option not implemented, unspecified
CV91	Invalid transit network selection
BRF	BICC Cause Category "A": Bearer routing failure
NCC	BICC Cause Category "B": Normal Call Clearing
RUU	BICC Cause Category "C": Resource unavailable, unspecified
SNU	BICC Cause Category "D": Service or option not implemented, unspecified.
IU	BICC Cause Category "E": Interworking, unspecified
NU	BICC Cause Category "F": Normal, unspecified

Data Rules:

2.3 #BICC CAUSE

Description: This field is the BICC cause value. When a BICC call is being released, a BICC RELEASE message will be sent. One of the fields in the RELEASE message is "cause", which specifies the reason why the call is released.

Required Field.

Software Release: 5E15 and later

Valid Entries: 1 - 127

```

uni2bcau                                5ESS Switch      —
                                     OFFICE DATA ADMINISTRATION
(5589)                                BICC RELEASE CAUSE VALUE

*1. UNI KEY      _____
#2. BICC CAUSE   _____

```

Figure 1 SAMPLE UNI2BCAU FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 5CI: 5593 RECORD TRFO ECHO CANCELLATION PARAMETERS - TRFOPARM

1. GENERAL

The 5593 Record is used to provision parameters for Packet Frame Selector, Circuit Vocoder, and Packet Vocoder. This form is created in the 5E20(1) Software Releases. This form supports the TrFO(Transcoder Free Operation)/RTO (Remote Transcoding Operation) feature (99-5E-8663). For more information on this feature see Division 2, Section 4A775.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.76.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 * KEY

Description: The KEY field is used to access this view.

Software Release: 5E20(1) and later

Valid Entries: 0

ELECTRICAL ECHO CANCELLATION

These fields (Section 2.3 - Section 2.17) support the electrical echo cancellation algorithms for CDMA (Code Division Multiple Access) vocoders.

2.3 ECHO CANCELLATION

Description: The ECHO CANCELLATION field indicates whether or not to use the PHV (Protocol Handler Vocoder) electrical echo cancellation algorithm for CDMA.

Required Field.

Software Release: 5E20(1) and later

Default: N

Valid Entries: Y, N

2.4 DC REMOVER

Description: The DC REMOVER field determines whether or not direct current removal filtering is provided on the receive signal, which is the signal encoded by the vocoder.

Required Field.

Software Release: 5E20(1) and later

Default: Y

Valid Entries: Y, N

2.5 NONLINEAR PROC

Description: The NONLINEAR PROC field indicates whether or not residual echo after adaptive filtering is removed.

Required Field.

Software Release: 5E20(1) and later

Default: Y

Valid Entries: Y, N

2.6 NLP NOISE FILL

Description: The NLP NOISE FILL field indicates whether or the noise fill feature is active. The noise fill feature estimates the background noise level on the receive side and inserts a matching noise when the NLP (Nonlinear Processor) is active.

Required Field.

Software Release: 5E20(1) and later

Default: Y

Valid Entries: Y, N

2.7 NLP ACT THRESHOLD

Description: The NLP ACT THRESHOLD field indicates by how much the decoder output power level must exceed the encoder input power level in order to activate the nonlinear processor.

Required Field.

Software Release: 5E20(1) and later

Default: 19

Valid Entries: Enter from 11 to 16, 18 to 20, 22, 24, or 26 dB.

2.8 FORWARD LINK ALC

Description: The FORWARD LINK ALC field indicates the gain or loss that is applied to the encoder input.

Required Field.

Software Release: 5E20(1) and later

Default: 0

Valid Entries: -12 - +12 dB.

2.9 REVERSE LINK ALC

Description: The REVERSE LINK ALC field indicates the gain or loss that is applied to the decoder output.

Required Field.

Software Release: 5E20(1) and later

Default: 0

Valid Entries: -12 - +12 dB.

2.10 HYBRID RET LOSS TH

Description: The HYBRID RET LOSS TH field indicates the smallest power level difference that must exist between the original signal and the echo signal that is received, to allow the echo canceller to function properly.

Required Field.

Software Release: 5E20(1) and later

Default: 6

Valid Entries: 0 - 10 dB

2.11 MAX NOISE FILL LEVL

Description: The MAX NOISE FILL LEVL field indicates the maximum level of noise inserted when the nonlinear processor is removing residual echo.

Required Field.

Software Release: 5E20(1) and later

Default: -39

Valid Entries: -39, -42, -45, -48, -51, -54, -57, -60, -63, -66, -69, or -72 dB.

2.12 NE SPCH DET TH

Description: The NE SPCH DET TH field indicates the minimum network ERL (Echo Return Loss) needed for the EEC (Electrical Echo Cancellation) to properly converge to the echo path. The threshold is applied to the level difference between the reverse direction (far-end) and forward direction (near-end) signals. The EEC adaptation is frozen when the threshold is exceeded.

Required Field.

Software Release: 5E20(1) and later

Default: 6

Valid Entries: 0 - 15

2.13 AGGR ADPT RATE

Description: The AGGR ADPT RATE field indicates how quickly the adaptive filter can converge to the new echo path when the canceller is operating in aggressive mode. (i.e. the fast convergence mode at the beginning of a call).

Required Field.

Software Release: 5E20(1) and later

Default: 10

Valid Entries: 0 - 15

Data Rules:

AGGR ADPT RATE must be greater than or equal to NRML ADPT RATE.

2.14 NRML ADPT RATE

Description: The NRML ADPT RATE field indicates the adaptation rate after aggressive mode operation has completed.

Required Field.

Software Release: 5E20(1) and later

Default: 4

Valid Entries: 0 - 15

Data Rules:

AGGR ADPT RATE must be greater than or equal to NRML ADPT RATE.

2.15 AGGR NLP TH

Description: The AGGR NLP TH field indicates the power level difference between the reverse and forward direction signals for activating the NLP (Nonlinear Processor) during aggressive mode.

Required Field.

Software Release: 5E20(1) and later

Default: 1

Valid Entries: 0 - 15

2.16 NRML NLP TH

Description: The NRML NLP TH field indicates the power level difference between the reverse and forward direction signals for activating the NLP (Nonlinear Processor) after aggressive mode operation has completed.

Required Field.

Software Release: 5E20(1) and later

Default: 7

Valid Entries: 0 - 15

2.17 DBL-TALK CTRL

Description: The DBL-TALK CTRL field indicates aggressiveness of double-talk robustness algorithm.

Required Field.

Software Release: 5E20(1) and later

Default: 3

Valid Entries: 0 - 15

ACOUSTIC ECHO CANCELLATION

These fields (Section 2.18 - Section 2.22) support the acoustics echo cancellation algorithms for CDMA (Code Division Multiple Access) vocoders.

2.18 AC ECHO CTRL

Description: The AC ECHO CTRL field indicates whether Acoustic Echo Controller is active.

Required Field.

Software Release: 5E20(1) and later
Valid Entries: Y, N

Data Rules:

AC ECHO CTRL, REV LINK AGC, FRWD LINK AGC, REV LINK NS, and REV LINK NC is set to "Y", the ACT field for SFID 599 must also be set to "Y".

2.19 REV LINK AGC

Description: The REV LINK AGC field indicates whether AGC (Automatic Gain Control) in the reverse direction is active.

Required Field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.20 FRWD LINK AGC

Description: The FRWD LINK AGC field indicates whether Automatic Gain Control (AGC) in the forward direction is active

Required Field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.21 REV LINK NS

Description: The REV LINK NS field indicates whether NS (Noise Suppression)/NR (Noise Reduction) is active.

Required Field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.22 REV LINK NC

Description: The REV LINK NC field indicates whether NC (Noise Compensation) is active.

Required Field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

PARAMETERS FOR PV & CV**2.23 ACTIVATE TTY/TDD**

Description: The field ENABLE TTY/TDD will be used to activate or deactivate TTY/TDD for 13K, G.711, and EVRC.

Required Field.

Software Release: 5E20(1) and later

Default: N

Valid Entries: Y, N

PARAMETERS FOR PFS/CV/PV**2.24 EVRC0 SILENCE SUP TH**

Description: The EVRC0 SILENCE SUP TH field silence suppression threshold is determine when there is absence of voice from the CE. When the number of 1/8 rate packets received by the PFS from the CE reaches the value defined by this EVRC0 silence suppression threshold, the PFS will not continue to send all the received 1/8 rate frames toward the network. The PFS will only send 1/8 rate frames to the network at periodic intervals to update the background noise.

Required Field.

Software Release: 5E20(1) and later

Default: 3

Valid Entries: 1 - 10

2.25 EVRC0 SILENCE SUP INTERVAL

Description: The EVRC0 SILENCE SUP INTERVAL field tells the PFS when it needs to send 1/8 rate frames to the network to update the background noise. This is needed during silence suppression when there is absence of voice. The value of this parameter is in the number of 20 ms units. For example, if the EVRC0 silence suppression interval value is 2, this would mean that the PFS would send 1/8th rate frames toward the network every 40 ms during absence of voice

Required Field.

Software Release: 5E20(1) and later

Default: 10

Valid Entries: 1 - 50

2.26 COMFORT NOISE INTERVAL

Description: This field is used to specify the interval at which the comfort noise is generated.

Required Field.

Software Release: 5E20(1) and later

Default: 100

Valid Entries: 10 - 1000 by 10

2.27 VAD HANGOVER

Description: This field represents the Voice Activity Detector Hangover.

Required Field.

Software Release: 5E20(1) and later

Default: 10

Valid Entries: 0 - 1000 by 10

RESOURCE WARNING THRESHOLD

2.28 NPH WARNING THRESHOLD

Description: The NPH WARNING THRESHOLD tells the switch when the warning message will be printed during NPH provisioning. If the value $[(\text{provisioned NPH})/(\text{the purchased NPH}) * 100]$ equals or exceeds the NPH WARNING THRESHOLD, RC will issue a warning.

Required Field.

Software Release: 5E20(1) and later

Default: 100

Valid Entries: blank or 0 - 100 in increments of 10

2.29 PFS WARNING THRESHOLD

Description: The PFS WARNING THRESHOLD tells the switch when the warning message will be printed during PFS trunk member provisioning. If the value $[(\text{provisioned PFS})/(\text{the purchased PFS}) * 100]$ equals or exceeds the PFS WARNING THRESHOLD, RC will issue a warning to the ROP (Read Only Printer).

Required Field.

Software Release: 5E20(1) and later

Default: 80

Valid Entries: blank or 0 to 100 by 10

2.30 CVPV WARNING THRESHOLD

Description: The CVPV WARNING THRESHOLD tells the switch when the warning message will be printed during PV/CV trunk member provisioning. If the value $[(\text{provisioned PV(CV)})/(\text{the purchased PV(CV)}) * 100]$ equals or exceeds the CVPV WARNING THRESHOLD, RC will issue a warning to the ROP (Read Only Printer).

Required Field.

Software Release: 5E20(1) and later

Default: 80

Valid Entries: blank or 0 to 100 by 10

PARAMETERS FOR EVRC-B

2.31 DEFAULT MODE

Description: This field indicates which MODE should be used when CV (Circuit Vocoder) or PV (packet Vocoder) is connected to an EVRC-B RTP (Real Time Protocol) path where the value cannot be updated from a PFS (Packet Frame Selector).

Software Release: 5E21(1) and later

Default: 0

Valid Entries: 0 - 7

2.32 DEPLOY EVRC-B

Description: This field indicates whether the EVRC-B codec algorithm is supported by TrFO/RTO resources, CVs and PVs.

Software Release: 5E21(1) and later

Default: N

Valid Entries: Y, N

Data Rules:

When DEPLOY EVRC-B is set to 'Y' on the TRFOPARM form (5593 Record),

the SERV TYPE on the TKGRP form (5202 Record) must be "PVEVB" when the TRKCLS is "PV" and,

the SERV TYPE on the TKGRP form must be "CVEVB" when the TRKCLS is "CV".

2.33 ORIG MOBILE SOC

Description: This field indicates whether the frame selector should insert a vocoder if the terminating mobile does not support EVRC-B, or if the frame selector should attempt to downgrade the originating mobile from EVRC-B to EVRC. The value of "Y" for the parameter, "ORIG MOBILE SOC" indicates that for a EVRC-B TrFO call, the frame selector attempts to downgrade the originating mobile from EVRC-B to EVRC if the terminating mobile does not support EVRC-B. The value of "N" for the parameter, "ORIG MOBILE SOC" indicates that for a EVRC-B TrFO call, the frame selector inserts a vocoder if the terminating mobile does not support EVRC-B.

Software Release: 5E21(1) and later

Default: N

Valid Entries: Y, N

2.34 EVRCB0 SILENCE SUP TH

Description: This field's silence suppression threshold is determined when there is absence of voice from the CE (Channel Element). When the number of 1/8 rate packets received by the PFS from the CE reaches the value defined by this EVRCB0 silence suppression threshold, the PFS will not continue to send all the received 1/8 rate frames toward the network. The PFS will only send 1/8 rate frames to the network at periodic intervals to update the background noise.

Required Field.

Software Release: 5E21(1) and later

Default: 3

Valid Entries: 1 - 10

2.35 EVRCB0 SILENCE SUP INTERVAL

Description: This field tells the PFS when it needs to send 1/8 rate frames to the network to update the background noise. This is needed during silence suppression when there is absence of voice. The value of this parameter is in the number of 20 ms units. For example, if the EVRCB0 silence suppression interval value is 2, this would mean that the PFS would send 1/8th rate frames toward the network every 40 ms during absence of voice.

Required Field.

Software Release: 5E21(1) and later

Default: 10

Valid Entries: 1 - 50

```

trfoparm                      5ESS Switch
SCREEN 1 OF 2                 OFFICE DATA ADMINISTRATION
(5593)                        TRFO ECHO CANCELLATION PARAMETERS

*1. KEY _                     11. NE SPCH DET TH 6 ACOUSTIC ECHO CANCELLATION
                                12. AGGR ADPT RATE 10 17. AC ECHO CTRL Y
ELECTRICAL ECHO CANCELLATION 13. NRML ADPT RATE 4 18. REV LINK AGC N
  2. ECHO CANCELLATION      N 14. AGGR NLP TH 1 19. FRWD LINK AGC N
  3. DC REMOVER             Y 15. NRML NLP TH 7 20. REV LINK NS N
  4. NONLINEAR PROC         Y 16. DBL-TALK CTRL 3 21. REV LINK NC N
  5. NLP NOISE FILL         Y
  6. NLP ACT THRESHOLD      19
  7. FORWARD LINK ALC       000
  8. REVERSE LINK ALC       000
  9. HYBRID RET LOSS TH     06
10. MAX NOISE FILL LEVL    -39
                                PARAMETERS FOR PV & CV
                                22. ACTIVATE TTY/TDD N
                                PARAMETERS FOR PFS/CV/PV
                                23. EVRC0 SILENCE SUP TH 3

```

```

trfoparm                      5ESS Switch
SCREEN 2 OF 2                 OFFICE DATA ADMINISTRATION
(5593)                        PVA OFFICE PARAMETERS

```

```

PARAMETERS FOR PFS/CV/PV
23. EVRC0 SILENCE SUP TH      3
24. EVRC0 SILENCE SUP INTERVAL 10
25. COMFORT NOISE INTERVAL    100
26. VAD HANGOVER              10

```

```

RESOURCE WARNING THRESHOLD
27. NPH WARNING THRESHOLD    100
28. PFS WARNING THRESHOLD    80
29. CVPV WARNING THRESHOLD   80

```

Figure 1 SAMPLE TRFOPARM FORM 5E20(1) AND LATER SOFTWARE RELEASES

```

trfoparm                      5ESS Switch
SCREEN 1 OF 2                 OFFICE DATA ADMINISTRATION
(5593)                        PVA OFFICE PARAMETERS

*1. KEY _                     11. NRML NLP TH    7
                               12. DBL-TALK CTRL 3

ELECTRICAL ECHO CANCELLATION
 2. ECHO CANCELLATION N      ACOUSTIC ECHO CANCELLATION
 3. NONLINEAR PROC    Y      13. AC ECHO CTRL  N
 4. NLP NOISE FILL    Y      14. REV LINK AGC  N
 5. RX PCM GAIN       000     15. FRWD LINK AGC  N
 6. TX PCM GAIN       000     16. REV LINK NR   N
 7. NE SPCH DET TH    6      17. REV LINK NC   N
 8. AGGR ADPT RATE    10
 9. NRML ADPT RATE    4      PARAMETERS FOR PV & CV
10. AGGR NLP TH       1      18. ACTIVATE TTY/TDD N

```

```

trfoparm                      5ESS Switch
SCREEN 2 OF 2                 OFFICE DATA ADMINISTRATION
(5593)                        PVA OFFICE PARAMETERS

      PARAMETERS FOR PFS/CV/PV      PARAMETERS FOR EVRC-B
19. EVRC0 SILENCE SUP TH    3      26. DEFAULT MODE                0
20. EVRC0 SILENCE SUP INTERVAL 10  27. DEPLOY EVRC-B                N
21. COMFORT NOISE INTERVAL  100    28. ORIG MOBILE SOC                N
22. VAD HANGOVER           10      29. EVRCB SILENCE SUP TH          3
                                   30. EVRCB SILENCE SUP INTERVAL 10

RESOURCE WARNING THRESHOLD
23. NPH WARNING THRESHOLD  100
24. PFS WARNING THRESHOLD   80
25. CVPV WARNING THRESHOLD  80

```

Figure 2 SAMPLE TRFOPARM FORM 5E21(1) AND LATER SOFTWARE RELEASES

SEC. 6: SECURED FEATURES

SEC. 6A: 5550 RECORD MULTIPLE TN'S WITH DISTINCTIVE RINGING - MTNDR

1. GENERAL

The 5550 Record is available with 5E4(2) and later Software Releases. This is a Secured Feature and is available only to 5ESS Switch offices that have made special arrangements to purchase the feature.

1.1 Line Assignment

The MDNL (Multiple Telephone Numbers Per Line with Distinctive Ringing) feature allows multiple telephone numbers, with distinctive ringing, to be assigned to a single line (Master TN), without an additional line termination or additional station equipment.

An unlimited number of telephone numbers (Dependent TNs) may be assigned to the Master TN, but only four distinctive ringing patterns are available to be assigned to Dependent TNs.

This feature may only be assigned to analog lines with a CLASS OF SERVICE of "INDIV" or "INWATS" on the associated LCC form (5306 Record).

1.2 BRCS Feature Assignment

BRCS features are assigned to the Master TN and these features except Distinctive Ringing will be applied to all Dependent TNs.

The Master TN will receive ringing pattern "A" unless the BRCS Distinctive Ringing feature (defined on the DRFD form (5606-1 Record)) is assigned to the Master TN with a ringing pattern other than "A". The Dependent TNs are assigned individual distinctive ringing patterns on this form.

The BRCS Call Waiting and Call Forwarding features are enhanced with the MDNL feature. Distinctive Call Waiting tones, which correspond to the distinctive ringing patterns assigned to the Dependent TN on this form, allow the user to distinguish which number is being called.

If Call Forwarding is assigned to the Master TN, the forwarding of calls to Dependent TNs can be applied two different ways:

- A. All calls that terminate to the Master or Dependent TNs can be forwarded using the Call Forwarding Variable feature assigned to the Master TN. This is accomplished by assigning a Call Forwarding Variable feature with the FORWARD MULTIPLE TN'S? field set to "Y" on the CFWLPA form (5614-3 Record).
- B. All calls that terminate to the Master TN can be forwarded. All calls to Dependent TNs cannot be forwarded. This is accomplished by assigning a Call Forwarding Variable feature with the FORWARD MULTIPLE TN'S? field set to "N" on the CFWLPA form (5614-3 Record).

1.3 Line Time Slot Bridging

The MDNL feature is compatible with the 1-TN LTSB (Line Time Slot Bridging) feature (refer to Division 2, Section 1ac). 1-TN LTSB has two ports with the same telephone number. The ports are bridged through software emulation, as opposed to the traditional metallic bridging.

1.4 Recent Change View

The corresponding Recent Change View for this form is 1.9.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * TN

Description: Enter the Telephone Number of the Dependent TN.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

This TN must be unique within the 5ESS Switch and must not be set to the TN entered in the MASTER TN field.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the MTNDR form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, the TN(s) defined on the MTNDR form must have the first three digits of a 7-digit TN or the first six digits of a 10-digit TN assigned on the NOC form as the OFFICE CODE or the NPA/OFFICE CODE, respectively.

2.3 # MASTER TN

Description: Enter the seven-digit Telephone Number of the Master TN. The Master TN is the telephone number that the Dependent TN is associated with. This is a required field.

Required Field.

Valid Entries: 7 digits, 0 - 9

Data Rules:

The value entered here must be defined on a LINE form with an OE NUMBER specified and either PTY must be set to "I" and MFRI must be set to "N" or PTY must be left blank.

MTNDR form(s) cannot have a MASTER TN assigned which matches a TN on a LINE form having 2-TN LTSB (Line Time Slot Bridging) assigned (the ASSOC OE TYPE and NUMBER match a second LINE form with matching OE TYPE and NUMBER). These types of lines cannot have Multiple TNs with Distinctive Ringing assigned.

For 5E12 and later, if the first 3 digits of the 7-digit MASTER TNs on the MTNDR form are equivalent to an OFFICE CODE on the NOC form, but there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit MASTER TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

For 5E12 and later, the TNs on the MTNDR form cannot have the MASTER TN equal to the TN on the same MTNDR form.

2.4 # RINGING PATTERN TYPE

Description: Enter the Distinctive Ringing Pattern that is assigned to the Dependent TN entered in the TN field.

Required Field.

Default: A

Valid Entries:

Valid RINGING PATTERN TYPE Entries	
Entry	Definition
A	Ringling - repeated pattern of 2 seconds on and 4 seconds off (normal ringing pattern). Call Waiting Tone - pattern of 0.3 seconds on.
B	Ringling - repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on followed by 4 seconds off. Call Waiting Tone - pattern of 0.1 seconds on, 0.1 seconds off, 0.1 seconds on.
C	Ringling - repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on and 4 seconds off. Call Waiting Tone - pattern of 0.1 seconds on, 0.1 seconds off, 0.1 seconds on, 0.1 seconds off, 0.1 seconds on.
E	Ringling - repeated pattern of 0.3 seconds on, 0.2 seconds off, 1 second on, 0.2 seconds off, 0.3 seconds on, and 4 seconds off. Call Waiting Tone - pattern of 0.1 seconds on, 0.1 seconds off, 0.3 seconds on, 0.1 seconds off, 0.1 seconds on.

2.5 # TRC

Description: Will Call Tracing be allowed? When Call Trace is in effect, it is used to trace all incoming calls to the customer's Telephone Number and a record is printed on the Maintenance TTY.

Required Field.

Default: N

Valid Entries: Y, N

2.6 # ICP

Description: Will routing of terminating calls be allowed to go to regular intercept? If ICP is "Y" then all calls terminating to the Dependent TN, defined in the TN field, are rerouted to Regular Intercept.

Required Field.

Default value is N

Valid Entries: Y, N

2.7 DNY BV

Description: This field is used in Recent Change as a verify only field to indicate if Deny Busy Verification is allowed.

2.8 # INWATS

Description: Will Inwats be allowed? If a "Y" is entered, then the Dependent TN, defined in the TN field, will have Inwats.

Required Field.

Default: N

Valid Entries: Y, N

Data Rules:

If this field is "Y" then ICP must be "N"

2.9 NEXT KEY TN

Description: This field is used in Recent Change as a verify only field to determine all the Dependent TNs associated with the Master TN.

mtndr	5ESS Switch	—
5550	OFFICE DATA ADMINISTRATION	
	MULTIPLE TNs WITH DISTINCTIVE RINGING	

* 1. TN	3451236
# 2. MASTER TN	3455000
# 3. RINGING PATTERN TYPE	B
# 4. TRC	N
# 5. ICP	N
DNY BV	
# 6. INWATS	N
NEXT KEY TN	

Figure 1 SAMPLE MTNDR FORM 5E11 AND EARLIER SOFTWARE RELEASES

mtndr	5ESS Switch	—
5550	OFFICE DATA ADMINISTRATION	
	MULTIPLE TNs WITH DISTINCTIVE RINGING	

* 1. TN	_____
# 2. MASTER TN	_____
# 3. RINGING PATTERN TYPE	A
# 4. TRC	N
# 5. ICP	N

DNY BV
6. INWATS N
NEXT KEY TN

Figure 2 SAMPLE MTNDR FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 6B: 5551 RECORD CARRIER LINE SCREENING FORM - CARSCR

1. GENERAL

The 5551 record is available with 5E5 and later Software Releases, and is used by the operating company to assign carrier line screening information to an individual TN (Telephone Number) or to an MLHG (Multi-Line Hunt Group) and MLHG member for a particular carrier as part of the SCD (Selective Carrier Denial) feature. The SCD feature is also available with 5E5 and later Software Releases and allows carriers to selectively inhibit certain calls from lines the carriers themselves have designated as non-paying subscribers.

The 5551 Record consists of all carriers assigned to each individual TN or MLHG group and member. Each unique CARRIER ID, however, generates a second record (5551A). This record consists of each individual carrier and the corresponding TN or MLHG group and member the listed carrier is screening.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.60.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Number and Office Name on each record.

2.2 (*) TN

Description: Enter a local Telephone Number.

Valid Entries:

For 5E11 and earlier: 7 digits

For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If a TN is entered, then the MLHG and TERM fields on this form must be left blank. However, if MLHG and TERM values are going to be entered on this form, this TN field must be left blank.

The TN entered on this form must be defined on a LINE form (5109 Record) where OE TYPE/NUMBER must be defined and "N" must be entered in the SHARED field. Also, the CLASS OF SERVICE field on the LCC form (5306 Record), where the LCC/RAX value equals the LCC/RAX entered on the LINE form, must have one of the following values entered: "INDIV", "PBX", "HOTMOTL", or "HOTPBX".

For 5E12 and later, TNs on different CARSCR forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the CARSCR form are equivalent to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, or the NOC form does not exist, the 7-digit TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.3 SCD OE

Description: This field identifies the Selective Carrier Denial Office Equipment number. This is a Recent

Change only field.

2.4 (*) MLHG

Description: Enter the MLHG number.

Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

When assigning MLHG numbers, entries exceeding 999 are not allowed until the range of 1 - 999 is completely exhausted. If a value is entered in this field, the TERM field on this form must also have an entry and the TN must be left blank. If a TN value was entered, leave this MLHG field blank.

The MLHG value entered must be defined on an MLHLN form (5111-1/2/3 Record) where OE TYPE/NUMBER must be defined and "N" must be entered in the SHARED field. Also, the CLASS OF SERVICE field on the LCC form, where LCC/RAX matches the LCC/RAX on the MLHLN form, must have one of the following values: "INDIV", "PBX", "HOTMOTL", or "HOTPBX".

2.5 (*) TERM

Description: Enter the MLHG terminal number.

Valid Entries: 1 - 2015 and 3001 - 3999

(outdial terminals only)

Data Rules:

The TERM value must be defined on the MLHLN form where OE TYPE/NUMBER must be defined and "N" must be entered in the SHARED field. Also, the CLASS OF SERVICE field on the LCC form, where the LCC/RAX matches the LCC/RAX on the MLHLN form, must have one of the following values: "INDIV", "PBX", "HOTMOTL", or "HOTPBX".

If a value is entered in this field, an MLHG value must be entered and the TN field must be blank; however, the TERM field is left blank if a TN value was entered.

2.6 * CARRIER ID

Description: Enter the Carrier Identification Code.

Required Field.

Valid Entries:

For 5E8 and earlier: 0 - 999

For 5E9(1) and later: 0 - 9999

Data Rules:

The CARRIER ID value entered on this form must be defined on the ICF form (5305 Record) with SCD SCRNING set to "Y", and for 5E8 and later, FEAT GRP on the ICF form must equal "D".


```
carscr                      5ESS Switch      —
(5551)                     OFFICE DATA ADMINISTRATION
                           CARRIER LINE SCREENING

(*) 1. TN      _____
      SCD OE
(*) 5. MLHG      0330
(*) 6. TERM      0120
* 7. CARRIER ID 0288
```

Figure 1 SAMPLE CARSCR FORM 5E9(2) THROUGH 5E11 SOFTWARE RELEASES

```
carscr                      5ESS Switch      —
(5551)                     OFFICE DATA ADMINISTRATION
                           CARRIER LINE SCREENING

(*) 1. TN      _____
      SCD OE      — _____
(*) 5. MLHG      _____
(*) 6. TERM      _____
*7. CARRIER ID _____
```

Figure 2 SAMPLE CARSCR FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 6C: 5552 RECORD SCD SCREENED SERVICE ACCESS CODES FORM - SACSCR

1. GENERAL

This form is available with 5E5 and later Software Releases. It is used to assign Service Access Codes that will be screened by the operating company via the SCD (Selective Carrier Denial) feature. The SCD feature allows a carrier to selectively inhibit certain carrier handled calls from lines designated as non-paying subscribers by the particular carrier.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.8.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and Office Name on each record.

2.2 * SAC

Description: Enter a three-digit Service Access Code in the NPA format where N is any digit in the range 2 - 9, P is in the range 0 - 1, and A equals 0 - 9.

Required Field.

Valid Entries: 3 digits

Data Rules:

If a SAC is entered on this form, it must be defined as the first three digits of INCOMING DIGITS on at least one LDIT form with TYPE OF CI CALL set to "SAC".

sacscr	5ESS Switch	—
(5552)	OFFICE DATA ADMINISTRATION	
	SCD SCREENED SERVICE ACCESS CODES	

*1. SAC 209

Figure 1 SAMPLE SACSCR FORM 5E5 AND LATER SOFTWARE RELEASES