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DIV. 5: ISDN/PACKET SWITCHING FORMS

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SEC. 1: ISDN LINE FORMS

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SEC. 1C: 5902-1/2 RECORD
PRIMARY OR SECONDARY ONLY KEY SYSTEM FORM - SHTN

1. GENERAL

The 5902 Record is available with 5E4(2) and later Software Releases. A telephone number which appears on more than one terminal is called a Shared TN or MLHG/TERM. Shared TNs or MLHG/TERMs are divided into Primary and Secondary TN or MLHG/TERM. This form is used to assign a Primary or Secondary TN or MLHG/TERM to ISDN Terminals.

Each ISDN terminal where the telephone appears will be provided with an indication of the status of each shared Call Appearance. Manual Exclusion, Automatic Call Exclusion, Abbreviated/Delayed Ringing, and Bridging features are also provided.

Bridging allows two terminals to talk on the same call.

Manual Exclusion allows the user to restrict members of the group from bridging on to an existing call, or from retrieving a call on hold.

Automatic Call Exclusion prevents members of the SHDN (Shared DN) group from bridging onto an active call or from remotely retrieving a call on hold.

The Abbreviated/Delayed Ringing feature provides various options for audible and visual alerting at each terminal that shares a TN.

A telephone number can only be a primary TN on one station set but it can be a call appearance on other station sets. A secondary only TN has no assigned physical equipment but can be a call appearance on other station sets.

Secondary Only TNs and MLHG/TERMs cannot be assigned any of the following features on the LINEFA, MLHLNFA, BFG or associated CLUSTR forms: ACB, ACCT, ACSR, ACVT, ARS, ASI (5E8 and later), ASP (5E9(1) and later), ATH, CWT, DISP, HI (5E6 and later), ICM, IDP, LSAC, LSAR, LSCOT, MDR, MWY, PFA, PUO, SC (5E6 and later), or TOD.

1.1 Recent Change View

The corresponding Recent Change View for this form is 23.20.

2. FORM ENTRIES - 5902-1 RECORD

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 Primary or Secondary Telephone Number of the customer. If the TN entered in this field is defined on a LINE form or DSLUSR form (5E5 and later), then this TN is a Primary TN. If the TN is not defined on one of these forms, this is a Secondary Only 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

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Data Rules:

For 5E8 and later, if this TN is a Secondary Only TN, and the Shared List contains a TN or MLHG/TERM that is defined on a DSLUSR form assigned to a Standard BRI (DSL CLS is "STD" on the associated DSL form), then on this SHTN form SAR NUM must not be entered; and SAR ORIG, SAR TERM, INCOMING, INTERCOM, ORIG CALL WAIT, and PP must be "N"; for 5E8 only, SERHLN must not be entered, and ASP ALW must be "N".

For 5E8 only, if this TN is a Primary analog TN defined on a LINE form, and any of the Shared List TNs or MLHG/TERMs are defined on a DSLUSR form assigned to a Standard BRI (DSL CLS is "STD" on the associated DSL form), then on the LINE form, SERHLN must not be entered and ASP ALW must be "N".

When the SHTN form has one or more lines terminating to an RSM, all lines on the SHTN form must terminate to the same RSM cluster (the REMOTE SITE entry on the EQIM forms must be the same).

For 5E12 and later, if the first 3 digits of the 7-digit Key TNs on the SHTN form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value for OFFICE CODE, the TN must be a 10-digit TN.

For 5E12 and later, when the Key TN(s) on the SHTN form have an NXX and/or NPA/NXX combination assigned, an OFFICE CODE and/or NPA/OFFICE CODE combination must be assigned on a NOC form.

For 5E12 and later, Key TNs, Key MLHG, Key TERM NBR combinations on different SHTN forms cannot be duplicated.

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

For 5E12 and later, the Key TNs on the SHTN form cannot match a TN in the SHARED LIST in a position other than row 1.

For 5E12 and later, the SHTN forms, where Key TN matches SHARED LIST TN in row 1 and Key MLHG is not entered, the following requirements must be met:

- At least two SHARED LIST TN or MLHG/TERM NBR combinations must be entered.
- CALL APP in row 1 of the SHARED LIST must not be entered.
- NBR in row 1 of the SHARED LIST must not be entered.
- SP DNA in row 1 of the SHARED LIST must not be entered.
- AU DNA in row 1 of the SHARED LIST must not be entered.
- BRCS must not be entered.
- E911 PSAP must not be entered.
- BILL TN must not be entered.
- DNYBV must not be entered.

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- SUST must not be entered.
- INWATS must be "N".
- TRC must be "N".
- ICP must not be entered.
- BUSY MONITOR must be "N".
- ATT MLHG must not be entered.
- RBV TGN must not be entered.
- RMK must not be entered.
- SAR NUM must not be entered.
- SAR ORIG must be "N".
- SAR TERM must be "N".
- INCOMING must be "N".
- INTERCOM must be "N".
- ORIG CALL WAIT must be "N".
- PP must be "N".
- NON-HUNT TN must not be entered.
- MMB SUBGP must not be entered.
- RND SUBGP must not be entered.
- NI SAR LIST entries must not be entered.
- CONTEXT ID must be "N" for 5E12 and 5E13 and "NATIVE" for 5E14.

For 5E12 and later, when two (or more) Key TN and/or Key MLHG/TERM NBR combinations on two (or more) SHTN forms have the same last 7 digits of the TN for Key TNs or the same last 7 digits of CKT MLHG TN found on the corresponding DSLUSR forms for Key MLHG/TERM NBRs, then the SHARED LIST elements TN or MLHG/TERM NBR (2 - 32 for a primary MLHLN, or 1 - 32 for a secondary only terminal) cannot be duplicated between SHTN lists of those SHTN forms if EKTS is "BASIC" on DSLUSR forms which correspond to the SHARED LIST TN or MLHG/TERM NBR.

The corresponding DSLUSR form for the SHTN form Key MLHG/TERM NBR is found by matching the DSLUSR CKT MLHG/CKT TERM entries with the SHTN Key MLHG/TERM NBR entries. The corresponding DSLUSR form for SHTN Key TN is found by matching the DSLUSR CKT TN entries with the SHTN Key TN entries.

The corresponding DSLUSR form for the SHTN SHARED LIST elements is found by matching the SHARED LIST TN with the CKT TN on the DSLUSR form, or the SHARED LIST MLHG/TERM NBR on the SHTN form

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with the CKT MLHG/CKT TERM on the DSLUSR form.

These same rules apply to Primary MLHG/TERM NBR SHTN forms and Secondary MLHG/TERM NBR SHTN forms. A Primary SHTN form exists when the Key MLHG/TERM NBR are known and match the MLHG/TERM NBR which are entered in the first row of the SHARED LIST or the Key TN is known, the Key MLHG/TERM NBR is unknown and Shared LIST 1 TN equals the Key TN. The known SHARED LIST elements from 2 - 32 are examined to determine the conflict. A Secondary SHTN form exists when the Key MLHG/TERM NBR are entered and TN is entered in the first row in the SHARED LIST or the Key TN is entered and the TN entered in the first row is different for the Key TN. The known SHARED LIST elements from 1 - 32 are examined to determine the conflict.

2.3 (*) MLHG

Description: Enter the Multi-Line Hunt Group Number. If the MLHG and TERM NBR entered on this form is defined on an MLHLN form or a DSLUSR form (5E5 and later) , then this MLHG/TERM is a Primary shared terminal. If the MLHG and TERM NBR is not defined on one of these forms, this is a Secondary-Only terminal.
Valid Entries:

For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

All three optional key fields may be entered for Secondary terminals only. This allows a TN to be associated with a Secondary Only terminal.

For a Secondary Only MLHG terminal, a corresponding MLHG form must be defined.

For 5E5 and later, if both this field and the ATT MLHG field are entered, then the MLHG must be defined in the MLHG field of an MLHG form such that the MLHG FEATURE is defined on an MLHGFD form (5604 Record) with a HUNT TYPE that is neither "ISAT" nor "MUPH".

For 5E8 only, if this MLHG/TERM is a Primary analog MLHG/TERM defined on a MLHLN form, and any of the Shared List TNs or MLHG/TERMs are defined on a DSLUSR form assigned to a Standard BRI (DSL CLS is "STD" on the associated DSL form), then on the MLHLN form, SERHLN must not be entered and ASP ALW must be "N".

For 5E8 and later, if this is a Secondary Only MLHG/TERM, and the Shared List contains a TN or MLHG/TERM that is defined on a DSLUSR form assigned to a Standard BRI (DSL CLS is "STD" on the associated DSL form), then on this SHTN form SAR NUM must not be entered; SAR ORIG, SAR TERM, INCOMING, INTERCOM, ORIG CALL WAIT, and PP must be "N"; for 5E8 only SERHLN must not be entered, and ASP ALW must be "N".

For 5E8 and later, MLHGs that include Secondary Only terminals shared to Standard BRI terminals may not have a Precedence Hunt Type. That is, if this form defines a Secondary Only MLHG/TERM, and any member of the Shared List is defined on a DSLUSR form that is associated with a DSL form where DSL CLS is "STD", then the MLHG, as defined on the MLHG form, may not be assigned an MLHG FEATURE with HUNT TYPE set to "PMHG" on the MLHGFD form.

If a member of the Shared List is defined as a CKT TN or CKT MLHG/TERM on a DSLUSR form where EKTS is "BASIC", then the key MLHG and TERM NBR on this SHTN form must be defined as CKT MLHG and TERM on a DSLUSR form where a value is entered in CKT SWITCHING MLHG TN.

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For a Secondary Only terminal where the key MLHG/TERM fields are entered, and a member of the Shared List is defined as CKT TN or CKT MLHG/TERM on a DSLUSR form where EKTS is "BASIC", then the key TN must be entered on this SHTN form.

2.4 (*) TERM NBR

Description: Enter the Multi-Line Hunt Terminal Number.
Valid Entries: 1 - 2015

2.5 ADR TIME

Description: Enter the Abbreviated/Delayed Ringing Time in seconds. Abbreviated Ringing time indicates the length of time before audible ringing stops. Delayed Ringing indicates the length of time before ringing begins.
Valid Entries: 0 - 255 (seconds)

Data Rules:

When ADR PAT is "DEL", "ABR", or "DRI", ADR TIME must be greater than 0; when ADR PAT is any other value, ADR TIME must be 0 or blank.

SHARED LIST

For 5E7 and earlier, a maximum of 8 entries may be defined in the SHARED LIST (fields Section 2.6 - Section 2.15). For 5E8 and later, the list has been expanded to accept 32 entries.

For 5E8 and later, the list entries will be sorted before being loaded into the 5ESS Switch. The first row will be left in place, to be followed by 1) entries that reside on the same SM and connect to the same PH (Protocol Handler) as the first entry; 2) entries that reside on the same SM but do not connect to the same PH, sorted by PH; and 3) all other entries, sorted by SM and PH.

NOTE: The PH identifier is composed of the Shelf and Channel Group numbers from the D ISCN field on the associated DSL form.

For 5E5 and later, each TN assigned in the list must be defined in the TN field of the LINE form or in the CKT TN field of the DSLUSR form. Each MLHG and TERM assigned in the list must be defined in the MLHG and TERM fields of the MLHLN form or in the CKT MLHG and TERM fields of the DSLUSR form (TERM TYPE and OE fields must be entered).

If a TN defined on the LINE form (or an MLHG/TERM defined on the MLHLN form) is entered in the SHARED LIST, it must be a primary TN (MLHG/TERM).

For 5E8 and later, Standard and Custom DSL terminals may not appear in the same Shared List. All terminals that are in the Shared List and are defined on DSLUSR forms must be associated with DSL forms where DSL CLS is "STD", or all must be associated with DSL forms where DSL CLS is "PP" or "MP".

For 5E8 only, analog and Custom ISDN terminals may not series complete to Standard IDSN terminals. If members of the Shared List on this SHTN form are associated with Standard DSLs, the key TN may not be assigned as a series completion number in the SERHLN field on a LINE, MLHLN, DSLUSR, or another SHTN form.

PRIMARY: A primary TN or MLHG/TERM is designated by duplicating the key TN or MLHG/TERM in row 1 of the SHARED LIST. The CALL APP, NBR, SP DNA (5E9(1) and later), and AU DNA (5E9(1) and later) fields must be blank. For ISDN terminals, values from the FIRST CA and NUM CA fields on the DSL or

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DSMLHLN form will be used for the CALL APP and NBR fields on this form. For analog lines, a 1 will be used for the CALL APP and NBR fields.

The TN or MLHG/TERM listed in rows 2 through 32 are the primary TNs or MLHG/TERMs associated with the station sets that the primary TN or MLHG/TERM listed in row 1 is to appear on.

At least two row entries must be entered in the SHARED LIST. Only the default values assigned on Screen 2 are allowed.

SECONDARY/SECONDARY ONLY: A secondary only TN or MLHG/TERM is defined by entering the Secondary TN in the key TN or MLHG/TERM. The Secondary TN or MLHG/TERM entered in the key field must not be entered in the first row of the SHARED LIST. The TNs or MLHG/TERMs entered in the SHARED LIST are the primary TNs or MLHG/TERMs associated with the station sets that the Secondary TN or MLHG/TERM is to appear on.

Secondary only TNs or MLHG/TERMs must not be assigned to any physical equipment, therefore they should not be assigned on a LINE, MLHLN, DSL or DSMLHLN form. At least one row entry must be entered in the SHARED LIST.

2.6 TN

Description: Enter the SHARED LIST 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:

At least one SHARED LIST TN or MLHG/TERM NBR combination must be specified. The TNs specified within the SHARED LIST must be unique.

For 5E8 only, if the SHARED LIST TN is defined on a DSLUSR form (5908 Record) as a CKT TN, then if EKTS on the DSLUSR form is "BASIC", CALL APP must not be entered in this shared list item, and NBR must be 1.

For 5E8 and later, if the SHARED LIST TN is defined on a DSLUSR form (5908 Record) as a CKT TN, then:

- If EKTS is "CACH", and the user is assigned to a Standard DSL (DSL CLS is "STD" on the associated DSL Form), CALL APP must be entered;
- If EKTS is not entered and DSL CLS is not "STD", CALL APP must be entered for this shared list item.

For 5E9(1) and later, if SHARED LIST TN is defined on a DSLUSR form as a CKT TN, with EKTS on DSLUSR as "BASIC", both CALL APP and NBR must be blank; if EKTS is other than "BASIC", both CALL APP and NBR must be entered.

For 5E12 and later, if the first 3 digits of the 7-digit SHARED LIST TNs on the SHTN form are equal 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 SHARED LIST TN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

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For 5E12 and later, the SHARED LIST TNs on the SHTN form can not match another SHARED LIST TN in the SHARED LIST.

For 5E12 and later, when the SHTN forms have Key TN, MLHG and TERM NBR entered, the SHARED LIST TN in row 1 cannot match the Key TN on the same SHTN form.

2.7 MLHG

Description: Enter the SHARED LIST Multi-Line Hunt Group Number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

At least one SHARED LIST TN or MLHG/TERM NBR combination must be specified. The MLHG/TERM NBR combination specified in the SHARED LIST must be unique.

For 5E8 only, if the SHARED LIST MLHG and TERM are defined on a DSLUSR form (5908 Record) as a CKT MLHG/TERM, and EKTS on the DSLUSR form is "BASIC", CALL APP must not be entered in this shared list item, and NBR must be 1.

For 5E8 and later, if the SHARED LIST MLHG and TERM are defined on a DSLUSR form (5908 Record) as a CKT MLHG/TERM, then:

- If EKTS is "CACH", and the user is assigned to a Standard DSL (DSL CLS is "STD" on the associated DSL Form), CALL APP must be entered;
- If EKTS is not entered and DSL CLS is not "STD", CALL APP must be entered.

For 5E9(1) and later, if SHARED LIST MLHG is defined on a DSLUSR form as a CKT MLHG, with EKTS on DSLUSR as "BASIC", both CALL APP and NBR must be blank; if EKTS is other than "BASIC", both CALL APP and NBR must be entered.

2.8 TERM NBR

Description: Enter the SHARED LIST Multi-Line Hunt Terminal Number.
Valid Entries: 1 - 2015

2.9 CALL APP

Description: Enter the button number where the first Call Appearance will appear.
Valid Entries: 1 - 254

Data Rules:

The sum of the CALL APP and NBR fields must not exceed 255. If the SHARED LIST TN or MLHG/TERM NBR entered is not primary, a CALL APP must be specified.

For 5E8 and later, a CALL APP must be entered for EKTS CACH or custom TNs or MLHG/TERM NBRs.

For 5E9(1) and later, if CALL APP is entered, SP DNA and AU DNA must not be entered.

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2.10 NBR

Description: Enter the Number of Call Appearances.
Valid Entries: 1 - 16

Data Rules:

The sum of the CALL APP and NBR fields must not exceed 255. If the SHARED LIST TN or MLHG/TERM NBR entered is not primary, a NBR must be specified.

For Secondary TNs, the first row entry of NBR must be the maximum NBR value or share the maximum NBR value entered on the form.

For 5E8 and later, NBR must be entered for EKTS CACH or custom TNs or MLHG/TERM NBRs.

For 5E9(1) and later, if NBR is entered, SP DNA and AU DNA must not be entered.

2.11 MAN EXCL

Description: Is Manual Exclusion allowed? Manual Exclusion can be activated by an access code or button.

Software Release: 5E6 and earlier
Valid Entries: Y, N

2.12 SP DNA

Description: Enter the DN (Directory Number) CA for speech. This is a field for ATS (Automatic Terminal Setup). See Division 2, Section 1AM for more information on ATS. ISDN routing and digit analysis require speech and audio (voiceband data, e.g., facsimile and modems) calls to be routed differently. Speech treatments should not be applied to an audio call to maintain the integrity of the bit stream. See Division 2, Section 1W for more information on audio and speech calls.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If SP DNA and AU DNA are both entered, they must not be equal.

SP DNAs may be entered for Basic EKTS terminals.

2.13 AU DNA

Description: Enter the DN CA for audio. This is a field for ATS (Automatic Terminal Setup). See Division 2, Section 1AM for more information on ATS.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If SP DNA and AU DNA are both entered, they must not be equal.

AU DNAs may be entered for Basic EKTS terminals.

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2.14 CALL EXCL

Description: Is Call Exclusion allowed?

Software Release: 5E7 and later
Valid Entries:

Valid CALL EXCL Entries

Entry	Definition
N	Indicates that Call exclusion is not allowed.
M	Indicates that Call Exclusion is allowed, however, this option must be activated manually by pressing a feature button or dialing a code.
A	This option automatically activates Call Exclusion upon origination and termination on this Secondary only/Primary TN or MLHG/TERM NBR.

Data Rules:

For 5E8 and later, when members of the same Shared List are Standard DSL users, they may not have a mixture of manual and automatic call exclusion options. All members must have CALL EXCL set to "M", "N", or blank; or all must have it set to "A", "N", or blank.

2.15 ADR PAT

Description: Abbreviated and Delayed Ringing Pattern. Indicate the Ringing pattern assigned to this terminal which shares a TN.

Valid ADR PAT Entries

Entry	Definition
NOR	Normal Ringing indicates that both visual and audible ringing are assigned.
NON	No Ringing indicates visual ringing is provided with no audible ringing.
DEL	Delayed Ringing indicates that both audible and visual ringing will be delayed for a given amount of time. The length of the delay must be defined in the ADR TIME field.
ABR	Abbreviated Ringing indicates that audible ringing will stop after a given amount of time. Although the audible ringing stops, visual ringing continues. The length of time that audible ringing is provided must be defined in the ADR TIME field.
DRI	Software Release: 5E7 and later. Delayed Ringing with Immediate Display indicates that visual ringing will begin immediately, but audible ringing will be delayed for the length of time defined in the ADR TIME field.
NRN	Software Release: 5E7 and later. No Ring, No Display, indicates that neither audible nor visual ringing will be provided.

2.16 EPO ON

Description: Should call and event information be tracked on calls to or from the call appearances of the TN or MLHG and TERM NBR specified as the key on the terminal on which the TN or MLHG and TERM NBR in the SHARED LIST is primary.

When EPO ON is set to "Y" and at least one of the terminals in the SHARED LIST is designated as an EPO position (EPO POS NUM on DSLUSR is entered), event information for calls and events to and from the call appearances of the TN or MLHG and TERM NBR (specified as key) on the terminal on which the TN or MLHG and TERM NBR in the SHARED LIST is primary is sent to the MIS (Management Information Systems). The information includes reports on terminal usage, status, event codes, and call-related events associated with the tracked TN or MLHG and TERM NBR. The MIS compiles the call data and provides user reports and displays to the customer.

When EPO ON is set to "Y" in the SHARED LIST and the TN or MLHG and TERM NBR are specified as the

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key and is shared on at least one terminal in the SHARED LIST which is an EPO position terminal (has EPO POS NUM entered on DSLUSR), then the TN or MLHG and TERM NBR specified as the key has the capability of being tracked on any terminal on which it has call appearances. Complete information for calls originating from or terminating to these call appearances on the terminal specified in the SHARED LIST is sent to the MIS only when the terminal in the SHARED LIST is defined as an EPO position terminal (EPO POS NUM is entered on DSLUSR). If the terminal in the SHARED LIST is not defined as an EPO position terminal (EPO POS NUM is not entered on DSLUSR):

- Calls from the call appearances of the TN or MLHG and TERM NBR specified as the key on the terminal in the SHARED LIST are not tracked.
- Calls to the call appearances of the TN or MLHG and TERM NBR specified as the key on the terminal in the SHARED LIST are tracked for shared call information.

When EPO ON in the SHARED LIST is set to "N", calls to or from the call appearances of the TN or MLHG and TERM NBR on the terminal in the SHARED LIST are not tracked.

Software Release: 5E11 and later.
Default: N
Valid Entries: Y, N

Data Rules:

When the SHTN form primary TNs match a DSLUSR form CKT TN, the entry in the DSLUSR form EPO ON field must be the same as the entry in the SHTN form SHARED LIST row 1 EPO ON field.

When the SHTN form primary MLHG/TERM NBRs matches the DSLUSR form CKT MLHG/TERMs, the entry in the DSLUSR form EPO ON field must be the same as the entry in the SHTN form SHARED LIST row 1 EPO ON field.

When the SHARED LIST Row TN on the SHTN form is associated with a CKT TN on a DSLUSR form that has an ACD POS NUM entry, the EPO ON field for that SHARED LIST Row must be "N".

When the SHTN forms have one or more SHARED LIST TNs defined on a DSLUSR form where the corresponding DSL form (DSL form DSL OE matches DSLUSR form OE) has DSL CLS set to "STD", the EPO ON entry in the SHARED LIST row involved in the match to DSLUSR must be "N".

When the SHTN forms have one or more SHARED LIST MLHG/TERM NBR combinations defined on a DSLUSR form where the corresponding DSL form (DSL form DSL OE matches DSLUSR form OE) has DSL CLS set to "STD", the EPO ON entry in the SHARED LIST row involved in the match to DSLUSR must be "N".

When the SHTN form Key MLHG/TERM NBR combination matches the MLHG/TERM NBR entry in Row 1 of the same SHTN form SHARED LIST and also matches an MLHLN form MLHG/TERM combination, this scenario is defined as a shared analog MLHG. In such a case, the entry in the SHTN SHARED LIST Row 1 EPO ON field must be "N".

3. FORM ENTRIES - 5902-2 RECORD

SECONDARY ONLY

Secondary Only fields (Section 3.1 - Section 3.30) should be defined for Secondary Only TNs and MLHG/TERMs.

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Data Rules:
For 5E12 and later, the Secondary Only TNs on the SHTN form (where Key TN does not match SHARED LIST TN from row 1 or SHARED LIST MLHG from row 1 is entered), must meet all of the following requirements:

- If BUSY MONITOR is "Y", ATT MLHG must be entered.
- The first row entry must have the maximum value or share the maximum value of NBR.
- INWATS must be "N".
- NON-HUNT TN cannot be entered.
- ATT MLHG and RBV TGN cannot be entered at the same time.
- When RBV TGN is entered, BUSY MONITOR must be "N".
- MMB SUBGP cannot be entered.
- RND SUBGP cannot be entered.

3.1 BRCS

Description: Can BRCS features be assigned to this line? This field applies to secondary only TNs and MLHG/TERMs.
Valid Entries: Y, N

Data Rules:

If "Y" is entered, the Primary TN or Primary MLHG/TERM must be assigned on the LINEFA or MLHLNFA forms, respectively.

For 5E8, if the lead TN or MLHG/TERM NBR has been assigned an LCC/RAX on a LINE, MLHLN or DSLUSR form where the corresponding LCC form has DIGIT ANALYSIS SELECTOR equal to the ASP DAS on the OFCOPT form, then BRCS must be "N".

3.2 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
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 the first TN (or MLHG/TERM NBR) entry in the SHARED LIST is the same as the key TN (MLHG/TERM NBR), E911 PSAP cannot be entered.

If a primary E911 PSAP TN (or MLHG/TERM NBR) is assigned in the key TN (or MLHG/TERM NBR) field

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(i.e., the key TN (MLHG/TERM NBR) matches the SHARED LIST ROW 1 TN (MLHG/TERM NBR) and is defined as a CKT TN (CKT MLHG/TERM) on a DSLUSR form where E911 PSAP is "Y"), then all TN or MLHG/TERM NBR entries in the SHARED LIST must also be defined as CKT TNs or CKT MLHG/TERMs on DSLUSR forms where E911 PSAP is "Y".

When values are entered in the MLHG/TERM NBR and E911 PSAP fields, the value entered for E911 PSAP must match the E911 PSAP entry on the corresponding MLHG form.

When E911 PSAP for Secondary Only is "Y", the following rules apply.

- SUST must be "N", and SERHLN cannot be entered.
- All entries in the SHARED LIST must be defined on DSLUSR forms (SHARED LIST TN or MLHG/TERM NBR matches CKT TN or CKT MLHG/TERM on the DSLUSR form) where E911 PSAP is "Y".
- The OE of the SHARED LIST ROW 1 TN or MLHG/TERM NBR (entered on the corresponding DSLUSR form) must be defined on a DSL form where DSL CLS is "MP" or "PP"; that is, it must be a custom DSL. If DSL CLS is "PP", ACSR GRP must be blank.
- The CKT SWITCHING LCC and RAX of the SHARED LIST ROW 1 TN or MLHG/TERM NBR (entered on the corresponding DSLUSR form) must be defined on an LCC form where CLASS OF SERVICE is "ISDN".
- The TN may not be a series completion DN on another form; that is, it may not appear in the SERHLN field on a LINE, MLHLN, DSLUSR, or SHTN form.
- The TN may not be assigned the following types of BRCS features on the LINEFA, CLUSTR, or BFG form: ACCT, ACSR, ARS, ATH, CFW (where CFPF ALW is "Y"), ICM, MDR, MS, PFA, PP, PUO, PUT, TGSR, or TOD.
- The MLHG/TERM NBR may not be assigned the following types of BRCS features on the MLHLNFA, CLUSTR, or BFG form: ACCT, ACSR, ARS, ATH, CFW (where CFPF ALW is "Y"), ICM, MDR, MS, PFA, PP, PUO, PUT, TGSR, or TOD.

3.3 BAUTO

Description: This is a Recent Change only field.

3.4 SAR NUM

Description: The next three fields provide the option of reserving call appearances for originating or terminating calls.

Reservations can be one of three types:

- Origination only: SAR ORIG field equal to "Y"
- Termination only: SAR TERM field equal to "Y"
- Origination and priority terminations: SAR ORIG and SAR TERM fields equal to "Y". Priority terminations are defined in the INCOMING, INTERCOM, ORIG CALL WAIT and PP fields. One or more priority terminations must be defined.

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The SAR NUM field is the number of subaddresses reserved. It applies to secondary only TNs and defines the number of call appearances to be reserved for originating or terminating calls. The number of subaddress reservations is less than or equal to the largest value in the NBR field. The highest numbered subaddresses are reserved. For example, if CALL APP is 1, NBR is 3 and SAR NUM is 2, then call appearances 2 and 3 are reserved.
Valid Entries: 1 - 16

Data Rules:

If SAR NUM is blank, then SAR ORG and SAR TERM must be "N".

3.5 # SAR ORIG

Description: Will call appearances be reserved for originating calls? Any attempt to terminate to the subaddress reserved for originating calls will result in a busy signal. Originations will be handled normally.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

3.6 # SAR TERM

Description: Will call appearances be reserved for terminating calls? Any attempt to originate on a subaddress reserved for terminating calls will be denied. Calls will terminate normally.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

3.7 # INCOMING

Description: Are incoming calls to a terminal group a priority? This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If INCOMING is "Y", then SAR ORIG and SAR TERM must be "Y".

3.8 # INTERCOM

Description: Are ISDN Intercom calls a priority? This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

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Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If INTERCOM is "Y", then SAR ORIG and SAR TERM must be "Y".

3.9 # ORIG CALL WAIT

Description: Are originating calls a priority? This is the ISDN equivalent of call waiting origination. This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ORIG CALL WAIT is "Y", then SAR ORIG and SAR TERM must be "Y".

3.10 # PP

Description: Are Priority and Preemption calls a priority? This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PP is "Y", then SAR ORIG and SAR TERM must be "Y".

3.11 BILL TN

Description: Enter a 7 or 10-digit telephone number if billing is to be charged to a number other than the key TN. This field applies to secondary only TNs and MLHG/TERMs.
Valid Entries: 7 digits (0 - 9); or ten digits (first digit 2 - 9, second digit 0 - 1, remaining digits 0 - 9)

3.12 IBV

Description: Is Busy Verification allowed for this secondary only TN or MLHG/TERM? If this field is set to "N", Busy Verification will be denied. IBV applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.
Valid Entries: Y, N

3.13 SUST

Description: Is terminating service allowed for this secondary only TN or MLHG/TERM? If this field is set to "N", terminating service will be suspended; the TN or MLHG/TERM will not be allowed to receive calls. SUST applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.
Valid Entries: Y, N

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3.14 # INWATS

Description: Is the MLHG Inwats? Only Secondary MLHG/TERMs with an associated TN can have a "Y" in this field.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then ICP must be "N".

3.15 ICP

Description: Should terminating calls be routed to regular intercept? This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.
Valid Entries: Y, N

3.16 # TRC

Description: Is Call Tracing on calls allowed? This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

Required Field.
Default: N
Valid Entries: Y, N

3.17 # BUSY MONITOR

Description: Can the key TN be monitored by the Busy Lamps of an ISDN Attendant MLHG?

Required Field.
Default: N

Data Rules:

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;

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- A LISTED TN from an MLHG 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 or ILEN from a DSL 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 or ILEN 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 or ILEN 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 or ILEN on that DSMLHLN form will be counted.

This field must be "N" if 1 is entered in the key TERM field. For 5E4(2), if this field is "Y", an ISAT GRP must be entered. This field applies to secondary only TNs and secondary only MLHG/TERMs with an associated TN.

For 5E5 and later, if this field is "Y", the ATT MLHG field must be entered.

3.18 ATT MLHG

Description: Enter the Attendant MLHG that can control the TN that is shared 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, it must be defined in the MLHG field on an MLHG form (5110-1 Record) with an MLHG FEATURE associated with a HUNT TYPE of "ISAT" or "MUPH" on an MLHGFD form (5604 Record). If the HUNT TYPE is not "ISAT", BUSY MONITOR must be "N".

If this field is entered and TERM NBR is "001", then the MLHG must be defined on an MLHG form with ATT MLHG equal to the ATT MLHG on this form.

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

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3.19 RBV TGN

Description: Enter the number of the incoming trunk group used to Remote Busy Verify the Secondary Only TN (DN) or the TN associated with a Secondary Only terminal on this form. Remote Busy Verify cannot be assigned to Primary TNs or Primary Terminals on 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 Secondary Only 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, BUSY MONITOR must be "N", and TN must be entered.

If TN(key) matches SHARED LIST row 1 TN, RBV TGN must not be entered. If MLHG/TERM NBR(key) matches SHARED LIST row 1 MLHG/TERM NBR, RBV TGN must not be entered. If RBV TGN is entered and a Secondary Only MLHG/TERM is entered, the TN key field must 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 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, the corresponding DSLUSR form must have CSV entered and greater than zero.

3.20 PORTED

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

Software Release: 5E11 and later
Valid Entries: Y, N

3.21 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

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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 set to "Y", the ACT field for SFID 216 on the SFSYS form must be set to "Y". And if SFID 216 is set to "Y", SFID 174 must also be set to "Y".

NON COND TRIG must be "N" for Primary TNs, Primary MLHG members, Secondary only MLHG members, and Secondary only MLHG members with a DN.

NON COND TRIG can only be "Y" for Secondary only TNs.

3.22 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.

3.23 ASP ALW

Description: Is this Secondary Only TN allowed to originate ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) calls via an ODP Feature/Prefix Code trigger? (This field was called PVN ALW for 5E6 - 5E7).

Software Release: 5E6 - 5E8
Required Field.
Default: 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".

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); note that the LCC form will be found by using the LCC and RAX from the DSLUSR form (5908 Record) defining this line's lead TN or MLHG Member (as assigned by TN or MLHG and TERM NBR in the first element of the SHARED LIST). Likewise, DIGIT ANALYSIS SELECTOR should not be equal to a DAS equivalent in functionality to the PVN DAS (i.e., a virtual ASP DAS).

3.24 SERHLN

Description: SERHLN defines a Series Completing to Telephone Number. Series Completion supports BRI (Basic Rate Interface) lines for CSV (Circuit-Switched Voice) calls. The feature hunts a linked-list DN until an idle line is found or until 16 Series Completion attempts are made. A maximum of 50 TNs can Series Complete to a single TN defined on this form or on the DSLUSR, LINE or MLHLN forms.

Software Release: 5E6 and later
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

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Data Rules:

When this field is entered, the following conditions must be true: ICP must be "N", the TN field must be entered, SERHLN cannot equal the TN field, PVN ALW must be "N" (5E6 - 5E8). SERHLN cannot be entered when either CKT ICP or PVN ALW (5E6 -5E8) is "Y".

When SERHLN, MLHG and TERM NBR are entered, NON-HUNT TN must be "Y".

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 another SHTN form where any shared list entry is defined on a DSLUSR form with DSL CLS "STD" on the corresponding DSL form.

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

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

For 5E12 and later, if the 3 digits of the 7-digit SERHLNs on the SHTN form are equal 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 SERHLN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

3.25 MONITORED TN

Description: The MONITORED TN field is used to indicate whether or not this line is monitored by one or more ISDN terminals. This field supports the Telephone Status Monitor and Select Feature. For more information, see Div. 2 Sec. 4A264. The field is used by Recent Change only and cannot be accessed by ODA.

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3.26 CONTEXT ID

Description: This field is used to indicate whether or not a shared directory number is "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 SHTN 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 first TN entry from the SHARED LIST is equal to the key TN, CONTEXT ID must be set to "N" or "NATIVE".

When the first MLHG/TERM entry from the SHARED LIST is equal to the key MLHG/TERM, CONTEXT ID must be set to "N" or "NATIVE".

3.27 RMK

Description: Enter a descriptive comment. This field applies to secondary only TNs.
Valid Entries: up to 16 characters.

MLHG TERM

The following fields (Section 3.28 - Section 3.30) apply to Secondary Only MLHG terminals.

3.28 NON-HUNT TN

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. This field applies to secondary only MLHG/TERMs with an associated TN.
Valid Entries: Y, N

3.29 MMB SUBGP

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Description: Enter the Member Make Busy Subgroup number for the Secondary MLHG Terminal. The number here designates a subgroup. All members in the same subgroup have the same Make Busy Subgroup number. Subgroups exist within an MLHG; MMB SUBGP values can appear in multiple MLHGs, but each combination of MLHG and MMB SUBGP defines a unique subgroup.
Valid Entries: 1 - 255

3.30 RND SUBGP

Description: Enter the Random Make Busy Subgroup number for the Secondary MLHG Terminal. The number here designates a subgroup. All members in the same subgroup have the same Random Make Busy Subgroup number. Subgroups exist within an MLHG; RND SUBGP values can appear in multiple MLHGs, but each combination of MLHG and RND SUBGP defines a unique subgroup.
Valid Entries: 1 - 255

NI SAR LIST (SARLIST)

The following fields (Section 3.31 - Section 3.32) describe the NI SAR LIST. These fields support the ISDN Call Appearance Reservation Feature. See Division 2, Section 1BM for more information.

Subaddress reservation list contains up to 3 entries which consist of type of subaddresses to reserve, the order in which the type of reservation specified should appear with respect to the other types of subaddresses reserved, if any, and the number of subaddresses to reserve for that type of subaddress reservation.

3.31 TYPE AND ORDER

Description: The TYPE AND ORDER field is used to specify the type and order of subaddresses to reserve for call appearance reservation. The subaddress types can be reserved in any order with respect to one another; however, all subaddresses within one category must be reserved contiguously (i.e. each reservation type may appear only once in NI SAR LIST(SARLIST) field). The location of the list entry determines the ordering of the reservation type with respect to the other types of subaddresses reserved, if any. The reserved subaddresses are assigned to the highest numbered subaddresses associated with the circuit telephone number specified in the CKT TN field.

Example 1:
The following is an example of the assignment of call appearance reservation to a non-shared secondary-only TN.

A secondary-only TN is inserted on the SHTN form (the key is the secondary-only TN), and is assigned to appear on a terminal where a Standard ISDN circuit TN is primary and the EKTS field is set to "CACH" on the DSLUSR form. This is accomplished by putting the circuit TN in the SHARED LIST and assigning a value in the CA and CA QTY fields. The secondary-only TN is assigned to appear on the circuit TN's terminal starting at CA 10 for a CA QTY of 4. Therefore, four appearances of the secondary-only TN will appear on the terminal where the circuit TN is primary.

The NI SAR LIST for the secondary-only TN is set up as follows:

NI SAR LIST		
ROW	TYPE AND ORDER	QTY
1	ORIG	1
2	TERM	1

In this example, the secondary-only TN is a non-shared secondary-only, since the TN only appears on one terminal, the circuit TN's primary terminal. The secondary-only TN has four subaddresses, since it appears for four call appearances on the terminal. Therefore, the secondary-only may have up to four subaddresses

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reserved for call appearance reservation. In this example, only two of the secondary-only TN's subaddresses are to be reserved (sum of QTYcolumn). Since the reserved subaddresses are the highest numbered subaddresses of the TN, it is the last two of the four subaddresses (subaddresses 3 and 4 of the TN) which will have subaddress reservation. The order of the types of reservation follows the order specified in the NI SAR LIST field. Therefore, subaddress 3 of the TN will be reserved for originations ("ORIG") since a QTY of 1 subaddress is specified to be reserved for "ORIG" and it is the first TYPE in the NI SAR LIST. Subaddress 4 will be reserved for terminations ("TERM"), since a QTY of 1 subaddress is specified to be reserved for TERM and it is the second TYPE in the NI SAR LIST. Any non-reserved subaddresses are the lowest numbered subaddresses of the TN (in this example, subaddresses 1 and 2 are not reserved).

On the Standard "CACH" terminal (where the circuit TN is primary), the subaddresses correspond to call appearances as follows:

- CA 10 is subaddress 1 of secondary-only TN (not reserved)
- CA 11 is subaddress 2 of secondary-only TN (not reserved)
- CA 12 is subaddress 3 of secondary-only TN (reserved for originations)
- CA 13 is subaddress 4 of secondary-only TN (reserved for terminations)

Example 2:
Assigning call appearance reservation to a shared TN (secondary-only or primary).

When a TN (secondary-only or primary) is shared, its subaddresses and corresponding subaddress reservation is also shared. The following example will demonstrate the shared scenario when call appearance reservation is assigned.

A circuit TN has been defined on the DSLUSR form to have 5 call appearances (CA QTY is 5) starting at call appearance 3 (CA is 3) on the terminal on which the circuit TN is primary, and NI SAR LIST is set up as follows.

NI SAR LIST		
ROW	TYPE AND ORDER	QTY
1	PRIO	1
2	TERM	2
3	ORIG	1

In this example, the circuit TN has five subaddresses (CA QTY is 5). Four of the circuit TN's five subaddresses are to be reserved (sum of the QTY column). Since the reserved subaddresses are the highest numbered subaddresses of the circuit TN, it is the last four of the five subaddresses (subaddresses 2, 3, 4, and 5 of the circuit TN) which will have subaddress reservation. The order of the types of reservation follows the order specified in the NI SAR LIST field. Therefore, subaddress 2 of the circuit TN will be reserved for originations and priority incoming terminations ("PRIO") since a QTY of 1 subaddress is specified to be reserved for "PRIO" and it is the first TYPE in the NI SAR LIST. Subaddresses 3 and 4 will be reserved for terminations ("TERM"), since a QTY of 2 subaddresses is specified to be reserved for TERM and it is the second TYPE in the NI SAR LIST. Finally, subaddress 5 will be reserved for originations ("ORIG"), since a QTY of 1 subaddress is specified to be reserved for ORIG and it is the third type in the NI SAR LIST. Any non-reserved subaddresses are the lowest numbered subaddresses of the circuit TN (in this example, subaddress 1 is not reserved).

On this terminal (the circuit TN's terminal), the subaddresses correspond to call appearances as follows:

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- CA 3 is subaddress 1 (not reserved)
- CA 4 is subaddress 2 (reserved for "ORIG" and "PRIO" terminations)
- CA 5 is subaddress 3 (reserved for terminations only)
- CA 6 is subaddress 4 (reserved for terminations only)
- CA 7 is subaddress 5 (reserved for originations only)

Next, the circuit TN (circuit TN A) is shared onto another terminal where circuit TN B is primary. This is accomplished through this form and circuit TN A is assigned to appear on the terminal where circuit TN B is primary starting at call appearance 20 (CA is 20) for three call appearances (CA QTY is 3). Therefore, only three of circuit TN A's subaddresses are to be shared, and they will be the lowest numbered subaddresses of circuit TN A, in this case subaddresses 1, 2, and 3. The subaddresses will also carry any subaddress reservation they have assigned to the terminal(s) on which they are shared. So in this example, subaddress 1 of circuit TN A will appear on circuit TN B's terminal and will be non-reserved (because subaddress 1 of circuit TN A is non-reserved). Subaddress 2 of circuit TN A on circuit TN B's terminal will be reserved for originations and priority terminations (because subaddress 2 of circuit TN A is reserved for this type of reservation). Similarly, subaddress 3 of circuit TN A on circuit TN B's terminal will be reserved for terminations. If subaddresses 4 and 5 were also shared, the reservation type for those subaddresses would be carried, but in this case those subaddresses do not appear on circuit TN B's terminal, so circuit TN A has no subaddresses reserved for originations- only on circuit TN B's terminal.

On circuit TN B's terminal, the subaddresses correspond to call appearances as follows:

- CA 20 is subaddress 1 of circuit TN A (non-reserved)
- CA 21 is subaddress 2 of circuit TN A (reserved for originations and priority terminations)
- CA 22 is subaddress 3 of circuit TN A (reserved for terminations only)

Software Release: 5E11 and later.
Valid Entries:

Valid TYPE AND ORDER Entries

Entry	Definition
ORIG	Subaddress(es) reserved for originations only.
PRIO	Subaddress(es) reserved for originations and priority incoming terminations.
TERM	Subaddress(es) reserved for terminations only.
blank	No subaddress reservation.

Data Rules:

When TYPE AND ORDER is "ORIG" and QTY is equal to the highest value of SHARED LIST NBR, BUSY MONITOR must not be "Y".

When the first row TN entry from SHARED LIST is equal to the key TN (ie. Primary TN), the NI SAR LIST entries cannot be made.

When the first TN or MLHG/TERM entry from SHARED LIST is equal to the key TN or MLHG/TERM on this form, the NI SAR LIST entries must not be specified.

Secondary MLHG/TERMs cannot make entries to the NI SAR LIST.

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If TYPE AND ORDER or QTY is entered, both must be entered.

All known values of TYPE AND ORDER must be unique.

Entry on the NI SAR LIST must not be made when TN, MLHG and TERM NBR are entered.

When a TN is assigned via the SHARED LIST on a SHTN form that has one or more NI SAR LIST entries, the TN must be defined (as CKT TN) on a DSLUSR form. In addition, the DSLUSR form EKTS field must have an entry, and the following must be true:

- When the EKTS entry is "BASIC", if an NI SAR LIST entry is made, only one entry is permitted and that one entry must have an NI SAR LIST QTY equal to 1.
- When the EKTS entry is "CACH", the sum of the values entered in the NI SAR LIST QTY fields must not exceed the entry in the NBR field in row 1 of the SHTN form SHARED LIST.

3.32 QTY

Description: The QTY field is used to specify the quantity of subaddresses to be reserved for the type of subaddress designated for the secondary-only TN. Secondary-only TN's do not have a terminal on which the TN is primary, so the number of subaddresses allowed to be reserved is determined by the terminal on which the secondary-only TN appears the most times (i.e. for the most call appearances). Therefore, the total number of subaddresses reserved for the secondary-only TN must not exceed the highest value specified in the CA QTY field on the DSLUSR form.

Software Release: 5E11 and later.
Valid Entries: 1 - 16

```
SCREEN 1 OF 6                    5ESS Switch
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM

(*)1. TN   2201000          (*)3. TERM NBR _____     OE
(*)2. MLHG _____               4. ADR TIME ___
                               8. SHARED LIST
                         TERM   CALL          SP      AU     CALL    ADR   EPO
 ROW    TN       MLHG    NBR    APP    NBR    DNA     DNA    EXCL    PAT   ON
  1 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  2 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  3 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  4 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  5 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  6 ____________ _____  _____  ____   __     ____    ____    _      ____   _
  7 ____________ _____  _____  ____   __     ____    ____    _      ____   _
```

```
SCREEN 2 OF 6                    5ESS Switch
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM
```

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ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAT	EPO ON
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										

SCREEN 3 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAR	EPO ON
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

SCREEN 4 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAT	EPO ON
28										
29										
30										
31										
32										

SCREEN 5 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

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```
                                SECONDARY ONLY
  50. BRCS _                         BAUTO              51. E911 PSAP _
                              TELEPHONE NUMBER (TN)
  52. SAR NUM          __          60. DNYBV         _
# 53. SAR ORIG         N           61. SUST          _
# 54. SAR TERM         N         # 62. INWATS        N
# 55. INCOMING         N           63. ICP           _
# 56. INTERCOM         N         # 64. TRC           N
# 57. ORIG CALL WAIT   N         # 65. BUSY MONITOR  N
# 58. PP               N           66. ATT MLHG      ____
  59. BILL TN          ___________ 67. RBV TGN       ____
                                   68. PORTED        N
                                   69. NON COND TRIG N
```

```
SCREEN 6 OF 6                    5ESS Switch                 _
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM

                                   SECONDARY ONLY
  TELEPHONE NUMBER (TN)     TELEPHONE NUMBER (TN)              MLHG TERM
70. SERHLN  ___________     75. NI SAR LIST (SARLIST)     78. NON-HUNT TN _
    BCK LNK ___             ROW  TYPE AND ORDER  QTY      79. MMB SUBGP   ___
                             1   _____          __        80. RND SUBGP   ___
    MONITORED TN _           2   _____          __
73. CONTEXT ID   N           3   _____          __            CHANGE FIELDS
74. RMK ___________________                                   CHNG TN
                                                              CHNG MLHG
                                                              CHNG TERM NBR

                                                              NEW TN
```

Figure 1 SAMPLE SHTN FORM 5E12 - 5E13 SOFTWARE RELEASES

```
SCREEN 1 OF 6                    5ESS Switch
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM

(*)1. TN   2200000          (*)3. TERM NBR _____     OE
(*)2. MLHG _____               4. ADR TIME ___
                               8. SHARED LIST
                      TERM   CALL          SP      AU     CALL    ADR   EPO
 ROW    TN       MLHG  NBR    APP    NBR    DNA     DNA    EXCL    PAT   ON
  1 ___________ _____ _____  ___    __     ___     ___     _      ___    _
  2 ___________ _____ _____  ___    __     ___     ___     _      ___    _
  3 ___________ _____ _____  ___    __     ___     ___     _      ___    _
  4 ___________ _____ _____  ___    __     ___     ___     _      ___    _
  5 ___________ _____ _____  ___    __     ___     ___     _      ___    _
  6 ___________ _____ _____  ___    __     ___     ___     _      ___    _
```

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7								_		_

SCREEN 2 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAT	EPO ON
8								_		_
9								_		_
10								_		_
11								_		_
12								_		_
13								_		_
14								_		_
15								_		_
16								_		_
17								_		_

SCREEN 3 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAR	EPO ON
18								_		_
19								_		_
20								_		_
21								_		_
22								_		_
23								_		_
24								_		_
25								_		_
26								_		_
27								_		_

SCREEN 4 OF 6 5ESS Switch
shtn OFFICE DATA ADMINISTRATION
(5902-1/2/3) PRIMARY OR SECONDARY ONLY KEY SYSTEM

ROW	TN	MLHG	TERM NBR	CALL APP	NBR	SP DNA	AU DNA	CALL EXCL	ADR PAT	EPO ON
28								_		_
29								_		_
30								_		_
31								_		_
32								_		_

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```
SCREEN 5 OF 6                    5ESS Switch
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM

                                  SECONDARY ONLY
  50. BRCS _                           BAUTO              51. E911 PSAP _
                               TELEPHONE NUMBER (TN)
  52. SAR NUM          __            60. DNYBV          _
# 53. SAR ORIG         N             61. SUST           _
# 54. SAR TERM         N           # 62. INWATS         N
# 55. INCOMING         N             63. ICP            _
# 56. INTERCOM         N           # 64. TRC            N
# 57. ORIG CALL WAIT   N           # 65. BUSY MONITOR   N
# 58. PP               N             66. ATT MLHG       ____
  59. BILL TN          __________    67. RBV TGN        ____
                                     68. PORTED         N
                                     69. NON COND TRIG  N
```

```
SCREEN 6 OF 6                    5ESS Switch              _
shtn                        OFFICE DATA ADMINISTRATION
(5902-1/2/3)           PRIMARY OR SECONDARY ONLY KEY SYSTEM

                                  SECONDARY ONLY
  TELEPHONE NUMBER (TN)     TELEPHONE NUMBER (TN)              MLHG TERM
70. SERHLN  __________      75. NI SAR LIST (SARLIST)      78. NON-HUNT TN _
    BCK LNK ___             ROW  TYPE AND ORDER  QTY       79. MMB SUBGP   ___
                             1   _____          __         80. RND SUBGP   ___
    MONITORED TN _           2   _____          __
73. CONTEXT ID   NATIVE      3   _____          __             CHANGE FIELDS
74. RMK ___________________                                    CHNG TN
                                                               CHNG MLHG
                                                               CHNG TERM NBR

                                                               NEW TN
```

Figure 2 SAMPLE SHTN FORM 5E14 AND LATER SOFTWARE RELEASES

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SEC. 1D: 5903 RECORD
INCOMING CALL IDENTIFICATION PARAMETER FORM - ICIPF

1. GENERAL

The 5903 Record is available with 5E4(2) and later Software Releases. This record is used to assign ICI (Incoming Call Identification) parameters to ISDN Attendant Multi-Line Hunt Groups and Terminal Groups.

1.1 ISDN Attendant Hunt Groups

ISAT (ISDN Attendant) hunt groups use ICIs to determine the types of calls served by each attendant. The ICIs assigned on this form define which ICIs the Multi-Line Hunt Group serves and the ICIs assigned on the DSLUSR form define which ICIs the individual member (Multi-Line Hunt Group terminal number) serves.

1.2 Queuing

If queuing is provided for the ISAT Multi-Line Hunt Group, the ICIs and priorities assigned to them are used to determine how calls will be removed from the queue. For more information on ISDN Attendant Hunting and Queuing, please refer to the feature sections in Division 2.

1.3 TGID

This form is also used to assign ICIs to a TGID (Terminal Group Identification) number. ICIs assigned to a TGID are used with the display feature to identify the type of incoming call to an ISDN terminal. For example, if the ICI "TIE1" is assigned to a particular trunk group that belongs to TGID 10, it will be displayed to ISDN terminals in this group that have an appropriate display feature whenever they receive a call over this trunk group.

The total combination of all ICIs assigned (HUNTING, PREC, FX, TIE and CNET) to any given group in the following fields must not exceed sixteen.

A maximum of 16 ICI's may be assigned on the ICIPF form, i.e., the total combination of all ICIs assigned (HUNTING, PREC, FX, TIE and CNET) to any given group in the following fields must not exceed 16.

1.4 Recent Change View

The corresponding Recent Change view for this form is 3.43.

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 * GRP TYP

Description: Enter the Group Type.

Required Field.

Valid GRP TYP Entries

Entry	Definition
HUNT	Multi-Line Hunt Group

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TGSR	Terminal Group ID

Data Rules:

HUNT - For 5E9(2) and later , if GRP TYP is "HUNT":

- and FTS PRIO is entered then FTS TGN must also be entered.
- and one or more of the HUNTING ICI PRIO, PREC ICI PRIO, FX TRK GRPS PRIO, TIE TRK GRPS PRIO, CNET TRK CRP PRIO, or FTS TRK GRP PRIO fields have been entered, then the corresponding MLHG form (5110 Record) must have an entry for QFEATURE.
- and the values entered for FX TRK GRPS, TIE TRK GRPS, CNET TRK, or FTS TRK GRP are not assigned to a CKT MLHG or CKT TERM field on the corresponding DSLUSR forms, then each must be assigned to the ICI's on at least one DSLUSR form where ICIPF GRP NBR matches DSLUSR CKT MLHG.

TGSR - If GRP TYP is "TGSR", then PRIO must not be entered for the following TRK GRPs:
FX
TIE
CNET
FTS

2.3 * GRP NBR

Description: Enter the Multi-Line Hunt Group Number or Terminal Group ID.

Required Field.
Valid Entries:
For MLHGs:
5E14 and earlier: 1 - 2000
5E15 and later: 1 - 8191

For Terminal Groups: 1 - 65535

Data Rules:

If GRP TYP is "HUNT", GRP NUM must be less than 2001 and the group number must be defined on the MLHG form with a hunting feature (from the MLHGFD form) which has a hunt type of "ISAT".

If the group type is TGSR, the valid range is 1-65535 and the group number must be defined on the TGSRMPA or TGSRLPA form.

HUNTING ICI

The following fields (Section 2.4 - Section 2.5) define the Hunting ICIs. Up to sixteen Hunting ICIs may be assigned on an ICIPF form. A priority must be assigned along with each ICI defined. The group type must be "HUNT" to allow Hunting ICI entries.

2.4 ICI

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Description: Enter the Hunting ICI.

Valid ICI Entries

Entry	Definition
CFBL	calls that have been call forwarded via a call forward busy line feature.
CFDA	Calls that have been call forwarded via a call forward don't answer feature.
CFOH	Calls that have been forwarded via a call forward don't answer feature.
CFV	Calls that have been call forwarded via a call forward variable feature.
DCL	Identifies a call originating from manual (no-dial) line.
EMER	Identifies a call where the user dialed the attendant using a prespecified IDP (Individualized Dialing Plan) code which was defined as an emergency code (has an ACTION of "EMER"). When the EMER ICI is assigned, it must also be assigned to all terminals of the Multi-Line Hunt Group on the DSLUSR form.
FTSICN	Software Release: 5E9(2) and later. FTS-2000 trunk to CENTREX Network. An incoming call is terminating in a CENTREX Network from a trunk group marked as an FTS trunk group.
FXICN	Software Release: 5E9(2) and later. FX trunk to CENTREX Network. An incoming call is terminating in a CENTREX Network from a trunk group marked as an FX trunk group.
ICPT	Call is intercepted and redirected to the attendant. This may ICPT
LDNx	Call arrived on (LDN1 - LDN8) one of the eight sub-groups (x = 1 to 8). These ICIs are used for calls arriving at a Multi-Line Hunt Group which have no other ICI. LDN (Listed Directory Number) ISAT (ISDN Attendant) Multi-Line Hunt Groups may have up to eight sub-group TNs (defined on the MLHG form). LDN ICIs have a one-to-one relationship to SUBTN fields one through eight on the MLHG form; therefore, for each LDN ICI defined here, there must be a corresponding SUBTN entry on the MLHG form. If LDN ICIs are assigned, WAT ICIs cannot also be assigned (you cannot mix LDN and WAT ICIs).
QUE	Software Release: 5E6 and later. Calls queued to individual hunted TNs.
RBQ	Calls that have terminated after the ring back queuing feature was used to camp on to a busy trunk group.
RLT	Release Link Services associated with Centralized Attendant Services.
TIEICN	Software Release 5E9(2) and later. TIE trunk to CENTREX Network. An incoming call is terminating in a CENTREX Network from a trunk group marked as a TIE trunk group.
WATx	(WAT1 - WAT5) are used for calls arriving at the ISAT group as INWATS calls. The WATS ICIs have a one-to-one relationship with SUBTN fields one through five on the MLHG form; therefore, for each WAT ICI defined here, there must be a corresponding SUBTN entry on the MLHG form. ISAT INWATS Multi-Line Hunt Groups can have no more than five subgroup TNs.

Data Rules:

If a Precedence and Preemption ICI is entered in the PREC ICI list, then only "EMER", "QUE" and either "LDN" or "WAT" can be entered as HUNTING ICIs.

If one or more "QUE" ICIs are entered, then GRP NBR must be defined on an MLHG form (5110 Record) with Q INDI HNT TNS set to "Y".

2.5 PRIO

Description: Enter a priority for the Hunting ICI, where 1 is the highest priority and 8 is the lowest. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner are served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI.
Valid Entries: 1 - 8

PREC ICI

The following fields (Section 2.6 - Section 2.7) define the Precedence and Preemption ICIs. Up to six Precedence and Preemption ICIs may be assigned per group. The GRP TYP must be "TGSR" to allow

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PREC ICI entries.

2.6 ICI

Description: Enter the Precedence and Preemption ICI.

Valid ICI Entries	
Entry	**Definition**
PPEXEC	The precedence "Executive" is used on this call.
PPFLSH	The precedence "Flash" is used on this call.
PPFOVR	The precedence "Flash Override" is used on this call.
PPIMMD	The precedence "Immediate" is used on this call.
PPPRIO	The precedence "Priority" is used on this call.
PPROUT	The precedence "Routine" is used on this call.

2.7 PRIO

Description: Enter a priority for the Precedence ICI, where 1 the highest priority and 8 the lowest. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner are served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI.
Valid Entries: 1 - 8

FX TRK GRPS

The following fields (Section 2.8 - Section 2.9) define the Foreign Exchange Trunk Group ICIs. Up to eight Foreign Exchange Trunk Group ICIs (FX1 - FX8) may be assigned per group. These ICIs are used for calls that have arrived from a trunk group which is recognized as an FX trunk group.

If a TGN is entered for FX TRK GRPS, TIE TRK GRPS, or CNET TRK GRPS, then it must be assigned to a CKT MLHG/CKT TERM on the corresponding DSLUSR form. Each of the FX TRK GRPS , TIE TRK GRPS or CNET TRK GRPS with GRP TYP of "HUNT" on an ICIPF form must be assigned to the ICIs on at least one DSLUSR form where ICIPF GRP NBR matches DSLUSR CKT MLHG.

2.8 TGN

Description: Enter the Trunk Group Number of the foreign exchange trunk group.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

If TGN is entered, it must be defined on a TKGRP form (5202 Record).

2.9 PRIO

Description: Enter a priority for the Foreign Exchange Trunk Group ICI, where 1 is the highest priority and 8 the lowest. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner are served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI.
Valid Entries: 1 - 8

TIE TRK GRPS

The following fields (Section 2.10 - Section 2.11) define the Tie Trunk Group ICIs. Up to eight Tie Trunk

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Group ICIs (TIE1 - TIE8) may be assigned per group. These ICIs are used for calls that have arrived from a trunk group recognized as a TIE trunk group.

If a TGN is entered for FX TRK GRPS, TIE TRK GRPS, or CNET TRK GRPS, then it must be assigned to a CKT MLHG/CKT TERM on the corresponding DSLUSR form. Each of the FX TRK GRPS , TIE TRK GRPS or CNET TRK GRPS with GRP TYP of "HUNT" on an ICIPF form must be assigned to the ICIs on at least one DSLUSR form where ICIPF GRP NBR matches DSLUSR CKT MLHG.

2.10 TGN

Description: Enter the Trunk Group Number of the TIE Trunk Group.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The trunk group entered here must be defined on the TKGRP form (5202 Record).

2.11 PRIO

Description: Enter a priority for the TIE Trunk Group ICI, where 1 is the highest priority and 8 the lowest. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner are served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI.
Valid Entries: 1 - 8

CNET TRK GRP

The following fields (Section 2.12 - Section 2.13) define the CNET Trunk Group ICI. A single CNET Trunk Group ICI can be assigned per group. These ICIs are used for calls that have arrived from a trunk group designated as a CENTREX Network Trunk Group.

If a TGN is entered for FX TRK GRPS, TIE TRK GRPS, or CNET TRK GRPS, then it must be assigned to a CKT MLHG/CKT TERM on the corresponding DSLUSR form. Each of the FX TRK GRPS , TIE TRK GRPS or CNET TRK GRPS with GRP TYP of "HUNT" on an ICIPF form must be assigned to the ICIs on at least one DSLUSR form where ICIPF GRP NBR matches DSLUSR CKT MLHG.

2.12 TGN

Description: Enter the Trunk Group Number of the CNET Trunk Group.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The trunk group entered here must be defined on the TKGRP form (5202 Record).

2.13 PRIO

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Description: Enter a priority for the CNET Trunk Group ICI, where 1 is the highest priority and 8 the lowest. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner are served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI.
Valid Entries: 1 - 8

FTS TRK GRP

The following fields (Section 2.14 - Section 2.15) define a Federal Telecommunications System 2000 Trunk Group composite structure consisting of TGN and PRIO. These ICIs are used for calls that have arrived from a trunk group designated as an FTS-2000 trunk group. These fields are used by the CENTREX Network secured features. For more information on the CENTREX Network features, see Division 2, Sections 4A181, 4A182, and 4A183.

2.14 TGN

Description: Enter the single FTS-2000 trunk group ICI to the specified trunk group.

Software Release: 5E9(2) and later
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The trunk group entered here must be defined on the TKGRP form (5202 Record).

2.15 PRIO

Description: Enter the priority of the FTS-2000 Trunk Group ICI. Calls to an ISDN Attendant group that cannot be terminated to an available attendant who serves the ICI may be placed on a queue. Calls that are queued in this manner will be served based on their priority, length of time in the queue and availability of an attendant serving the particular ICI. A priority of 1 represents the highest priority.

Software Release: 5E9(2) and later
Valid Entries: 1 - 8

```
SCREEN 1 OF 2                    5ESS Switch
icipf                    OFFICE DATA ADMINISTRATION
(5903)              INCOMING CALL IDENTIFICATION PARAMETERS


*1. GRP TYP HUNT                *2. GRP NBR 00001

         3. HUNTING ICI                  10. PREC ICI
       ICI  PRIO       ICI  PRIO             ICI   PRIO
  1.  _____  _     9. _____  _          1. _______  _
  2.  _____  _    10. _____  _          2. _______  _
  3.  _____  _    11. _____  _          3. _______  _
  4.  _____  _    12. _____  _          4. _______  _
```

```
  5.  _____  _    13. _____  _          5. _______  _
  6.  _____  _    14. _____  _          6. _______  _
  7.  _____  _    15. _____  _
  8.  _____  _    16. _____  _
```

```
SCREEN 2 OF 2                    5ESS Switch
icipf                      OFFICE DATA ADMINISTRATION
(5903)               INCOMING CALL IDENTIFICATION PARAMETERS

     13. FX TRK GRPS          16. TIE TRK GRPS           CNET TRK GRP
      ICI TGN  PRIO            ICI  TGN  PRIO          ICI  TGN  PRIO
   1. FX1 _____  _          1. TIE1 _____  _       19. CNET _____  _
   2. FX2 _____  _          2. TIE2 _____  _
   3. FX3 _____  _          3. TIE3 _____  _
   4. FX4 _____  _          4. TIE4 _____  _
   5. FX5 _____  _          5. TIE5 _____  _
   6. FX6 _____  _          6. TIE6 _____  _
   7. FX7 _____  _          7. TIE7 _____  _
   8. FX8 _____  _          8. TIE8 _____  _
```

Figure 1 SAMPLE ICIPF FORM 5E6 - 5E9(1) SOFTWARE RELEASES

```
SCREEN 1 OF 2                    5ESS Switch
icipf                      OFFICE DATA ADMINISTRATION
(5903)               INCOMING CALL IDENTIFICATION PARAMETERS


*1. GRP TYP HUNT                *2. GRP NBR 00001

        3. HUNTING ICI                 10. PREC ICI
     ICI   PRIO      ICI   PRIO           ICI   PRIO
  1. _______  _    9. _______  _        1. _______  _
  2. _______  _   10. _______  _        2. _______  _
  3. _______  _   11. _______  _        3. _______  _
  4. _______  _   12. _______  _        4. _______  _
  5. _______  _   13. _______  _        5. _______  _
  6. _______  _   14. _______  _        6. _______  _
  7. _______  _   15. _______  _
  8. _______  _   16. _______  _
```

```
SCREEN 2 OF 2                    5ESS Switch
icipf                      OFFICE DATA ADMINISTRATION
(5903)               INCOMING CALL IDENTIFICATION PARAMETERS

     13. FX TRK GRPS          16. TIE TRK GRPS           CNET TRK GRP
      ICI TGN  PRIO            ICI  TGN  PRIO          ICI  TGN  PRIO
   1. FX1 _____  _          1. TIE1 _____  _       19. CNET _____  _
```

```
2. FX2 _____  _          2. TIE2 _____  _
3. FX3 _____  _          3. TIE3 _____  _            FTS TRK GRP
4. FX4 _____  _          4. TIE4 _____  _          ICI  TGN  PRIO
5. FX5 _____  _          5. TIE5 _____  _      22. FTS  _____  _
6. FX6 _____  _          6. TIE6 _____  _
7. FX7 _____  _          7. TIE7 _____  _
8. FX8 _____  _          8. TIE8 _____  _
```

Figure 2 SAMPLE ICIPF FORM 5E9(2) AND LATER SOFTWARE RELEASES

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SEC. 1E: 5904 RECORD
DSL QUEUE MONITOR FORM - DSLQMON

1. GENERAL

The 5904 Record lists the MLHGs (Multi-Line Hunt Groups) that are to be monitored by a DSL monitor for queue status. A DSL queue monitor is any ISDN terminal that can request or display MLHG queue status. This form was added with the Circuit-Switched Data Queuing feature available with 5E6 and later Software Releases. (Refer to the feature description for CSD Queuing in Division 2, Section 1BB for further information.)

MLHG queues are monitored via a QSFB (Queue Status Feature Button) and the terminal display on a queue monitor console. Lamps on the console are turned on and off automatically to show the number of calls queued. The queue monitor console may or may not be an ISAT (ISDN Attendant) console. Also, the queue monitor console does not have to be a member of an MLHG.

The queue display status is intended for use on an ISDN terminal with a 40 character or more display. If the terminal display is less than 40 characters, the queue status information may be truncated. This feature can also be assigned to a terminal without display capabilities.

The queue monitor console contains a separate QSFB (Queue Status Feature Button) for each MLHG that it monitors. The QSFB is used to request the display for a particular MLHG queue. The monitor has from one to eight QSFBs. Each QSFB is always associated with a QTWL (Queue Threshold Warning Lamp). The value for QTWL is defined in the QMON THRESHOLD field on either the QUFD (5617-1/2 Record) or the QUGPA (5617-3/4 Record) form. When the number of calls in the queue is greater than the threshold warning value, the QTWLs on all consoles monitoring this particular MLHG are turned on. Each QSFB is also associated with an action defined on the CFGGRP form (5964 Record). These actions are LQxDISP (where x is from 1 to 8) and are associated with QSFBx respectively.

Up to eight MLHGs (MLHG1 through MLHG8) to be monitored can be entered on this form. Monitored MLHGs can be analog or ISDN, voice or CSD. ISAT MLHGs cannot be monitored. Each MLHG can be monitored by three separate queue monitor consoles.

Either the TN field or the MLHG/TERM NBR fields must be entered. Both TN and MLHG/TERM NBR cannot be entered. For each DSLQMON form with TN or MLHG/TERM NBR entered, there must be a corresponding DSLUSR form (5908 Record) with known values for CONFIG GRP and TERM TYPE.

The queue monitor consoles defined on this form must not exceed the number of consoles allowed per office (indicated by the MAX MON field on the ISDN OPT form (5941 Record)).

1.1 Recent Change View

The corresponding Recent Change view for this form is 23.17.

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 (*) TN

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Description: Enter the telephone number of the DSLQMON (if it has one).
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:

The first three digits of the TN must be defined on the NOC form.

When this field is entered, there must be a corresponding CKT TN defined on the DSLUSR form (5908 Record).

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

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the DSLQMON 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 (*) 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:

This field must be defined on the MLHG form (5110 Record). When this field is entered, there must be a corresponding CKT MLHG defined on the DSLUSR form (5908 Record).

2.4 (*) TERM NBR

Description: Enter the MLHG Terminal Number.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals only)

Data Rules:

When this field is entered, there must be a corresponding CKT TERM defined on the DSLUSR form (5908 Record).

2.5 MONITORED MLHGS

Description: Enter from 1 to 8 unique MLHGs that can be monitored by the console defined on this form.
Valid Entries: For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The MLHGs entered in this list cannot be monitored by more than three consoles.

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Each MLHG entered in the list must be defined on the MLHG form (5110-1 Record) with QFEATURE entered. Also, the associated MLHGFD form (5604 Record) must not have "ISAT" entered in the HUNT TYPE field.

```
dslqmon                          5ESS Switch          _
(5904)                     OFFICE DATA ADMINISTRATION
                          DSL MONITOR FOR MLHG QUEUES

(*)1. TN         5109876          4. MONITORED MLHGS
(*)2. MLHG       _____
(*)3. TERM NBR   _____              1.  0003
                                    2.  0023
                                    3.  _____
                                    4.  _____
                                    5.  _____
                                    6.  _____
                                    7.  _____
                                    8.  _____
```

Figure 1 SAMPLE DSLQMON FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
dslqmon                           5ESS Switch            _
                           OFFICE DATA ADMINISTRATION
(5904)                     DSL MONITOR FOR MLHG QUEUES

(*)1. TN         ___________    4. MONITORED MLHGS(MLHG_LIST)
(*)2. MLHG       _____          ROW MLHG
(*)3. TERM NBR   _____           1  _____
                                 2  _____
                                 3  _____
                                 4  _____
                                 5  _____
                                 6  _____
                                 7  _____
                                 8  _____
```

Figure 2 SAMPLE DSLQMON FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 1F: 5905 RECORD
ODB ISLU(2) IDCU TS ALLOCATION - ODBTS

1. GENERAL

The 5905 Record is applicable with 5E5 and later Software Releases. This form is used to reserve DPIDB (Directly connected Peripheral Interface Data Bus) time slots for DSL (Digital Subscriber Line) users with the ODB (On-demand B-channel Packet Switching) feature. The time slot allocation is provided on a per SM (Switching Module) and unit type basis.

A DSL user is assigned the ODB feature when an ODB TN is entered on the DSLUSR form (5908 Record). However, the reserved time slots are not initially allocated to the user. Instead, the time slots become part of a DPIDB time slot "pool" to be accessed later by a DSL user with the ODB feature on the same SM and unit.

Note that unit types defined on this form must be defined on the respective unit form. See the UNIT TYPE field for appropriate assignments.

1.1 Recent Change View

The Recent Change View for this form is 23.13.

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

Data Rules:

If an ODB ISCN is entered on the DSLUSR form, the SM entered on this form must equal the first three digits of the OE (Office Equipment) number entered on the DSLUSR form.

The SM number entered on this form must be defined on the EQIM form (5700 Record) with EQSTATUS set to "O" (operational).

2.3 * UNIT TYPE

Description: Enter the unit type. For 5E5 - 5E7, this field was called ISLU.

Required Field.

Valid UNIT TYPE Entries

Entry	Description
AIU or A	Software Release: 5E12 and later. Access Interface Unit ISDN U-Interface.
IDCU or ID	Software Release: 5E8 and later Integrated Digital Carrier Unit.

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ISLU or IS	Software Release: 5E5 and later Integrated Services Line Unit.
ISLU2 or ISL	Software Release: 5E10 and later Integrated Services Line Unit 2.

Data Rules:

AIU ISDN:
For 5E12 and later, when UNIT TYPE is "AIU", SM, UNIT, DPIDB and PSU SHELF must be defined on an EQAIU form (5745-1/2 Record) as SM, AIU, TSGRP NO, and PIDB/PSU SHLF, respectively, with a PIDB TYPE of "PSU" and an AIU TYPE of "AIU" .

IDCU:
For 5E8 and later, when UNIT TYPE is "IDCU" then SM, UNIT, DPIDB and PSU SHELF must be defined on an EQIDCU form as SM, IDCU, PIDB NO. and DI/PSU SHLF, respectively, with a PIDB TYPE of "PSU".

ISLU:
For 5E10 and later, when SM, UNIT TYPE, UNIT, DPIDB and PSU SHELF(s) are assigned on an ODBTS form and the UNIT TYPE is "ISLU" or "ISLU2" then SM, UNIT, DPIDB and PSU SHELF must be defined on an EQISLU form as SWITCHING MODULE, ISLU NUMBER, PIDB NO. and PSU SHELF, respectively, with a PIDB TYPE of "PSU".

2.4 * UNIT

Description: Enter the unit number.

Required Field.
Valid Entries:
For 5E9(2) and earlier: 0 - 7 for ISLU/2 or IDCU
For 5E10 - 5E11: 0 - 42 for ISLU/2 or IDCU
For 5E12 and later:
0 - 7 for ISLU/2
0 - 42 for IDCU
0 - 104 for AIU

ODB TS LIST

The ODB TS LIST consists of three entries: the MIN TS/DPIDB, DPIDB, PSU SHELF. The MIN TS/DPIDB, DPIDB and PSU SHELF fields must all have an entry or must all be left blank.

Values for the MAX TS/SHELF and USRS/SHELF fields are used only for verification purposes by Recent Change. The MAX TS/SHELF field shows the maximum number of time slots assigned to a PSU Shelf for ODB use, and the USRS/SHELF field shows the number of ODB users per PSU Shelf.

2.5 MIN TS/DPIDB

Description: Enter the minimum number of timeslots to be assigned to a DPIDB for ODB use.

There must be at least one MIN TS/DPIDB value entered in order to reserve time slots for the PSU SHELF defined on this form if an ODB ISCN number is entered on the DSLUSR form.

A value of 0 means that all available time slots for the corresponding DPIDB can be allocated for DSL B and/or D channels on the AMLBDSL (5447 Record), DSL (5907 Record), DSLAP (5963 Record) and/or

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OSPSDSL (5411 Record) forms. A non-zero value reserves time slots for ODB use only. Also, the total number of allocated time slots (including those reserved for ODB) cannot exceed the total amount of available time slots (32) per DPIDB.
Valid Entries: 0 - 32

2.6 DPIDB

Description: Enter the DPIDB number.

All DPIDB entries must be unique. The DPIDB connects the ISLU/IDCU/AIU to the PSU.
Valid Entries:

0 - 11, or blank (for ISLU)
5E8 - 5E11: 12 - 22, or blank (for IDCU)
5E12 and later: 1 - 5 for AIU, 0 - 11 for ISLU,
or 12 - 22 for IDCU

Data Rules:

For UNIT TYPE of "AIU", the total number of timeslots, per DPIDB, cannot be greater than 32.ODA error message "ISDN(287a/b/c)" is generated whenever more than 32 timeslots have been assigned/reserved. ISDN(287a) details the overloaded DPIDBs and ISDN(287b) lists all the nailed up timeslots that have been manually or automatically assigned. ISDN(287c) provides all the timeslots reserved on the ODBTS form. Timeslots reserved on the ODBTS form will need to be re-assigned to correct the DPIDBs in error. ISDN(287a/b/c) is a companion error message to "ISDN(288a/b/c)" which is generated when D and/or B Channel TIMESLOTSs cannot be assigned by ODA because of a lack of DPIDB timeslots (DPIDBs are assigned on the EQAIU form with a PIDB TYPE of "PSU").

2.7 PSU SHELF

Description: Enter the Packet Switch Unit Shelf number.
Valid Entries: 0 - 4

Data Rules:

If an ODB ISCN number is entered on the DSLUSR form, the PSU SHELF number defined on this form must equal the first digit of the ODB ISCN number.

```
SCREEN 1 OF 2                    5ESS Switch
odbts                    OFFICE DATA ADMINISTRATION
(5905)                       ODB TS ALLOCATION

*1. SM        001
*2. UNIT TYPE IDCU
*3. UNIT      0              4. ODB TS LIST

     MIN TS/                        PSU          MAX TS/       USRS/
     DPIDB          DPIDB          SHELF         SHELF         SHELF

  1.  01             11              4
  2.  02             10              3
```

```
  3.  __              __              _
  4.  __              __              _
  5.  __              __              _
  6.  __              __              _
```

```
SCREEN 2 OF 2                    5ESS Switch             _
odbts                       OFFICE DATA ADMINISTRATION
(5905)                          ODB TS ALLOCATION

                                4. ODB TS LIST

     MIN TS/                          PSU          MAX TS/       USRS/
     DPIDB          DPIDB            SHELF         SHELF         SHELF

  7.  __              __              _
  8.  __              __              _
  9.  __              __              _
 10.  __              __              _
 11.  __              __              _
```

Figure 1 SAMPLE ODBTS FORM 5E8 - 5E9(2) SOFTWARE RELEASES

```
SCREEN 1 OF 2                    5ESS Switch
odbts                       OFFICE DATA ADMINISTRATION
(5905)                          ODB TS ALLOCATION

*1. SM         ___
*2.  UNIT TYPE _____
*3. UNIT       __               4. ODB TS LIST

     MIN TS/                          PSU          MAX TS/       USRS/
     DPIDB          DPIDB            SHELF         SHELF         SHELF

  1.  __              __              _
  2.  __              __              _
  3.  __              __              _
  4.  __              __              _
  5.  __              __              _
  6.  __              __              _
```

```
SCREEN 2 OF 2                    5ESS Switch             _
odbts                       OFFICE DATA ADMINISTRATION
(5905)                          ODB TS ALLOCATION

                                4. ODB TS LIST
```

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```
    MIN TS/                          PSU          MAX TS/       USRS/
    DPIDB          DPIDB           SHELF        SHELF         SHELF

 7. __             __               _
 8. __             __               _
 9. __             __               _
10. __             __               _
11. __             __               _
```

Figure 2 SAMPLE ODBTS FORM 5E10 - 5E11 SOFTWARE RELEASES

```
SCREEN 1 OF 2                    5ESS Switch
odbts                     OFFICE DATA ADMINISTRATION
(5905)                  ODB ISLU(2) IDCU TS ALLOCATION

*1. SM         ___
*2. UNIT TYPE  _____
*3. UNIT       ___              4. ODB TS LIST

    MIN TS/                          PSU          MAX TS/       USRS/
    DPIDB          DPIDB           SHELF        SHELF         SHELF

 1. __             __               _
 2. __             __               _
 3. __             __               _
 4. __             __               _
 5. __             __               _
 6. __             __               _
```

```
SCREEN 2 OF 2                    5ESS Switch             _

odbts                     OFFICE DATA ADMINISTRATION
(5905)                  ODB ISLU(2) IDCU TS ALLOCATION

                               4. ODB TS LIST

    MIN TS/                          PSU          MAX TS/       USRS/
    DPIDB          DPIDB           SHELF        SHELF         SHELF

 7. __             __               _
 8. __             __               _
 9. __             __               _
10. __             __               _
11. __             __               _
```

Figure 3 SAMPLE ODBTS FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 1G: 5906 RECORD
ODB ISCN RESERVATION - ODBRES

1. GENERAL

The 5906 ODB ISCN Reservation Record is available with 5E5 and later Software Releases. The ODBRES form is used to reserve ISCNs (Integrated Services Channel Numbers) for DSL (Digital Subscriber Line) users of the ODB (On Demand B-Channel Packet Switching) feature. A DSL user is assigned the ODB feature when an ODB TN is entered on a DSLUSR form (5908 Record) where an ISCN is initially allocated to the ODB user. The ISCNs reserved by this form become part of an ISCN "pool" to be accessed later by RC/V for ODB assignment on the RC view 23.2 and by ACSR (Automatic Customer Station Rearrangement) to assign an ISCN to the ODB user. (See ACSR feature Section Division 2, Section 1AD).

When an ODB user is defined in RC view 23.2 and an ISCN is not entered, this ISCN "pool" will be accessed automatically and an ISCN will be assigned to the user. If the BAND field on the RC view 23.2 is entered, an ISCN with the same BAND on this form will be assigned. Otherwise, an ISCN with a BAND of 0 will be assigned.

The ISCN must be assigned on RC view 23.14 (ODBRES form) before an ISCN can be manually assigned to an ODB user on RC view 23.2.

NOTE: The ISCNs allocated in this pool or assigned to an ODB user must have time-slots reserved between the ISLU (Integrated Services Line Unit), or the IDCU (Integrated Digital Carrier Unit), and PSU shelves (same shelves as the ISCNs assigned on this form) on the ODBTS form (RC view 23.13).

ISCNs do not represent the exact physical location of the hardware in the PSU (Packet Switching Unit); the numbers only define that the hardware exists in the unit. Every defined ISCN must be unique per SM, (ISCNs defined on this form cannot be used on any other form). Also, the first digit of the ISCN defined on this form, which represents the PSU shelf number, and its corresponding SM number must be assigned on an EQPSUPH form (5742 Record) as PSU SHELF and SM respectively. ISCNs are defined on this form as XYYZZZ according to the following format.

ISCN (INTEGRATED SERVICES CHANNEL NUMBER)

Equipment		Format
Shelf	SHELF	X
Channel Group	CHL GRP	YY
Channel	CHL	ZZZ

1.1 Recent Change View

The corresponding Recent Change View for this form is 23.14.

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 * SM

Description: Enter the Switching Module number; each SM contains an ISLU, or an IDCU.

Required Field.

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Valid Entries: 1 - 192

Data Rules:

This SM number must be defined on an EQIM form (5700 Record), and the EQSTATUS field on the EQIM form must equal "O" (Operational).

For 5E9(1) and later, the SM, SHELF, and CHL GRP must be defined in the SM, PSU SHELF, and GRP fields on a PSUGP form (5949 Record) where PH TYPE is set to "PH3".

2.3 * SHELF

Description: Enter the Packet Switching Unit shelf number.

Required Field.
Valid Entries: 0 - 4

Data Rules:

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.

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

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assignments from
PSISM forms,
PSULNK forms, or
TRUNK forms which have a TRKCLS of
"PACKET"
"PKTPIPE"
"SPCHNDLR"
"X75"
"X75P"

Each ISCN entry (defined as the combination SHELF, CHL GRP, and CHL fields) must have the SHELF value assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

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.

2.4 * CHL GRP

Description: Enter the Channel Group number.

Required Field.
Valid Entries: 0 - 15

CHL BAND LIST

Both of the fields (Section 2.5 - Section 2.6) under CHL BAND LIST (CHL and BAND) must have a value entered or they both must be left blank.

2.5 CHL

Description: Enter the PH channel number assigned to the user of the ODB feature.
Valid Entries: 0 - 124, in increments of 4 (0,4,8,...)

Data Rules:

All CHL entries must be unique.

2.6 BAND

Description: Enter the band number. This number indicates the amount of PH (Protocol Handler) usage each user will need. The number is used as a load balancing mechanism to segregate lighter users from heavier users.
Valid Entries: 0 - 15

```
odbres                          5ESS Switch              _
(5906)                   OFFICE DATA ADMINISTRATION
                            ODB ISCN RESERVATION

*1. SM 100          *2. SHELF 4           *3. CHL GRP 00
```

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4. CHL BAND LIST

	CHL	BAND		CHL	BAND		CHL	BAND		CHL	BAND
1.	000	00	9.	____	__	17.	____	__	25.	____	__
2.	004	02	10.	____	__	18.	____	__	26.	____	__
3.	008	04	11.	____	__	19.	____	__	27.	____	__
4.	016	05	12.	____	__	20.	____	__	28.	____	__
5.	024	06	13.	____	__	21.	____	__	29.	____	__
6.	020	08	14.	____	__	22.	____	__	30.	____	__
7.	032	09	15.	____	__	23.	____	__	31.	____	__
8.	036	15	16.	____	__	24.	____	__	32.	____	__

Figure 1 SAMPLE ODBRES FORM 5E5 AND LATER SOFTWARE RELEASES

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SEC. 1H: 5907 RECORD
DIGITAL SUBSCRIBER LINE - DSL

1. GENERAL

The 5907-1/2/3/4/5/6/7 DSL Records are available with 5E5 and later Software Releases.

It is imperative to refer to the Multipoint DSL (Digital Subscriber Line) Feature Description (Division 2, Section 1AA in this document) before entering these Records.

1.1 PURPOSE

The 5907 Record series has two major purposes.

First, it is used to define the attributes of a DSL. A DSL is also referred to as a BRI (Basic Rate Interface). Second, it is used to define the attributes of the B1 and/or B2 channel of the DSL, if either or both of those channels are to be used on a Permanent Packet basis (dedicated to X.25 Packet Switching).

The DSL OE field on the DSL form is the field which associates a DSL with the users of the DSL. The users are defined on DSLUSR forms (5908 Records). The OE field on the DSLUSR form indicates which DSL the user employs. The aforementioned two fields are the only link between a DSL form and a DSLUSR form.

If the ODB TN, ODB MLHG/TERM, CKT TN, or CKT MLHG TN fields on a DSLUSR form are entered, this indicates that one or both B-channels are to be used on a Demand basis. Therefore, a DSL form must be submitted, for the DSL, with the D SERV field set to "SX". If ODB on the DSLUSR form is 1, the B1 SERV or B2 SERV field must be set to "DMD" (Demand); if ODB is 2, B1 SERV and B2 SERV must be "DMD".

Duplicate values are not allowed among the DPKT MLHG field on a DSLUSR form, the ODB MLHG field on a DSLUSR form, the CKT MLHG field on a DSLUSR form, the PPB1 MLHG field on a DSL form, the PPB2 MLHG field on a DSL form, and the MLHG field on an MLHLN form (5111 Record), with the following exceptions:

- a CKT MLHG on a DSLUSR form may duplicate an MLHG on an MLHLN form if the CKT TERM on the DSLUSR form is different from the TERM on the MLHLN form, thus allowing a mixture of digital and analog users in the same MLHG;
- a DPKT MLHG on a DSLUSR form may duplicate an MLHG on an MLHLN form if the DPKT TERM on the DSLUSR form is the same as the TERM on the MLHLN form (as used for a Modem Pool group member);
- PPB1 MLHG and PPB2 MLHG on the DSL form and DPKT MLHG (Non-Modem Pooling) and ODB MLHG on the DSLUSR form and PKT MLHG on the XAT form may be the same. The corresponding TERM entries must be different if their CHL SEL fields are "N". If the corresponding CHL SEL fields are "Y" and the channels are defined for the same user, then the TERM entries must be the same. (CHL SEL is not valid with XAT.)

1.2 CCITT TERMINOLOGY

Fields Section 3.12 - Section 3.15 relate to CCITT terminology.

A brief description of the CCITT recommendation for the X.25 protocol is required before proceeding. Data Terminating Equipment, in CCITT parlance, is equivalent to the CPE (Customer Premises Equipment) device

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connected to the DSL. Data Circuit Equipment is equivalent to a PH (Protocol Handler) on a PSU (Packet Switch Unit) within the 5ESS Switch.

Level 2 of the X.25 protocol is used to describe the linkage between a CPE device and the PH on the 5ESS Switch.

Level 3 of the X.25 protocol is used to describe the linkage between two CPE devices.

1.3 LOGICAL CHANNEL NUMBER

Fields Section 4.1 - Section 4.7 refer to LCNs (Logical Channel Numbers).

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 H PVC LCN field (Highest PVC LCN) indicates the highest numbered LCN that is a PVC. For example, if the H 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 L IN LCN field (Lowest Incoming LCN) and the H IN 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 L 2W LCN field (Lowest Two-Way LCN) and the H 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 L OUT LCN field (Lowest Outgoing LCN) and the H OUT LCN field (Highest Outgoing LCN).

As an example, an ISCN (Integrated Services Channel Number) could define its 127 associated LCNs as follows:

H PVC LCN = 7

(LCNs 1 to 7 are PVCs)

L IN LCN = 8

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H IN LCN = 15

(LCNs 8 to 15 are incoming SVCs)

L 2W LCN = 16
H 2W LCN = 100

(LCNs 16 to 100 are two-way SVCs)

L OUT LCN = 101
H OUT 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 H PVC LCN field or the L IN LCN and H IN LCN field combination or the L 2W LCN and H 2W LCN field combination, or the L OUT LCN and H OUT LCN field combination must be entered. If this is not done, there will not be any LCNs to carry packets.

1.4 CLOSED USER GROUPS

A CUG is a sub-network of CPE devices which can communicate with each other. A CPE device can belong to multiple CUGs. The primary purpose of a CUG is to provide security to its members, since a CUG member cannot communicate with a CPE device which is not in the same CUG. A CPE device which belongs to multiple CUGs may indicate the CUG of choice, in the call request packet or the incoming call packet, for transmitting and receiving packets, respectively. If a CUG is not specified, the Preferential CUG will be selected. Refer to the description of the CUGPX (Closed User Group Preferential Index) field.

A CUG with Outgoing Access allows its member CPE devices 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.

A CUG with Incoming Access allows its member CPE devices to receive virtual calls from a CPE device that does not belong to any CUG (e.g., public network), or from CPE devices that belong to a CUG with Outgoing Access.

1.5 PROVISIONING DIFFERENCES BETWEEN ODA AND RECENT CHANGE

ODA will support the provisioning of DSLs without any users or services (PPBs or default service); for example, in the case of Large Terminal Growth. Recent Change will not support such provisioning, but will support the addition of users/services on DSLs grown by ODA without any services.

Recent Change will also support the following in regard to DSLs grown without users/services:

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- the DSLs may be deleted;
- if brought up in a Recent Change View but not changed, the DSLs will be saved; and
- nothing in the DSL can be changed if users/services are not added.

Recent Change will not allow deletion of all users and services from a DSL already having services.

1.6 LOGICAL LINK CONTROL BLOCKS

Each SM / SHELF / CHL GRP can use a maximum of 384 LLCBs (Logical Link Control Blocks). The following applications define the possible LLCB assignments. These applications cannot use more than 384 LLCBs.

LLCB Assignments

Form	SM SHELF CHL GRP	LLCB Count
AMLBDSL	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 AMLBDSL form where SERVICE CLASS is "XDB" on a corresponding OSPSDSL 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 OSPSDSL form where SERVICE CLASS is "TAOPER" or "DAOPER" and a corresponding AMLBDSL form is defined. Else the count is incremented by 1 for each unique OSPSDSL 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.

1.7 RECENT CHANGE VIEW

The corresponding Recent Change View for this form is 23.2.

2. FORM ENTRIES - 5907-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * DSL OE

Description: This field is comprised of an equipment Type and Number. For the ISLU (Integrated Services Line Unit) or the RISLU (Remote Integrated Services Line Unit), the DSL equipment number is referred to an "LCEN" (Line Card Equipment Number). Available with 5E8 and later, the IDCU (Integrated Digital Carrier Unit) capability is introduced for interface with RT (Remote Terminals). The IDCU equipment number is referred to as an ILEN (IDCU Line Equipment Number) which may be either 8 digits (referred to as a "MEN") or 10 digits (referred to as a "GEN" (see Valid DSL OE Types table below).

IDCU DSLs have the same capabilities as the ISLU DSLs. The functionality defined on the DSL form is the same as the functionality for ISLU, except that IDCU does not support OSPS. For IDCU, the DSL form will only be used by TR303 RTs (Remote Terminal). The RT INTERFACE on the RTERM form (5714 Record) must be "TR303". Other IDCU applications do not support ISDN. The SM and IDCU must be defined on an EQIDCU form (5846 Record) with this SM and IDCU. The RT must be defined on an RTERM form with this SM, a UNIT TYPE of IDCU, a UNIT NUMBER corresponding to the IDCU number and the RT EX (Remote External) number corresponding to the RT number.

Required Field.

Valid DSL OE Type Entries

Entry	Definition
A	Software Release: 5E12 and later. The DSL OE is associated with a 10-digit TR-303 on DNU-S (INEN).
E	Software Release: 5E12 and later. The DSL OE is associated with the AIU-ISDN equipment number (AIUEN).
G	Software Release: 5E8 and later. The DSL OE is associated with a 10-digit ILEN (GEN) for an IDCU RT. This designation accommodates up to 2048 lines.
I	The DSL OE is associated with an 8-digit ISLU or RISLU (LCEN).
K	Software Release: 5E10 and later. The DSL is associated with the ISDN ISLU2 line card equipment number (LCKEN).
X	Software Release: 5E16 and later. The DSL OE (Digital Subscriber Line card Equipment Number (composite line card equipment number consisting of LCENTYPE and LCEN)).

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The OE SIZE is defined on the OFCOPT form (5509 Record). All OE types "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.

If DSL OE is set to "A", the 10-digit INEN consists of the following components:

For 5E16 and later, when DSL OE is "X", SERV TYPE must be "CFS" on the ENETLINK form (5827 Record) for SM of OE.

TR-303 On DNU-S, Type A

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

If DSL OE is set to "E", the 10-digit AIUEN consists of the following components:

ACCESS INTERFACE UNIT, Type E

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Access Interface Unit	AIU	XXX	000-127
Pack	PACK	XX	00-19
Circuit	CKT	XX	00-15

If DSL OE is set to "I", the 8-digit LCEN consists of the following components:

LINE CARD EQUIPMENT NUMBER, Type I

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
(Remote) Integrated Services Line Unit	(R)ISLU	X	0-7
Line Group Card	LGC	XX	00-15
Line Card	LC	XX	00-31

If DSL OE is set to "G", the IDCU Equipment Number consists of:

IDCU Remote Terminal Number, Type G

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	IDCU	X	0-42
Remote Terminal	RT	XX	01-31
Line	LINE	XXXX	0001-2048

If DSL OE is set to "M", the IDCU Equipment Number consists of:

IDCU Remote Terminal Number, Type M

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	IDCU	X	0-42
Remote Terminal	RT	XX	01-31
Line	LINE	XX	01-99

If DSL OE is set to "K", the ISLU2 Equipment Number consists of:

ISLU2, Type K

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	LU	XX	00 - 42
Line Group	LG	XX	00 - 15
Line Board	LBD	X	0 - 7
Line Circuit	LCKT	XX	00 - 07

Data Rules:

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The SM entered must appear in the SWITCHING MODULE field on an EQPSU form (5741 Record). An EQPSU form defines the PSU peripheral to the SM.

The LCEN must be unique and must not appear on another DSL form, an OSPSDSL form (5411 Record), a DSLAP form (5963 Record), or RDTAPORT form. These forms cannot have duplicate Line Cards or Line Boards assigned.

For 5E8 and later:
IDCU (ILEN) DSL OE numbers cannot be duplicated on the LINE, MLHLN, or TRUNK forms.

DSL OE numbers and TRK OE numbers must be mutually exclusive for IDCU equipment on the DSL, LINE, MLHLN, RDTAPORT, and TRUNK forms.

All of the digital subscriber lines on an SM :
IDCU DSLs OE TYPE "G"
ISLU DSLs OE TYPE "I"
ISLU2 DSLs OE TYPE "K"

1. which have identical entries for the first five digits of the OE for OE TYPEs "G" and "K" or first four digits for OE TYPE "I"

2. and which also have the same D RELPIDB and D TIMESLOT entries

3. must additionally have the same

   RT for OE TYPE "G"

   LG for OE TYPE "I"

   LGC for OE TYPE "K"

4. and the same SHELF/CHL GRP defined as the 1-3 digits of the D ISCN entries.

5E9(1) and later:

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

Each SM (Switching Module) can have up to 5 PSU SHELFs (defined by the first digit in the ISCN field). 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 applications: (Note: X represents the number of PIDBs, 0 to 4, provisioned per shelf)

Applications Assigned Timeslots

Form	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

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	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	Software Release: 5E10 and later. Defined by setting TRKCLS equal to "PKTPIPE" on the TKGRP form and defining members on TRUNK forms.
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/MISLINK/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	Software Release: 5E10 and later. 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.

For 5E10 and later, on a PSU2, each Data Interface in a SM can have a maximum of 256 nailed-up time slots.

- The following data rule is not applicable on an SM-2000 processors, since provisioning of PSU nailed-up timeslots is not required on an SM-2000. Each Data Interface in a SM can have a maximum of 256 nailed-up timeslots reserved for the applications listed in the table below. These timeslots can be reserved by entering rows RPTSS0 to RPTSS7 on the EQPSU form. The quantity of timeslots reserved (i.e. the number of entries) must be greater than or equal to the quantity of timeslots assigned for the above applications. Note that a D channel only takes a quarter of a timeslot.

Timeslots Reserved for Applications

Application	Defined on Form(s)
RISLU B Channel	DSL and AMLBDSL
RISLU D Channel	DSL, DSLAP, MISLINK, and OSPSDSL
X.25	XAT
ISM	PSISM
IP	TRKCLS set to "PACKET" on the TKGRP form
X75	TRKCLS set to "X75" on the TKGRP form
X75P	TRKCLS set to "X75P" on the TKGRP form
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
PKTPIPE	TRKCLS set to "PKTPIPE" on TKGRP form
SPCHNDLR	TRKCLS set to "SPCHNDLR" on TKGRP form

- 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 timeslot to have a unique vertical (column) position (i.e., unique time slot value of 0 - 31 on different PIDBs).

Type is "G" or "M":
The "M" and "G" DSL OEs are associated with the OE SIZE on the OFCOPT form. If OE SIZE is 8, DSL OE will be "M"; if OE SIZE is 10, DSL OE will be "G". All IDCU equipment in an office must use the same DSL OE type, either "G" or "M".

OEs for all TR303 RTs, can only be assigned if the TR303 is equipped (RT EQSTAT must be set to "O" or

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"G") on the RTERM form.

Type is "G":
For 5E9(1) and later, if "G" is entered:

- Originating Equipment Numbers cannot be duplicated on DSL, LINE, MLHLN, TRUNK or MISLINK forms for IDCU (Integrated Digital Carrier Unit) equipment. DSL OE(s), NUMBER(s), TRK OE(s) and OE(s) must be mutually exclusive for IDCU equipment on the DSL, LINE, MLHLN, TRUNK and MISLINK forms. The IDCU Originating Equipment Numbers are located:

  — in the DSL OE field on the DSL forms (where DSL OE type is equal to "G");

  — in the NUMBER field on the LINE/MLHLN forms (where OE TYPE is equal to "G");

  — in the TRK OE field on the TRUNK forms (where TRK OE type is equal to "G");

  — in the OE field on the MISLINK forms (where OE type is equal to "G").

- the SM/IDCU/RT values assigned to OE NUMBER[1,7] must correspond to the SM/UNIT NUMBER/RT EX values assigned on an RTERM form. OE ports must be located on equipment identified on an RTERM form where the RT INTERFACE is "TR303".

- have SM/IDCU/RT values assigned to OE NUMBER[1,7] which correspond to the SM/UNIT NUMBER/RT EX values assigned on an RTERM form where RT INTERFACE is "TR303". 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 cannot 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".)

- and the OE is defined on a TR303 remote terminal on the RTERM form, the DS1 entered on the DSL form must correspond with the IFAC entered on the RTERM form in the RT IFAC TERMINATION list with ROW RT TERM equal to the DS1. Also, this IFAC can not equal PROT LINE on this same RTERM form.

- and the corresponding RTERM form has an RT INTERFACE of "TR303" all IDCU DSLs and MISLINKs that have "TR303" remote terminals assigned are prohibited from using "303ZCS" suppression method. Therefore, the SUP MTHD on the RTERM form can not be "303ZC".

If "G" is entered for IDCU equipment on this form with D channel assignments, when packing QTR TS on these forms (up to 4 to a TS) for an SM/IDCU/RT (the first seven digits of the OE),

- the assigned QTR TS and the Channel must be unique across the identical set of forms. Channel is the last three digits of D ISCN.

- the set of D RELPIDB, D TIMESLOT DS1 and DS1 TS must each be identical (i.e., DS1 = DS1, etc.).

  In addition, the first three digits of the ISCN must also be the same on all the DSL forms in the group. If the DSL form D RELPIDB/D TIMESLOT combination is the same on any forms, the DS1/DS1 TS combinations must also be the same across those DSL forms.

For 5E10 and later:

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If OE is type "G":

- then D RELPIDB must be 12 - 22.
- and PPB1 DS1 or PPB1 DS1 TS is entered, both must be entered.
- PPB1 DPIDB must be 12 - 22.
- and PPB2 DS1 or PPB2 DS1 TS is entered, both must be entered.
- PPB2 DPIDB must be 12 - 22.

For manually assigned D RELPIDBs and/or PPB1/PPB2 DPIDBs, with DSL OE originating equipment type of "G":

- each PIDB must have proper Packet Switching Unit shelf assigned with matched PIDB NO. on the EQIDCU form. The PSU shelf, which is specified by the first digit of the D ISCN and/or PPB1/PPB2 ISCN on the DSL forms, must be defined on the EQIDCU form with a PIDB TYPE of "PSU".
- must have a corresponding PIDB NO. with a PIDB TYPE of "PSU" assigned on the EQIDCU form.

Type is "I":
For the "I" type, the LCEN must be defined on an ISLULC form (5942 Record) with an "O" in the EQST field, and a TYPE of "PULC", "ULC", or "TLC". "PULC" and "ULC" are U-cards, and "TLC" is a T-card.

For 5E9(1) and later, an OE type of "I"

- must be defined as an equipped and operational U or T card on the ISLULC input form.
- the ODA automatic time slot assignment algorithm allocates four TS to each SM/ISLU/LGC configuration for each PIDB from the ISLU to the PSU as follows:
- for LGCs (digits 5 & 6 of the Equipment Number) numbered between 0 and 7 the time slots are assigned to odd numbered PSU PIDBs and for
- LGCs numbered between 8 and 15 the time slots are assigned to even numbered PSU PIDBs (PIDBs are assigned on the EQISLU form).
- time slots for DPIDBs, which are assigned and reserved on an ISLU(2), cannot exceed the maximum number of 32 time slots available for the DPIDB. Timeslots (TS) are allocated for DSL D and/or B channels on the following forms:

  AMLBDSL

  DSL (where DSL OE type equals "I" or "K")

  DSLAP

  MISLINK (where OE type equals "I" or "K")

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OSPSDSL forms

Timeslots are allocated either on the form or by the ODA automatic time slot assignment algorithm. Timeslots may also be reserved for On Demand B channel usage on the ODBTS form.

Type is "K":
For 5E9(1) and later, for an OE type of "K"

- must be defined as an equipped and operational U or T Board on the ISLULB input form.
- time slots for DPIDBs, which are assigned and reserved on an ISLU(2), cannot exceed the maximum number of 32 time slots available for the DPIDB. Timeslots (TS) are allocated for DSL D and/or B channels on the following forms:

  AMLBDSL

  DSL (where DSL OE type equals "I" or "K")

  DSLAP

  MISLINK (where OE type equals "I" or "K")

  OSPSDSL forms

  Timeslots are allocated either on the form or by the ODA automatic time slot assignment algorithm. Timeslots may also be reserved for On Demand B channel usage on the ODBTS form.

The ODA automatic time slot assignment algorithm allocates four TS to each SM/ISLU2/LG configuration for each PIDB from the ISLU2 to the PSU as follows:

- for LGs (digits 6 & 7 of the Equipment Number) numbered between 0 and 7 the time slots are assigned to odd numbered PSU PIDBs
- for LGs numbered between 8 and 15 the time slots are assigned to even numbered PSU PIDBs (PIDBs are assigned on the EQISLU form).

For 5E10 and later:
When OE type is "K":

- the assigned D TIMESLOT may not be equal to the LG part of the DSL OE or the LG plus 16.
- DS1 and DS1 TS cannot be entered.
- D RELPIDB must be 2 - 11.

For 5E12 and later:

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When OE type is "A":

When DSL OE is "A", and QTR TS, DS1 or DS1 TS is entered, all must be entered.

When DSL OE is "A", D RELPIDB and D TIMESLOT must not be entered.

When DSL OE is "A", and PPB1 DS1 or PPB1 DS1 TS is entered, both must not be entered.

When DSL OE is "A", and PPB2 DS1 or PPB2 DS1 TS is entered, both must not be entered.

When DSL OE is "A", both PPB1 DPIDB and PPB1 TS must not be entered.

When DSL OE is "A", both PPB2 DPIDB and PPB2 TS must not be entered.

When DSL OE is not "A", and DS1 or DS1 TS is entered, then D RELPIDB, D TIMESLOT, QTR TS, DS1 and DS1 TS must be entered.

When DSL OE is not "A", and D RELPIDB, D TIMESLOT or QTR TS is entered, all must be entered.

When DSL OE is not "A", and PPB1 DPIDB or PPB1 TS is entered, both must be entered.

When DSL OE is not "A", and PPB2 DPIDB or PPB2 TS is entered, both must be entered.

When DSL OE is not "A", and PPB1 DS1 or PPB1 DS1 TS is entered, then PPB1 DPIDB, PPB1 TS, PPB1 DS1 and PPB1 DS1 TS must be entered.

When DSL OE is not "A", and PPB2 DS1 or PPB2 DS1 TS is entered, then PPB21 DPIDB, PPB2 TS, PPB21 DS1 and PPB2 DS1 TS must be entered.

When OE type is "E":

Each SM/AIU DPIDB time slot may be assigned only once (i.e., D and/or B Channels cannot be assigned to conflicting DPIDB time slots or quarter time slots due to manual (vs ODA) time slot assignments). Note that D channels are allocated to quarter time slots, therefore, up to four unique assignments can be made before a time slot is considered full. (Time slot conflicts are generated by system message "ISDN288a/b/c" which will assist in resolving conflicts.)

- DS1 and DS1 TS cannot be entered.
- PPB1 DS1 and PPB1 DS1 TS cannot be entered.
- PPB2 DS1 and PPB2 DS1 TS cannot be entered.
- D RELPIDB must be 1 - 5.
- PPB1 DPIDB must be 1 - 5.
- PPB2 DPIDB must be 1 - 5.
- AIU OEs must be defined as operational on the EQAIUP form as SM/AIU/APPL PACK NUM with TYPE set to "AIULP" or "AIURPLP".

2.3 # D ISCN

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Description: Enter the D-channel ISCN, on the PSU, which is conjoined to the DSL.

The DSL is connected, via a PIDB (Peripheral Interface Data Bus) to a PSU.

Required Field.
Valid Entries: The 6-digit ISCN consists of the following components:

INTEGRATED SERVICES CHANNEL NUMBER			
Equipment		**Format**	**Valid Entries**
Shelf	—	X	0-4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	000-127

Data Rules:

For the shelf, enter the PSU PH shelf number. The SHELF must correspond to a PSU SHELF field on an EQPSU form, where the value in the SWITCHING MODULE field is the SM portion (first three digits) of the DSL OE, which has a SHLF SIDE 0/1 with EQST set to "O".

For CHL GRP, enter the PSU PH number on the PSU shelf. PHs are assigned as a component of an ISCN on AMLBDSL forms (5447 Record), DSL forms (5907 Record), DSLAP forms (5963 Record), DSLUSR forms (5908 Record), OSPSDSL forms (5411 Record), PSISM forms (5920 Record), and TRUNK forms (5204 Record). PHs are also assigned in the CHL GRP field on ODBRES forms (5906 Record). The total quantity of PHs assigned on these forms must not exceed the quantity of PHs defined for the given SWITCHING MODULE and PSU SHELF on an EQPSUPH form (5742 Record) with EQST set to "O". The CHL GRP is a "logical" value. The number that is assigned in this field will not always be the number of the PH that is used. The quantity of PHs defined on the EQPSUPH form relative to the quantity of PHs assigned on the aforementioned forms is critical; the actual values are not of importance.

Each ISCN entry (D/PPB1/PPB2 ISCN on the DSL 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.

For CHL, enter the PSU PH member number.

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.

This field cannot have the same SHELF and CHL GRP, within the same SM, as an ISCN from a PSISM form (5920 Record), or a TRUNK form (5204 Record) with an associated TRKCLS of "PACKET" or "X75P" defined

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on a TKGRP form (5202 Record).

Each SM can have up to 5 PSU shelves. Each Shelf can have up to 16 protocol handlers. Shelves and protocol handlers are defined by the first 3 digits of the ISCN field. Each protocol handler can be assigned up to 32 time slots (or 128 quarter time slots).

SM/ISCNs assigned on this form must have a corresponding combination of SM, PSU, PSU SHELF and GRP entered on the PSUGP form.

AMLBDSL, DSL, DSLAP, DSLUSR, ODBRES, OSPSDSL, RTERM, and XAT forms 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 ISCNs from PSISM forms or TRUNK forms that have a TRKCLS of "PACKET" or "X75" or "X75P" defined on the TKGRP form.

A maximum of 128 ALCBs (Access Link Control Blocks) can 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.

For 5E9(1) and later, if the OE is defined on a DSLUSR form with DPKT TN or DPKT MLHG and TERM entered, then the first three digits of the OE, the first digit of D ISCN, and the second two digits of D ISCN must be defined in the SM, PSU SHELF, and GRP fields on a PSUGP form (5949 Record) where PH TYPE is set to "PH3".

For 5E9(1) and later, if D ISCN and/or PPB1/PPB2 ISCN are assigned with an originating equipment type of "G", each ISCN or SHELF/CHL GRP/CHL combination must have a proper Packet Switching Unit shelf assigned on the EQIDCU form. The PSU shelf specified by the first digit of the ISCN on either the DSL form ..sx mlh sep 95> must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

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

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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"

For 5E11 and later, D ISCN must be entered for the existing form tuple in Large Terminal Growth. (AILA (Automatic ISDN Line Assignment) existing form tuples in Large Terminal Growth should still keep the old checks whether AILA feature active or not). For more information on this feature, see Division 2, Section 1BO.

When D ISCN is not entered, D RELPIDB, D TIMESLOT, QTR TS, DS1 and DS1 TS must not be entered.

For 5E12 and later, for OE TYPE of "E", ISCNs assigned on the DSL, DSLUSR, DSLAP, or MISLINK forms, must have a PIDB with a PIDB TYPE of "PSU" assigned on the same Packet Switching Unit shelf on the EQAIU form as the PSU shelf specified by the first digit of the ISCN.

For 5E13 and later, ISCNs assigned on the DSL, DSLUSR, DSLAP, IPDSL or MISLINK forms must have a PIDB with a PIDB TYPE of "PSU" assigned on the same Packet Switching Unit shelf on the EQAIU form as the PSU shelf specified by the first digit of the ISCN (on the MISLINK form, ISCN is the combination of SHELF, CHL GRP, and CHL; on the IPDSL form, ISCN is the combination of PSIU SHELF, DSL GRP and PH CHAN or B PH CHAN).

2.4 # D SERV

Description: Enter the service on the D-channel.

Required Field.

Valid D SERV Entries

Entry	Definition
ADMIN	No Q.931 control signaling or X.25 signaling; therefore, no D-channel service.
SONLY	Q.931 control signaling only; used for an ISDN Attendant (applicable for Point-to-Point only).
SX	Q.931 signaling and X.25 packet signaling.
XMP	D-channel Packet Switching for Modem Pooling.

Data Rules:

ADMIN:
If this field is set to "ADMIN", then the B1 SERV and/or B2 SERV fields must either not be entered, or be set

to "X25". The MDPKT field must be set to 0, which indicates that D-channel service is not allowed for any user of this DSL.

SONLY:
If this field is set to "SONLY" (ISDN Attendant use), then the B1 SERV field must be "DMD", and the B2 SERV field must not be entered. The ACSR GRP field must not be entered; the ACSR (Automatic Customer Station Rearrangement) feature does not support ISDN attendants. All the DSLUSR forms, for this DSL, must have TERM TYPE set to "ATND".

For 5E12 and later, when a DSL form has DSERV set to "SONLY", all of the DSLUSR forms with an OE that matches the DSL OE must have TERM TYPE set to "ATND" or "TYPED".

SX:
If this field is set to "SX", then the B1 SERV and B2 SERV fields must both be entered.

XMP:
If this field is set to "XMP" (Modem Pool member):

- then the B1 SERV and B2 SERV fields must not be entered, the MDPKT field must be set to 1, and the DSL CLS field must be set to "PP". The digital portion of a Modem Pool member (a Terminal Adaptor) is a single user that only applies the D-channel service.
- then only one DSLUSR form, for this DSL, must exist with only the DPKT MLHG and DPKT TERM optional keys entered. Only the D-channel is applied. On the sole DSLUSR form, DPKT HUNT NOTIF must be blank, DPKT HUNT DEACT must be "N", DPKT NOTIF must not equal "COND", and DPKT CHL SEL must equal "N". The DSLUSR form must not have the DPKT H PVC LCN, DPKT L IN LCN, DPKT H IN LCN, DPKT L OUT LCN, and DPKT H OUT LCN fields entered, and must have the DPKT L 2W LCN and DPKT H 2W LCN fields set to 1. A Modem Pool group member is allowed a single two-way LCN, which is an SVC. (Refer to the paragraphs, in Division 5, Section 1I of this document which describe LCNs used with D-channels.) The DPKT CUGPX field must be entered. (Refer to the paragraphs, in Division 5, Section 1I of this document which describe CUGs.) For 5E9(1) and later, DPKT MLHG TN must be blank. Division 5, Section 1I of this document describes the DSLUSR form.
- for 5E9(1) and later, DPKT MLHG(s) assigned on a corresponding DSLUSR input form must have all corresponding DPKT TERM(s) defined on a PSCUG form as PKT MLHG/TERM. The DNIC/ICN entries on the PSCUG form must be identical for all DPKT TERM(s) within a DPKT MLHG. (The corresponding forms are found by matching OE from the DSLUSR form to DSL OE on a DSL form.)

NOTE: For Modem Pool Terminal Adapters (D SERV = XMP), there must be only one DNIC/ICN combination defined per DPKT MLHG and only one PSCUG form defined per DPKT MLHG/TERM. The CUG IDX on the PSCUG form must match the DPKT CUGPX on the corresponding DSLUSR form.

2.5 B1 SERV

Description: Enter the service on the B1-channel.
Default: DMD
Valid Entries:

Valid B1 SERV Entries

Entry	Definition
DMD	Demand access to CSD (Circuit-Switched Data), CSV (Circuit-Switched Voice), or X.25 Packet-Switched Data.

X25	Permanent Packet (dedicated to X.25 Packet-Switched Data).

Data Rules:

This field must be set to "DMD" if a DSLUSR form has been submitted, for this DSL, with the CSV CHL and/or the CSD CHL fields set to "B1". The "B1" choice indicates that a user of this DSL wants Demand service on the B1-channel.

This field must be set to "DMD" if a DSLUSR form has been submitted, for this DSL, with the CSV and/or the CSD fields set to 2. The choice of 2 indicates that a user of this DSL wants Demand service on both B-channels.

This field must be set to "X25" if a DSLUSR form has been submitted, for this DSL, with the PPB1 USR field set to "Y". The "Y" in the PPB1 USR field indicates that a user of this DSL wants to use the B1-channel on a Permanent Packet Basis (dedicated to X.25 Packet-Switched Data).

When B1 SERV is "X25", PPB1 LCC/RAX/RATE/N2/T1/T3/WNDSZ must be entered.

2.6 B2 SERV

Description: Enter the service on the B2-channel.
Default: DMD
Valid Entries:

Valid B2 SERV Entries

Entry	Definition
DMD	Demand access to Circuit-Switched Data, Circuit-Switched Voice, or X.25 Packet-Switched Data.
X25	Permanent Packet (dedicated to X.25 Packet-Switched Data).

Data Rules:

This field must be set to "DMD" if a DSLUSR form has been submitted, for this DSL, with the CSV CHL and/or the CSD CHL fields set to "B2". The "B2" choice indicates that a user of this DSL wants Demand service on the B2-channel.

This field must be set to "DMD" if a DSLUSR form has been submitted, for this DSL, with the CSV and/or the CSD fields set to 2. The choice of 2 indicates that a user of this DSL wants Demand service on both B-channels.

This field must be set to "X25" if a DSLUSR form has been submitted, for this DSL, with the PPB2 USR field set to "Y". The "Y" in the PPB2 USR field indicates that a user of this DSL wants to use the B2-channel on a Permanent Packet Basis (dedicated to X.25 Packet-Switched Data).

For 5E11 and later, when B2 SERV is "X25", PPB2 LCC/RAX/RATE/N2/T1/T3/WNDSZ must be entered.

2.7 BRI TYPE

Description: This field is used only by Recent Change to display the type of line card used by this BRI. For 5E8 and later, this field is left blank for IDCU DSLs.

Software Release: 5E6 and later

2.8 PM GRP

Description: This field is used to define a PM (Performance Measurement) GRP (Group) name.

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Valid Entries: 1 - 8 characters

Data Rules:

When PM GRP is entered, a corresponding PMTHRESH form (5948 Record) must be entered with PM TYPE of "DSL".

2.9 ACSR GRP

Description: Enter the name of the Automatic Customer Station Rearrangement group.

The assignment of an ACSR group allows the users to move from DSL to DSL or change the User Service Order Profile associated with a DSL.
Valid Entries: 1 - 8 characters

Data Rules:

If an entry is made in this field, then the entry must be defined in the ACSR GRP field on an ACSRGP form (5959-2 Record).

A CKT TN that has an ACSR feature assigned to it and is defined on a DSLUSR form, associated with this DSL, must have the same ACSR group assigned to it on an individual basis as the ACSR group entered in this field. An ACSR feature (with a group) is defined on an ACSRFD form (5959-1 Record), or an ACSRLPA form (5959-3 Record) and then assigned to the CKT TN on a LINEFA form (5112 Record), BFG form (5625 Record), or associated CLUSTR form (5600 Record).

2.10 DFLT SRV

Description: Default Service allows unknown CPE (Customer Premise Equipment) on a DSL (Digital Subscriber Line) which has subscribed to Default Service to originate ACSR, BRI Test Line, 108 Test Line, BRI Verification, Repair (611), Business Office (811), and Emergency (911) calls. Terminations to the user are denied with Default Service. For more information on the NI-3 Default Service Feature, see Division 2, Section 1AM. Also for 5E10 and later, see Division 2, Section 4A238 for information on the Automatic Association of Default Service feature.

Enter the name of the Default Service that is available to this DSL.
Valid Entries: 1 - 7 characters. The first character must not be a slash (/).

Data Rules:

The entry must be defined in the DFLT SRV field on a DFLTSRV form (5974 Record).

If the ACSR GRP field has an entry, this field must have an entry.

If an entry is made in this field, then the B1 SERV and/or B2 SERV fields must be set to "DMD". The ACSR feature does not support Permanent Packet B-channels.

If an entry is made in this field, the entry may not be "ACTBFG", "NONTGID", "CLEANUP", "TEMP", "SETUP" or "ABORT". The 5ESS Switch software treats Default Service as a BFG (BRCS Feature Group) and gives it an internal BFG identifier. This is transparent to the ODA user. The ODA user will define the group on a DFLTSRV form and then assign the group to a DSL on the DSL form. A BFG form (5625 Record) will never be applied. However, the six prohibited group names are reserved BFG names.

2.11 DSL CLS

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Description: This field specifies the DSL class as a single user, multiple users under the Lucent Technologies custom protocol, or multiple users under the Bellcore standard protocol.

The Bellcore standard protocol does not support PODs (Plain Old Data) service.

Required Field.
Default: STD
Valid Entries:

Valid DSL CLS Entries

Entry	Definition
MP	Multipoint BRI. The DSL supports multiple active users (maximum of 8). A Lucent Technologies proprietary (custom) protocol is used.
PP	Point-to-Point BRI. The DSL supports a single active user.
STD	Software Release: 5E8 and later. Standard BRI. The DSL supports multiple active users (maximum of 8). The Standard (Bellcore compliant) protocol is used.

Data Rules:

The MTERM field on this form indicates the maximum number of provisioned users, regardless of the quantity of active users indicated in the ACT USR fields on the DSLUSR forms associated with this DSL.

MP:
If this field is set to "MP", and the MTERM field has no entry, then the MTERM field will be assigned a value of 2.

If this field is set to "MP", then the D SERV field must be set to "SX". For 5E6 and later, if this field is "MP" and RSTR MP is "N" or blank, then ACT USR must be "Y" on all corresponding DSLUSR forms (DSL OE on this form matches the OE on the DSLUSR forms).

PP:
If this field is set to "PP", and the D SERV field is not set to "ADMIN" (there are no users associated with the "ADMIN" case, only Permanent Packet B-channels), and the MTERM field is not entered, then the MTERM field will be assigned a value of 1, since a Point-to-Point DSL can only have one active user.

If this field is set to "PP", and the D SERV field is set to "ADMIN", and the MTERM field is not entered, then the MTERM field will be assigned a value of 0, since there are no users associated with the "ADMIN" case.

This field must be set to "PP" if a DSLUSR form has been submitted, for this DSL, with the CSV CHL and/or the CSD CHL fields set to "B1" or "B2".

STD:
For 5E8 and later, when DSL CLS is "STD":
ACSR GRP must not be entered.
CUT DGTS must be entered,
D SERV must be "SX",
MTERM must be 1 - 8
RSTR MP must be "N" or not entered
DFLT SRV must not be entered.(5E8 - 5E9(2))

- For (R)ISLU, the associated Line Card defined on the ISLULC form must have TYPE set to

"AULC"

"SAULC"

"TLC"

- For IDCU, the associated RT defined on the RTERM form must be set to "TR303".

All DSLUSR forms assigned to this DSL (where OE field values match) must observe the following rules:

- The DSL users must be assigned an "ISDN" CLASS OF SERVICE on the associated LCC form;
- If CKT TN or CKT MLHG/TERM are entered,

  ACT USR must be "Y"

  BRITL ALW must be "N"

  or not entered

  LN TYPE must be "NONE"

  or not entered

  SAR NUM must not be entered

  SERHLN must not be entered

  and the following fields must be "N"

  ASP ALW

  INCOMING

  INTERCOM

  LONG DST DR ORIG CW

  PP

  SAR ORIG

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SAR TERM

- If CONFIG GRP is entered on the DSLUSR form, it must be defined on a CFGGRP form where CPE COMPONENT is not greater than 0, and GRP TYPE is "STD";
- If CKT MLHG is entered on the DSLUSR form, it must be defined on an MLHG form where AP SITE ID and BCID1 - BCID6 are not entered, and where the MLHG FEATURE does not have HUNT TYPE "ISAT" or "PMHG" defined on an MLHGFD form;
- If the EKTS field is entered on the DSLUSR form, TERM TYPE must be "TYPEC"; if EKTS is not entered, TERM TYPE must be "TYPEA", CA and CA QTY must be 0;

Standard Only BRI Features:
The following features may be assigned only to Standard BRI users (None of these features may be assigned to non-standard BRI users.):

- LASS Automatic Recall for Data features defined on an LSARFD form (5971-1 Record) where CSD ALW is "Y"
- For 5E9(1) and later, Multiway features defined on MWFD forms (5602-1/2 Record) with MULTIWAY TRANSFER set to "ET" may be assigned only to Standard BRI users.

Standard BRI and Shared Analog Features:
The following features can only be assigned to a DSLUSR from to Standard BRI or a primary analog line shared to a Standard BRI via the SHTN form.

- BRCS RND (Redirecting Number Delivery) features defined on an RNDFD form (5983 Record) may be assigned only to Standard BRI users and to analog lines shared to those users on the SHTN form.

Blocked Standard BRI and Shared Analog Features:
The following BRCS feature types may not be assigned to Standard BRI users or to analog lines shared on the SHTN form to Standard BRI users:

The following are totally blocked:

- TERM feature - Automatic Call-Back features defined on the ACBFD form (5616-1 Record);
- TERM feature - ISDN ACSR features defined on the ACSRFD form (5959-1 Record),
- Precedence and Preemption features defined on the PPFD form (5618-1 Record);

The following are conditionally blocked.

- For 5E9(1) and later when the SFID 139 ACT field is not "Y" on the SFSYS form (5713-1 Record), Advanced Services Platform features defined on the ASPFD form (5632-1 Record).
- Intercom features defined on the ICMFD form (5960-1 Record) may not be assigned unless EKTS is "CACH" on the DSLUSR form ;

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- For 5E9(2) and earlier, Call Forwarding features defined on a CFWFD form (5614-1/2 Record) where CFPF ALW is "Y".

  However, for 5E10 and later, if the ACT field for SFID 225 is "Y" indicating National ISDN-3 BRI features are activated, then this feature is not blocked.

- For 5E9(1) and later, Call Forwarding features defined on a CFWFD form with FWD CONDITION set to "ACDI";

- Display and Privacy features defined on a DISPFD form (5965 Record) where either TIME DATE or INSPECT is "Y"

- Line Identification features defined on an LIDFD form (5966 Record) where CALL NBR DELIV PRIM is "Y"

- Message Service System features defined on an MSFD form (5962-1 Record) where

  LW CALLING is "INOUT" or "OUT"

  MSG RTRVL DISP is "Y"

  PRNT ON DEMAND is "Y" or AUTO CALL is "Y";

- Calling Party Number / Billing Number features defined on a CPNBNFD form (5982 Record) where CPN BN is not "CPNONLY" or "CPNPREF";

- For 5E9(1) and later, Call Pickup Originating features defined on a PUOFD form (5605-1 Record) where INITIATE is one of the following:

  "ANSBACK"

  "BPARK"

  "DPARK"

  "RTRV"

- For 5E10 and later, if the ACT field for SFID 225 on the SFSYS form (5713-1 Record) is "Y", then:

  CND SHAR DN must be "N"

  or CDN PRIM DN must be "Y"

  or DQD must be "Y"

  or AUTO CALL must be "Y".

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Electronic Delivery Services features may only be assigned on the EDSFD form if SFID 225 ACT field is "Y".

Blocked Standard BRI Only:
The following BRCS features may not be assigned with the indicated option to Standard BRI users:

Totally blocked features:

- For 5E9(1) and later, Call Waiting features defined on the CWTFD form

Conditionally blocked features:

- Multiway calling features defined on an MWFD form (5602-1/2 Record) where DIAL CODE OR BUTTON is "Y";

EKTS Features:
ISDN Intercom Features that can only be assigned to a DSLUSR form if the EKTS field on DSLUSR is "CACH".

- ISDN Intercom features defined on the ICMFD form (5960-1 Record) cannot be assigned to DSL users when EKTS is blank on the DSLUSR form.

If the DSL user is a member of an EKTS group listed on an SHTN form, SHARED must be "Y", and EKTS must be "BASIC" or "CACH";

NOTE: Features that can be assigned only to Standard BRI users or to analog lines shared to those users may not appear on the same CLUSTR or BFG forms as features that cannot be assigned to standard BRI users. Mixing these features will cause assignment errors on the LINEFA or MLHLNFA forms.

For 5E8 and later, when DSL CLS is not "STD", all DSLUSR forms assigned to this DSL (OE field values match) must observe the following rules:

- The following DSLUSR fields must not be entered;

  AGI

  CSV ACO

  CSV LIMIT

  CSD ACO

  CSD LIMIT

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EKTS

- if TERM TYPE is other than "TYPEE", CA QTY must be entered; CA must be entered if TERM TYPE is:

  "ATND"

  "TYPEB"

  "TYPEC"

  "TYPED"

SERHLN on the DSLUSR form may not be defined on another DSLUSR form that is assigned to a DSL with DSL CLS of "STD";

2.12 RSTR MP

Description: Is this Multipoint DSL restricted to a single active user?
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then the DSL CLS field must be set to "MP". This field has no meaning for a Point-to-Point DSL since it can have only one active user.

If "Y" is entered, then only one DSLUSR form, for this DSL, can exist with the ACT USR field set to "Y".

2.13 ACSR INH

Description: Should use of the Automatic Customer Station Rearrangement feature be inhibited on this DSL?
Valid Entries: Y, N

2.14 MDPKT

Description: This field indicates the maximum number of users of this DSL that are allowed X.25 Packet Switching services on the D-channel.
Valid Entries: 0 - 8

Data Rules:

If this field has no entry, and the D SERV field is "ADMIN", then this field will be assigned a value of 0. There are no users associated with a D SERV value of "ADMIN". For 5E6 and later, if D SERV is "ADMIN" or "SONLY", MDPKT must be 0.

For 5E6 and later, if D SERV is "XMP" and DSL CLS is "PP", then MDPKT must be 8.

The MDPKT entries on DSL form(s) are used to indicate the maximum number of DSLUSR forms that can be defined with an entry for DPKT TN or DPKT MLHG/TERM and an OE that matches the DSL OE entered on the DSL form. The number of DSLUSR forms, meeting the above conditions, cannot be greater than the value

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of MDPKT field.

2.15 MTERM

Description: Indicate the maximum number of active users, on this DSL, regardless of the quantity of active users indicated in the ACT USR fields on the DSLUSR forms associated with this DSL, that will simultaneously receive services. The users are handled on a "first plugged in", "first serviced" basis.
Valid Entries: 0 - 8

Data Rules:

If this field is not entered, and the DSL CLS field is set to "PP", and the D SERV field is not set to "ADMIN" (which is not associated with users) this field must equal 1.

If the D SERV field is set to "ADMIN", this field must equal 0. The "ADMIN" case is not associated with users.

If the DSL CLS field is equal to "MP", and this field is not entered, then this field will be assigned a value of 2.

If the DSL CLS field is equal to "MP", then this field must have a value between 2 and 8.

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]	number of ISDN Terminals is incremented by 1 for each LCEN list element defined.
MISLINK	OE[1,3]	1
OSPSDSL	LCEN[1,3]	1 where SERVICE CLASS is not "XDB"

2.16 D RELPIDB

Description: The Peripheral Interface Data Bus is the vehicle that links the D-channel of the DSL, resident on an ISLU or IDCU in an SM, to the SM's peripheral PSU.

NOTE: For (R)ISLU and IDCU, the manual entry of the D RELPIDB, D TIMESLOT, QRT TS, DS1, and DS1 TS fields is optional. ODA will mechanically enter this data if not entered by the customer. However, if entered by the customer, when one of these time slot fields is entered, all of the appropriate fields for the equipment type (i.e., ISLU or IDCU) must be entered. For example, for ISLU, the D RELPIDB, D TIMESLOT, and QRT TS fields must be entered. For IDCU, the D RELPIDB, D TIMESLOT, QTR TS, DS1, and DS1 TS fields must be entered. Additionally, if populated by the customer, the D RELPIDB must be connected to the PSU shelf assigned to a D ISCN. Also, if the D RELPIDB/D TIMESLOT is the same on any form, the DS1/DS1 TS must also be the same across the DSL forms and vice versa. When D channel assignments are made, the set of D RELPIDB, D TIMESLOT, DS1 AND DS1 TS must also be the same across the DSL forms.

For IDCU, it is also important to note that IDCU remote terminal ports must not have duplicate IFAC (IDCU Facility), that is, DS1 time slot assignments. This may occur on any of the following forms: DSL, DSLUSR (5908 Record), ODBTS (5905 Record), NAILUP (5207), RTERM (5174).
Valid Entries: 12 - 22, or blank (for IDCU)

Data Rules:

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For ISLU, the PIDB number entered must be assigned on an EQISLU form (5731 Record) with the PIDB TYPE field equal to "PSU", and the SHELF field equal to the first digit of the D ISCN field on this DSL form. For IDCU, the identical condition must exist on the EQIDCU form (5846 Record).

If D RELPIDBs and/or B RELPIDBs are assigned, then a corresponding PIDB with a PIDB TYPE of "PSU" must be assigned on the EQISLU form.

For 5E9(1) and later, for manually assigned D RELPIDBs, there must be an EQISLU form with a matching PIDB whose PSU SHELF matches the first digit of D ISCN and/or PPB1/PPB2 ISCN.

If the DSL is resident on a RISLU, this field must not be entered.

For 5E10 and later:

For manually assigned D RELPIDBs and/or PPB1/PPB2 DPIDBs, with DSL OE originating equipment type of "G":

- each PIDB must have proper Packet Switching Unit shelf assigned with matched PIDB NO. on the EQIDCU form. The PSU shelf, which is specified by the first digit of the D ISCN and/or PPB1/PPB2 ISCN on the DSL forms, must be defined on the EQIDCU form with a PIDB TYPE of "PSU".
- must have a corresponding PIDB NO. with a PIDB TYPE of "PSU" assigned on the EQIDCU form.

For 5E12 and later:

When the following forms have D RELPIDBs and/or B RELPIDBs assigned , there must be a TSGRP NO with a PIDB TYPE of "PSU" assigned on the EQAIU form (5745-1/2 Record): DSL, DSLAP, or MISLINK.

For manually assigned D RELPIDBs and/or PPB1/PPB2 DPIDBs, with DSL OE originating equipment type of "E":

- there must be a EQAIU form assigned with a matching TSGRP NO whose PSU SHLF matches the first digit of D ISCN and/or PPB1/PPB2 ISCN (on the DSL form), and/or the LINK DATA ISCN (on the DSLAP form), and/or SHELF (on the MISLINK form), and/or the PSIU SHELF (on the IPDSL form; 5E13 and later).
- assigned AIU DSLs which have identical entries for the first six digits of the OE, and also have the same D REL PIDB and D TIMESLOT entries, must also have the same PACK (OE[7,8]), and SHELF/CHL GRP (also defined as the first through third digits of the [D] ISDN).

For 5E13 and later:

When the following forms have D RELPIDBs and/or B RELPIDBs assigned , there must be a TSGRP NO with a PIDB TYPE of "PSU" assigned on the EQAIU form: DSL, DSLAP, IPDSL or MISLINK.

2.17 D TIMESLOT

Description: Enter the D-channel Time Slot.

Manual entry of this field is optional; ODA will select the data if not entered by the customer. However, if entered by the customer, the appropriate assignment rules for the equipment type must be followed

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NOTE: See "Note:" in the D RELPIDB field above.

When making manual assignments, care must be taken to use assignments as shown in Figure 1, *D TIMESLOT Assignment vs LCG and D REL PIDB Entries.* For example, if manual assignments are being made on the DSL form and the D REL PIDB selected is 11 and the LGC from the OE is 0, then the D 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.
Valid Entries: 0 - 31

Data Rules:

For ISLU, if this field is entered, the value must not equal the value expressed by the fifth and sixth digits of the DSL OE field (the LGC), nor that value plus 16.

For ISLU, if the DSL is resident on a RISLU, this field must not be entered.

For ISLU, time slots, for a given combination of SM, ISLU, and PIDB, may not be be duplicated more than three times (D-channels utilize up to four Quarter Time Slots) on other DSL forms, DSLAP forms, or OSPSDSL forms.

For ISLU and IDCU, all the DSLs on an SM that have the same values of D RELPIDB and D TIMESLOT must have the same SHELF and CHL GRP number (the first three digits of the D ISCN).

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 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.

For 5E9(1) and later, the combination of SM, IDCU, DPIDB and TIMESLOT must be unique. DSLs cannot be assigned duplicate time slots on the following forms:
DSL form - D-channel and B-channel time slots
MISLINK form - D-channel time slots
RTERM form - EOC and TMC PRI/NPRI time slots

All of the digital subscriber lines on an SM, i.e.,
IDCU DSLs defined on the DSL or
MISLINK forms
ISLU/ISLU2 DSLs as defined on the DSL,
DSLAP, MISLINK or OSPSDSL forms

which have identical entries for the first five digits of the OE
(LCEN[1,5] for ISLU2, or
(DSL) OE[1,5] for IDCU) or

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OE[1,4] for ISLU

and which also have the same D REL PIDB and D TIMESLOT entries, must also have the same LGC, i.e.,
(LCEN[6,7] for ISLU2) or
RT (OE NUMBER[6,7] for IDCU or
OE[5,6] for ISLU), and
SHELF/CHL GRP (also defined as the first
through third digits of the [D] ISDN) entries.

For 5E9(1) and later, unassigned D TIMESLOTs and/or B TIMESLOTS require that ODA assign these values. The ODA assignment requires that LKCENs ("K" type Equipment Number) assigned to LGs 0 - 7 (Note: the sixth and seventh digit of the Equipment Number is the LG) get time slots on odd numbered EQISLU PIDBs and that LCKENs assigned to LGs 8 - 15 get time slots on even numbered EQISLU PIDBs, each with a PIDB TYPE of "PSU".

For 5E10 and later, when the DSL or DSLAP forms have unassigned D TIMESLOTs and/or B TIMESLOTS, ODA assigns these values. The ODA assignment requires that LKCENs (DSL OE on the DSL for "K" TYPE) assigned to LGs 0 - 7 (Note: the sixth and seventh digit of the LCKEN/DSL OE is the LG) get time slots on odd numbered EQISLU PIDBs and that LCKENs assigned to LGs 8 - 15 get time slots on even numbered EQISLU PIDBs, each with a PIDB TYPE of "PSU". If there are either no odd numbered PIDBs for LG 0 - 7 or even numbered PIDBs for LG 8 - 15 on this ISLU2, a cross check error will occur.

2.18 QTR TS

Description: Enter the D-channel Quarter Time Slot.

Manual entry of this field is optional; ODA will populate the data if not entered by the customer. However, if entered by the customer, the appropriate assignment rules for the equipment type must be followed (see Note: in the D RELPIDB field above).

The QTR TS, in the case of IDCU, requires a quarter time slot on the D RELPIDB and a quarter channel on the DS1.

A time slot is assignable in four quarters and can be assigned to either of the following fields: D RELPIDB, D TIMESLOT, DS1, and DS1 TS. For efficiency, quarter time slots should be packed four to a time slot. When doing this the D RELPIDB, D TIMESLOT, DS1, and DS1 TS must be the same across all of the four quarter time slots being packed.
Valid Entries: 0 - 3

Data Rules:

If any of the D RELPIDB, D TIMESLOT, or QTR TS fields are entered, then all three must be entered.

If the DSL is resident on a RISLU, this field must not be entered.

For 5E9(1) and later, QTR TS may only be assigned ISLU(2) DSLs.

The QTR TS may not be duplicated for the same combination of SM, ISLU/ IDCU, D RELPIDB and D TIMESLOT on another DSL form, or a DSLAP form, or an OSPSDSL form.

In order to conserve resources, the assignment of quarter time slots must be "packed". That is, all quarter time slots in a time slot must be assigned (if possible) to a time slot before another time slot is used. To pack the time slot, all D-channels on an LGC are candidates for assignments to the same time slot. No D-channels

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can be assigned to a time slot to which a D-channel from another LGC has been assigned. The D-channels which are assigned to a time slot must all be in the same CHL GRP. The only restriction on the D ISCN is that all members assigned to a given time slot must be in the same CHL GRP and have the same SHELF assignment (first three digits of the D ISCN).

5E10 and later:
QTR TS may only be assigned ISLU(2) DSLs.

Digital subscriber lines cannot be assigned duplicate D-channel quarter time slots.

For the Originating Equipment Types of "G", when packing QTR TS on DSL forms (up to 4 to a TS) on an SM/IDCU/RT (the first seven digits of the DSL OE):

- the assigned QTR TS and the D ISCN (last three digits) must be unique across the identical set of the DSL form (SM/IDCU/RT) in question.
- the set of D RELPIDB D TIMESLOT, DS1, DS1 TS must each be identical (ie: DS1 = DS1, etc.) and the first three digits of the D ISCN must also be the same on these DSL forms. If the D RELPIDB/D TIMESLOT is the same on any forms the DS1/DS1 TS must also be the same across those DSL forms. The converse is also true. The first three digits of the D ISCN must be consistent also.

2.19 DS1

Description: Enter the RT DS1 which carries the D-channel time slot. Refer to the RT IFAC TERMINATION field on the RTERM form (5174 Record) to correlate an RT DS1 to its associated IFAC, and vice versa.

Manual entry of this field is optional; ODA will populate the data if not entered by the customer. However, if entered by the customer, the appropriate assignment rules for the equipment type must be followed (see Note: in the D RELPIDB field above).

For IDCU (DSL OE "M" or "G"), the IDCU DS1 selection is optional, if not populated by the customer, ODA will select a DS1. If populated by the customer the D RELPIDB, D TIMESLOT, QTR TS and DS1 TS must be populated.
Valid Entries: 1 - 28

2.20 DS1 TS

Description: Enter the IDCU DS1 IFAC time slot.

Manual entry of this field is optional; ODA will populate the data if not entered by the customer. However, if entered by the customer, the appropriate assignment rules for the equipment type must be followed (see Note: in the D RELPIDB field above).

NOTE: To pack QTR TS, the D TIMESLOT, D RELPIDB, DS1 and DS1 TS must be identical. The first three characters of the ISCN must also be identical. The first character of the ISCN must correspond to the DPIDB shelf assignment on the EQIDCU form for D RELPIDB. Also, the SM, IDCU and RT from the DSL OE must be identical.

For IDCU (DSL OE is set to "M" or "G"), the IDCU DS1 TS selection is optional. If not populated by the customer, ODA will populate it. If populated by the customer, the D RELPIDB, D TIMESLOT, QTR TS and DS1 must be populated. This DS1 TS should be one of the time slots on the selected DS1. For an ISLU (DSL OE is set to "I"), the DS1 TS field must be blank.
Valid Entries: 0 - 23

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Data Rules:

The combination of SM, IDCU, IFAC and TIMESLOT must be unique. The following IDCU remote terminal ports cannot be assigned duplicate IFAC (DS1) time slots:

IFAC TIMESLOTS

Form	Timeslots
DSL	D-channel (DS1 and DS1 TS) and B-channel (PPB1/2 DS1 and DS1 TS) time slots
MISLINK	D-channel time slots (DS1 and DS1 TS)
NAILUP	nailup/hairpin time slots: C PATH DS1 and NC PATH DS1 for the IFACs. C PATH1 DS0, C PATH2 DS0, NC PATH1 DS0, NC PATH2 DS0 for the time slots.
RTERM	Fixed time slots for the primary and secondary TMC and EOC are assigned by ODA on the primary IFAC (the 1st IFAC in the RT TERM/IFAC list) and backup IFAC (EOC/TMC BKUP TERM) for the RT.

The fixed time slots are TS 11 for EOC and TS 23 for TMC. If ZCS (SUP METHOD is "303ZC" on the RTERM form) signaling is used by the IFAC, additional guard channels (TS) are required; they are TS 10 for EOC and TS 0 and 22 for TMC. ISDN applications (DSL and MISLINK form) are not allowed when ZCS signaling is used.

2.21 CUT NPA

Description: The CUT NPA field is used to specify the NPA (Numbering Plan Area) code to be used during cutover activities. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later
Valid Entries: Enter 3 digits of the form (2-9)(0-9)(0-9).

Data Rules:

For 5E12 and later, CUT NPA and/or the first three digits of CUT DGTS(s) entered on the DSL form must match an NPA and/or OFFICE CODE defined on the NOC form.

2.22 CUT DGTS

Description: Enter the four digits to be used during cutover activities to determine the line state of this DSL (active or inactive). It is suggested that the digits entered be the first four digits from one of the telephone numbers associated with the DSL.
Valid Entries: Each of the four digits may range from 0 to 9.

Data Rules:

The first three digits must be defined in the OFFICE CODE field on an NOC form (5501 Record). The fourth digit is the companion thousands digit.

If this field is entered, one of the following four conditions must be true:

- The DSL CLS field on this form is set to "MP";
- The DSL CLS field on this form is set to "PP" and there is no Circuit Switching done by this DSL (the CKT TN field or the combination of the CKT MLHG and CKT TERM fields are not entered);

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- The DFLT SRV field on this form is entered;
- The D SERV field on this form is set to "ADMIN", and the B1 SERV or B2 SERV fields on this form are set to "X25".

For 5E12 and later, if the first 3 digits of CUT DGTS on the DSL 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, CUT NPA must also be entered on the DSL form.

2.23 TSTLINE

Description: Is this DSL put into service while the 5ESS Switch is in the Pre-Cutover mode?

A value of "Y" would be an exception to a group of lines in a Switching Module that have been set to a Pre-Cutover status equal to "INACTIVE". This is normally done for test lines, not "live" customers. It is recommended that all lines submitted at the time of Selected Line And Trunk Translations be set to "Y".

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When this field has a value of "N", refer to the IMINFO form (5510 Record) and the COTH form (5513 Record) for the Pre-Cutover and Post-Cutover status of all telephone numbers in the office.

2.24 EL

Description: Is this an ESP (Essential Service Protection) DSL?

A value of "Y" marks the DSL as "essential". The DSL is covered by ESP, a priority service which guarantees ESP lines a greater probability of origination than non-ESP lines during extreme system overload. When EL is "Y" in extreme system overload, ESP will give a 5 to 1 call origination priority to ESP lines over non-ESP lines.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

2.25 PREX

Description: Should REX be prohibited for this BRI? This field supports the Prohibit Routine Exercise secured feature (SFID 267). Note that this field interacts with the PREX ON BRI field on the ISDNOPT form which supports the Prohibit REX on BRI Lines Per Office feature (SFID 266).

See Division 2, Sections 4A266/267.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

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For 5E11, when PREX is "Y", DSL OE TYPE cannot be "G".

For 5E12 and later, when PREX is "Y", DSL OE TYPE cannot be "A" or "G".

If this field is entered, SFID 267 ACT on the SFSYS form (5713 Record) must be "Y".

3. FORM ENTRIES - 5907-2, 5 RECORDS

PERMANENT PACKET B-CHANNEL ASSIGNMENTS

Fields Section 3.1 - Section 5.15 refer to fields for the Permanent Packet B-channel assignments.

Permanent Packet B-channels are dedicated to X.25 Packet Switching and to usage by a single user. They do not handle CSV or CSD services. They cannot be shared by multiple users in a Pure Multipoint environment.

If the B1 SERV field is not set to "X25", then the B1-channel is not used for Permanent Packet service. Thus, the customer should not visit any field under the PPB1 (PERMANENT PACKET B1) heading. Non-defaulted fields must not be entered and defaulted fields must be left as defaulted. The SUST field, which is used to deny termination, will be assigned a value of "Y".

If the B1 SERV field is "X25", then the B1-channel is used for Permanent Packet service. Thus, the customer must visit many of the fields under the PPB1 heading. The TN field and/or the MLHG and TERM field combination must be entered. The LCC, RAX, ISCN, RATE, N2, T1, T3, and WNDSZ fields must be entered. The D SERV field must be "SX" or "ADMIN".

If the B2 SERV field is not set to "X25", then the B2-channel is not used for Permanent Packet service. Thus, the customer should not visit any field under the PPB2 (PERMANENT PACKET B2) heading. Non-defaulted fields must not be entered and defaulted fields must be left as defaulted. The SUST field, which is used to deny termination, will be assigned a value of "Y".

If the B2 SERV field is "X25", then the B2-channel is used for Permanent Packet service. Thus, the customer must visit many of the fields under the PPB2 heading. The TN field and/or the MLHG and TERM field combination must be entered. The LCC, RAX, ISCN, RATE, N2, T1, T3, and WNDSZ fields must be entered. The D SERV field must be "SX" or "ADMIN".

The LCC and RAX combination assigned to a Permanent Packet B-channel must have an associated DIGIT ANALYSIS SELECTOR entered on a DAS form (5300-1 Record), which in turn has associated PREFIX / FEATURE DIT(s) entered on PDIT form(s) (5300-2 Record), or LOCAL DIT(s) entered on LDIT form(s) (5300-3 Record). If the TYPE OF CI CALL is entered on the PDIT/LDIT form(s), it must be set to either "PSNCI" (Packet Switching Non-Carrier), or "PSCAR" (Packet Switching Carrier).

The fields related to the PERMANENT PACKET B1 and PERMANENT PACKET B2 sections are identical. Thus, the instructions for the two sections are merged into a common set. The instructions assume that the requisite to be in either section (B1 SERV/B2 SERV is "X25) has been met.

3.1 TN

Description: Enter the Packet TN of the DSL (if it has one).
Valid Entries:

For 5E11 and earlier: 7 digits: the first digit cannot be a 0 or 1 (the remaining 6 digits may range from 0 - 9)

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

Data Rules:

The first three digits of the TN must be defined in the OFFICE CODE field on an NOC form. If the MLHG, TERM, and H PVC LCN fields are entered, then this field must have an entry.

For 5E8 and later, when MLHG and TERM are entered, and CHL SEL is "Y" or HUNT NOTIF is "YES", then a TN must be entered in this field.

When CHL SEL is "N", this TN must be unique within the 5ESS Switch with the following exception:

- It can duplicate the CKT TN or the MLHG TN (under the CKT SWITCHING header) on a DSLUSR form for the DSL if the PPB1/PPB2 USR field is set to "Y".

When CHL SEL is "Y", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can duplicate the CKT TN or CKT MLHG TN (under the CKT SWITCHING header) on a DSLUSR form for the DSL if the PPB1/PPB2 USR field is set to "Y".
- It must equal DPKT TN or DPKT MLHG TN on a DSLUSR form for the DSL if the DPKT CHL SEL is set to "Y" and PPB1/PPB2 USR is set to "Y".
- It must equal ODB TN or ODB MLHG TN on a DSLUSR form for the DSL if the ODB CHL SEL is set to "Y" and PPB1/PPB2 USR is set to "Y".
- It must equal PPB1/PPB2 TN (on the same DSL form) if the corresponding PPB1/PPB2 CHL SEL equals "Y" and if PPB1 and PPB2 are defined for the same user or are not assigned on a DSLUSR.

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN, or member TN. Multiple TNs are defined in the TN field on a MULTITN form (5114 Record). For 5E5 and later, the TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

Multiple TNs that are defined on the MULTITN form may not be assigned to modem pools, PPB1 MLHG/TERMS, or PPB2 MLHG/TERMS.

For 5E5 and later, if a value is entered in this field, the LCC and RAX combination on this form must be defined on an LCC form (5306 Record) with a CLASS OF SERVICE of "ISDN", and a TERMINATING TREATMENT of "INDIV".

If a value is not entered in this field, then the LCC and RAX combination on this form must be defined on an LCC form (5306 Record) with a CLASS OF SERVICE of "ISDN".

For 5E12 and later, when the DSL forms have PPB1 TN and PPB2 TN entered, and PPB1 CHL SEL or PPB2 CHL SEL equal "N", PPB1 TN must not be equal to PPB2 TN.

For 5E12 and later, if the first 3 digits of the 7-digit PPB1 TNs on the DSL 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, the 7-digit PPB1 TN(s) must be entered as a 10-digit PPB1 TN(s).

For 5E12 and later, if the first 3 digits of the 7-digit PPB2 TNs on the DSL 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, the

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7-digit PPB2 TN(s) must be entered as a 10-digit PPB2 TN(s).

For 5E12 and later, the Permanent Packet TN(s) on the DSL form must have an NXX or NPA/NXX combination that is an OFFICE CODE or NPA/OFFICE CODE combination defined on a NOC form.

3.2 MLHG

Description: Enter the MLHG Number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

The entry must be defined in the MLHG field on an MLHG form. The associated MLHGFD form must have the HUNT TYPE field set to "PSUCD".

If the MLHG field is entered, then the TERM field must be entered, and if the TERM field is entered, the MLHG field must be entered.

For 5E5 and later, if the LOCAL SM field on the defining MLHG form is entered, then the SM portion (first three digits) of the DSL OE on this form must equal the value in the LOCAL SM field.

For 5E7 and later, if PPB1 MLHG is entered then PPB1 L IN LCN or PPB1 L 2W LCN must be entered. Also, if PPB2 MLHG is entered then PPB2 L IN LCN or PPB2 L 2W LCN must be entered.

For 5E8 and later, if MLHG/TERM are not entered, then HUNT NOTIF, BUSY LIMIT, and LNR HNT TN must not be entered, and HUNT DEACT must be "N".

PPB1 MLHG and PPB2 MLHG on the DSL form and DPKT MLHG (Non-Modem Pooling) and ODB MLHG on the DSLUSR form and PKT MLHG on the XAT form may be the same. The corresponding TERM entries must be different if their CHL SEL fields are "N". If the corresponding CHL SEL fields are "Y", and the channels are defined for the same user, then the TERM entries must be the same. (CHL SEL is not valid with XAT.)

3.3 TERM

Description: Enter the MLHG Terminal Number.
Valid Entries: 1 - 2015

Data Rules:

If the MLHG and TERM fields are entered, then the ICB (Incoming Calls Barred) field must be set to "N".

For 5E8 and later, if the PPB1 MLHG equals the PPB2 MLHG and either PPB1 CHL SEL or PPB2 CHL SEL equals "N", then the PPB1 TERM must not equal the PPB2 TERM. If the PPB1 MLHG equals the PPB2 MLHG, both CHL SEL fields equal "Y", and both channels are defined for the same user, then PPB1 TERM must equal PPB2 TERM.

For 5E6 and later, if an MLHG and TERM combination is entered, then the LCC and RAX combination on this form must be defined on an LCC form with a CLASS OF SERVICE of "ISDN".

If an MLHG and TERM combination is entered, then the TN field must be entered on this form, or the LISTED TN field on the associated MLHG form must be entered.

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3.4 LCC

Description: Enter a 3-character Packet Line Class Code.
Valid Entries: Each of the three characters may be a number or letter.

Data Rules:

The entry must be defined in the LINE CLASS CODE field of an LCC form.

3.5 RAX

Description: Enter a Packet Rate Area.

The RAX and LCC are used to determine the Digit Analysis Selector and Screening Index used for packet calls originating from this device and the terminating treatment of packet calls to this device.
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).

3.6 CODE RESTRICT

Description: This field represents the Code Restriction used for a packet switching DSL (Digital Subscriber Line) which is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

3.7 LNR HNT TN

Description: Enter the Linear Hunt TN of a Multi-Line Hunt Group member. This LNR HNT TN serves as a linear entry point to the MLHG. Hunting always begins at the member associated with the called TN; it hunts sequentially through the members of the hunt group until either it reaches a non-busy member, or it reaches the last member and all hunted members were hunt-busy.

If the member TN is on intercept, the LNR HNT TN will not be on intercept.

Software Release: 5E8 and later
Valid Entries:
For 5E11 and earlier: 7 digits: the first digit cannot be a 0 or 1 (the remaining 6 digits may range from 0 - 9)
For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If LNR HNT TN is entered, the following must be true:

- MLHG and TERM must be entered.

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- The first three digits of LNR HNT TN must be defined in the OFFICE CODE field on the NOC form.
- For any "PSUCD" MLHGs, if LNR HNT TN for member 1 is not entered, then no other members can have LNR HNT TN entered.
- LNR HNT TN must be unique within the 5ESS Switch with the following exceptions:
  - If PPB1/PPB2 CHL SEL equals "Y", then it must equal DPKT LNR HNT TN on a DSLUSR form for the DSL if the DPKT CHL SEL is set to "Y" and PPB1/PPB2 USR is set to "Y".
  - If PPB1/PPB2 CHL SEL equals "Y", then it must equal ODB LNR HNT TN on a DSLUSR form for the DSL if the ODB CHL SEL is set to "Y" and PPB1/PPB2 USR is set to "Y".
  - If PPB1/PPB2 CHL SEL equals "Y", then it must equal PPB1/PPB2 LNR HNT TN (on the same DSL form) if PPB1 and PPB2 are defined for the same user, or if neither is assigned to any user.

For 5E12 and later, when the DSL forms have B1 SERV set to "X25", PPB1 LNR HNT TN entered, and PPB1 TN and/or PPB2 TN entered, PPB1 LNR HNT TN must not be equal to PPB1 TN or PPB2 TN.

For 5E12 and later, when the DSL forms have B2 SERV set to "X25", PPB2 LNR HNT TN entered, and PPB1 TN and/or PPB2 TN entered, PPB2 LNR HNT TN must not be equal to PPB1 TN or PPB2 TN.

For 5E12 and later, when the DSL forms have PPB1 LNR HNT TN and PPB2 LNR HNT TN entered, and PPB1 CHL SEL or PPB2 CHL SEL equal "N", PPB1 LNR HNT TN must not be equal to PPB2 LNR HNT TN.

For 5E12 and later, if the first 3 digits of the 7-digit PPB1 LNR HNT TNs on the DSL 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, the following 7-digit PPB1 LNR HNT TN(s) must be entered as a 10-digit PPB1 LNR HNT TN(s).

For 5E12 and later, if the first 3 digits of the 7-digit PPB2 LNR HNT TNs on the DSL 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, the 7-digit PPB2 LNR HNT TN(s) must be entered as a 10-digit PPB2 LNR HNT TN(s).

For 5E12 and later, when the PPB1/PPB2 LNR HNT TN(s) on the DSL form have an NXX and/or NPA/NXX combination assigned, there must be a matching OFFICE CODE or NPA/OFFICE CODE defined on a NOC form.

3.8 HUNT DEACT

Description: Should the MLHG member be deactivated (marked busy) for hunted calls? A value of "N" indicates the Multi-Line Hunt Group member is active (available) for hunting.

The deactive/active status has no effect on call originations or on non-hunted calls made to the MLHG member using its individual TN.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If MLHG and TERM are not entered, HUNT DEACT must be "N".

3.9 CHL SEL

Description: Is the TN a Common TN that is shared by at least two channels on the DSL? When a call terminates to a Common TN, an Active Channel Selection algorithm is performed to determine the channel on which the call will be offered.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PPB1 CHL SEL and PPB2 CHL SEL are both "Y" and PPB1 and PPB2 are defined for the same user, then the following PPB1 and PPB2 fields must be set the same: TN, MLHG, TERM, LCC, RAX, first three digits of ISCN, LNR HNT TN, HUNT DEACT, BILL TN, BUSY LIMIT, ICB, OCB, PMDR GRP, PMDR ACT, SEND PKTSZ, SEND PKTWD, RCV PKTSZ, RCV PKTWD, FCPN, TPCN, REV CHARGE, LCP, IECPDNIC, FSA, IA, PB GRP, X25VER, CALL TN, CALL ID, DIS SCR, ICP, HUNT NOTIF, SUST, CUGPX, CUGOA, and CUGIA.

If CHL SEL is "Y", H PVC LCN must not be entered.

At least two channels (PPB1 CHL SEL, PPB2 CHL SEL, ODB CHL SEL, or DPKT CHL SEL) of the DSL for a user must have Channel Selection set to "Y", or none of the channels may be set.

If DPKT CHL SEL (DSLUSR form), ODB CHL SEL (DSLUSR form), PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) are set to "Y" for a user of the DSL, then the following must be true for that user:

- The following parameters associated with CHL SEL equal to "Y" must be the same: MLHG, TERM, LNR HNT TN, LCC, RAX, HUNT DEACT, first three digits of ISCN, BILL TN, BUSY LIMIT, ICB, OCB, PMDR GRP, PMDR ACT, FCPN, TPCN, REV CHARGE, LCP, IECPDNIC, FSA, IA, PB GRP, X25VER, ICP, HUNT NOTIF, SUST, CUGPX, CUGOA, and CUGIA.
- If MLHG and TERM are entered, all the associated Channel Types with CHL SEL set to "Y" must have the same DPKT MLHG TN, ODB MLHG TN, PPB1 TN and/or PPB2 TN.
- If MLHG and TERM are not entered, all the associated Channel Types with CHL SEL set to "Y" must have the same DPKT TN, ODB TN, PPB1 TN and/or PPB2 TN.
- All the associated B-Channel Types with CHL SEL set to "Y" must have the same SEND PKTSZ, SEND PKTWD, RCV PKTSZ, and RCV PKTWD.
- If PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) equals "Y", and there exists a DSLUSR form for the DSL where DPKT NOTIF and/or ODB NOTIF is set to "COND" and PPB1 USR and/or PPB2 USR equals "Y", then of all the associated Channel Types with CHL SEL set to "Y" at least one Channel must have 2W LCN or IN LCN entered.
- If PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) equals "Y" and there exists a DSLUSR form for the DSL where DPKT CHL SEL or ODB CHL SEL equals "Y", and PPB1 USR and/or PPB2 USR equals "Y", then the appropriate PPB1 and/or PPB2 fields CALL TN, CALL ID, and DIS SCR (DSL form) must equal "N".

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- If MLHG and TERM are entered then of all the associated packet services (PPB1, PPB2, DPKT, ODB) with CHL SEL set to "Y" for this user, at least one packet service must have 2W LCN or IN LCN entered.

3.10 ISCN

Description: Enter the B-channel Integrated Services Channel Number, on the PSU, which is conjoined to the DSL.

The DSL is connected, via a PIDB to a PSU.

INTEGRATED SERVICES CHANNEL NUMBER

Equipment		Format	Valid Entries
Shelf	—	X	0-4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	0-127

Data Rules:

For the shelf, enter the PSU PH shelf number. The SHELF must correspond to a PSU SHELF field on an EQPSU form, where the value in the SWITCHING MODULE field is the SM portion (first three digits) of the DSL OE, which has a SHLF SIDE 0/1 with EQST set to "O".

For CHL, enter the PSU PH number on the PSU shelf. PHs are assigned, as a component of an ISCN, on AMLBDSL forms (5447 Record), DSL forms (5907 Record), DSLAP forms (5963 Record), DSLUSR forms (5908 Record), OSPSDSL forms (5411 Record), PSISM forms (5920 Record), and TRUNK forms (5204 Record). PHs are also assigned in the CHL GRP field on ODBRES forms (5906 Record). The total quantity of PHs assigned on these forms must not exceed the quantity of PHs defined for the given SWITCHING MODULE and PSU SHELF on an EQPSUPH form (5742 Record) with EQST set to "O". The CHL GRP is a "logical" value. The number that is assigned in this field will not always be the number of the PH that is used. The quantity of PHs defined on the EQPSUPH form relative to the quantity of PHs assigned on the aforementioned forms is critical; the actual values are not of importance.

Each ISCN entry (D/PPB1/PPB2 ISCN on the DSL 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.

For CHL, enter the PSU PH member number. A B-channel requires four (4) PH channels for service.

The ISCN must be a unique value within an SM.

Any combination of the SHELF and CHL GRP entries must be defined on an EQPSUPH form.

This field cannot have the same SHELF and CHL GRP, within the same SM, as an ISCN from a PSISM form, or a TRUNK form with an associated TRKCLS of "PACKET", or "X75P", defined on a TKGRP form.

Each SM can have up to 5 PSU Shelfs. Each Shelf can have up to 16 Protocol Handlers (PH). Shelfs and PHs are defined by the first 3 digits of the ISCN field. Each PH can be assigned up to 32 time slots. up to 16 Protocol Handlers (PH).

For 5E9(1) and later:
The first three digits of OE, the first digit of ISCN, and the second two digits of ISCN must be defined in the SM, PSU SHELF, and GRP fields on a PSUGP form where PH TYPE is set to "PH3".

The following D ISCN and/or PPB1/PPB2 ISCN are assigned on with an originating equipment type of "G".

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Each ISCN or SHELF/CHL GRP/CHL combination must have a proper Packet Switching Unit shelf assigned on the EQIDCU form. The PSU shelf specified by the first digit of the ISCN on either the DSL form must be defined on the EQIDCU form with a PIDB TYPE of "PSU".

If ISCNs are assigned, then a PIDB with a PIDB TYPE of "PSU" must be assigned on the same Packet Switching Unit shelf on the EQISLU form as the PSU shelf specified by the first digit of the ISCN.

For 5E10 and later, the following forms

AMLBDSL
DSL
MISLINK
DSLAP
DSLUSR
ODBRES
OSPSDSL
RTERM
XAT

and 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 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",
"X75",
"X75P",
"PKTPIPE",
"SPCHNDLR" defined on the TKGRP form.

For 5E11 and later, PPB1 ISCN must be entered for the existing form tuple in Large Terminal Growth. (AILA (Automatic ISDN Line Assignment) feature existing form tuples in Large Terminal Growth should still keep the old checks whether the AILA feature is active or not). For more information on this feature, see Division 2, Section 1BO.

When PPB1 ISCN is not entered, PPB1 DPIDB, PPB1 TS, PPB1 DS1 and PPB1 DS1 TS must not be entered.

For 5E11 and later, PPB2 ISCN must be entered for the existing form tuple in Large Terminal Growth. (Automatic ISDN Line Assignment feature existing form tuples in Large Terminal Growth should still keep the old checks whether the AILA feature is active or not.

When PPB2 ISCN is not entered, PPB2 DPIDB, PPB2 TS, PPB2 DS1 and PPB2 DS1 TS must not be entered.

When ACT on FOSYS form (5713-2 Record), where FID is 695, is set to "Y" (i.e., the AILA feature is active) and ODB TN, ODB MLHG and ODB TERM are not entered on the corresponding DSLUSR form, the D ISCN field on the matching DSL form must not be entered.

When ACT on FOSYS form (5713-2 Record), where FID is 695, is set to "N" (i.e., the AILA feature is not active) and ODB TN, ODB MLHG and ODB TERM are not entered on the corresponding DSLUSR form, the D ISCN field on the matching DSL form must be entered.

3.11 RATE

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Description: Enter the DSL baud rate.
Valid Entries: 56KB, 64KB

3.12 N2

Description: Enter the N2 value.

The N2 value, per CCITT specifications, is the maximum number of attempts made by the CPE device or the PH to successfully transmit a frame at the LAPB (Link Access Procedure B) Level 2. Following N2 failures, the PH attempts to restore the link, which is either an SVC or a PVC. If the PH cannot restore the link, the PH will clear the SVCs and reset the PVCs.

Refer to Section 1.2 for background information.
Valid Entries: 2 - 15

3.13 T1

Description: Enter the T1 timer.

The T1 timer, per CCITT specifications, is the period of time before retransmission of a frame may be initiated at the LAPB Level 2.

Refer to Section 1.2 for background information.
Valid Entries: 2 - 200, even only, in units of a tenth of a second.

3.14 T3

Description: Enter the T3 timer.

The T3 timer, per CCITT specifications, is the period of time at which an idle channel is considered to have been in the idle state excessively long. The indication of this situation is passed to the PH to assure that the channel is idle and ready to be set for operation once again. The duration of the T3 timer must be greater than one tenth of the duration of the T1 timer to ensure that retransmission efforts are not aborted.

Refer to Section 1.2 for background information.
Valid Entries: 3 - 30, in units of a full second.

3.15 WNDSZ

Description: Enter the WNDSZ value.

This value, named "I frames k" in CCITT terminology, is the maximum quantity of sequentially numbered LAPB Level 2 I-frames (Information) which the CPE device or PH can have unacknowledged at any time. I-frames, which are data packets, are number 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. The possible remainders when dividing by 8 are 0 through 7. Hence, every I-frame has a number between 0 and 7.

Refer to Section 1.2 for background information.
Valid Entries: 0 - 7

3.16 DPIDB

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Description: Enter the number of the PIDB which links the B-channel of the DSL resident on the unit (ISLU, IDCU, AIU) to the SM's PSU.

NOTE: See "Note:" in the D RELPIDB field above.

Valid DPIDB Entries

Entry	Definition
1 - 5	Software Rlease: 5E12 and later: For OE type "E".
2 - 11	Software Release: 5E8 - 5E9(2) For OE type "I" Software Release: 5E10 and later. For OE type "I" or "K".
12 - 22	Software Release: 5E8 - 5E9(2) For OE type "G" or "M". Software Release: 5E10 and later. For OE type "G".

Data Rules:

If this field is entered, then the TS field must be entered.

This field must not be entered if the DSL is resident on a RISLU.

For ISLU, if this field is entered, the value must not equal the value expressed by the fifth and sixth digits of the DSL OE, or that value plus 16.

If this field is entered, then the DPIDB field must be entered.

B-channel Time Slots, for a given combination of SM, ISLU, and PIDB, may not be duplicated on other DSL forms or AMLBDSL forms.

If the DSL is resident on a RISLU, this field must not be entered.

For 5E9(1) and later, the combination of SM, IDCU, DPIDB and TIMESLOT must be unique. DSLs cannot be assigned duplicate time slots on the following forms:

DSL form - D-channel and B-channel time slots
MISLINK form - D-channel time slots
RTERM form - EOC and TMC PRI/NPRI
time slots

For 5E10 and later:

For manually assigned D RELPIDBs and/or PPB1/PPB2 DPIDBs, with DSL OE originating equipment type of "G":

- PIDB must have proper Packet Switching Unit shelf assigned with matched PIDB NO. on the EQIDCU form. The PSU shelf, which is specified by the first digit of the D ISCN and/or PPB1/PPB2 ISCN on the DSL forms, must be defined on the EQIDCU form with a PIDB TYPE of "PSU".
- must have a corresponding PIDB NO. with a PIDB TYPE of "PSU" assigned on the EQIDCU form.

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3.17 TS

Description: Enter the B-channel Time Slot.

NOTE: See "Note:" in the D RELPIDB field above.
Valid Entries: 0 - 31

3.18 DS1

Description: Enter the IDCU DS1 which carries the D-channel time slot.

For IDCU (DSL OE "M" or "G"), the IDCU DS1 selection is optional, if not populated by the customer, ODA will select a DS1. If populated by the customer the D RELPIDB, D TIMESLOT, QTR TS and DS1 TS must be populated.
Valid Entries: 1 - 28

Data Rules:

If entered, this DS1 must be assigned as an IFAC row in the RT IFAC TERMINATION list on the RTERM form with SM, UNIT NUMBER and RTEX matching the corresponding values in the DSL OE.

For ISLU (DSL OE is set to "I", the DS1 field must be blank.

3.19 DS1 TS

Description: Enter the IDCU DS1 time slot.

For IDCU (DSL OE "M" or "G"), the IDCU DS1 TS selection is optional. If not populated by the customer, ODA will populated it. If populated by the customer, the D RELPIDB, D TIMESLOT, QTR TS and DS1 must be populated. This DS1 TS should be one of the time slots on the selected DS1. For ISLU (DSL OE is set to "I"), the DS1 TS field must be blank.
Valid Entries: 0 - 23, or blank

Data Rules:

The combination of SM, IDCU, IFAC and TIMESLOT must be unique. The following IDCU remote terminal ports cannot be assigned duplicate IFAC (DS1) time slots:

IFAC TIMESLOTS

Form	Timeslots
DSL	D-channel (DS1 and DS1 TS) and B-channel (PPB1/2 DS1 and DS1 TS) time slots
MISLINK	D-channel time slots (DS1 and DS1 TS)
NAILUP	nailup/hairpin time slots: C PATH DS1 and NC PATH DS1 for the IFACs. C PATH1 DS0
RTERM	Fixed time slots for the primary and secondary TMC and EOC are assigned by ODA on the primary IFAC (the 1st IFAC in the RT TERM/IFAC list) and backup IFAC (EOC/TMC BKUP TERM) for the RT.

The fixed time slots are TS 11 for EOC and TS 23 for TMC. If ZCS (SUP METHOD is "303ZC" on the RTERM form) signaling is used by the IFAC, additional guard channels (TS) are required; they are TS 10 for EOC and TS 0 and 22 for TMC. ISDN applications (DSL and MISLINK form) are not allowed when ZCS signaling is used.

3.20 NEW TN

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This is a Recent Change field added in 5E7.

3.21 BILL TN

Description: Enter a 7 or 10-digit TN to be billed if the TN to be billed is different from the TN on this form.

Enter a valid 7-digit TN if calls are to be billed to a TN within the local office.

Enter a valid 10-digit number if calls are to be billed to a TN outside the local office.

Valid BILL TN Entries

Entry	Definition
NXXXXXX	NXX is a valid office code defined in the OFFICE CODE field on an NOC form.
NPANXXXXXX	Any 10-digit number is acceptable; however, normal expected values are valid NPA and NXX codes.
ZXXXXXX	Z is 0 or 1. This is normally used for OUTWATS billing purposes. The first three digits must be defined in the OFFICE CODE field on an NOC form.

Data Rules:

For 5E12 and later, if the BILL TN(s) on the DSL form have an NXX or NPA/NXX combination without a matching OFFICE CODE and/or NPA/OFFICE CODE combination defined on the NOC form of this office, then this condition is valid only if you allow billing to NXX codes served by other offices or if the first digit of the NXX code is 0 or 1 showing OUTWATS billing.

3.22 RMK

Description: This field may be used for any descriptive comment.
Valid Entries: A maximum of sixteen characters may be entered.

4. FORM ENTRIES - 5907-3, 6 RECORDS

4.1 H PVC LCN

Description: Enter the Highest Logical Channel Number that can be assigned to a Permanent Virtual Circuit.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If the H PVC LCN field is entered, then a corresponding PSPVC form (5923 Record) must be entered with a value entered in the LCN field which is less than or equal to the value entered in this field.

4.2 L IN LCN

Description: Enter the Lowest Incoming Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If the H PVC LCN field is entered, and this field is entered, then the value in this field must be one greater than

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the value in the H PVC LCN field.

If this field is entered, then the H IN LCN field must be entered in order to indicate the range of incoming LCNs.

If the H PVC LCN field is not entered, and this field is entered, then the value in this field must equal 1.

If MLHG and TERM are entered and CHL SEL equals "N", L IN LCN or L 2W LCN must be entered.

4.3 H IN LCN

Description: Enter the Highest Incoming Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If this field is entered, then the L IN LCN field must be entered in order to indicate the range of incoming LCNs.

If the L IN LCN field is entered, then the value in the H IN LCN field must be greater than or equal to the value in the L IN LCN field.

4.4 L 2W LCN

Description: Enter the Lowest Two-Way Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If the H IN LCN field is entered, and this field is entered, then the value in this field must be greater than the value in the H IN LCN field. Thus, there may be a gap between the Incoming LCN range and the Two-way LCN range.

If the H IN LCN field is not entered, and the H PVC LCN field is entered and this field is entered, then the this field must have a value greater than the H PVC LCN value.

If this field is entered, then the H 2W LCN field must be entered in order to indicate the range of two-way LCNs.

If MLHG and TERM are entered and CHL SEL equals "N", L IN LCN or L 2W LCN must be entered.

4.5 H 2W LCN

Description: Enter the Highest Two-Way Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If this field is entered, then the L 2W LCN field must be entered in order to indicate the range of two-way

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LCNs.

If the L 2W LCN field is entered, then the value in this field must be greater than or equal to the value in the L 2W LCN field.

4.6 L OUT LCN

Description: Enter the Lowest Outgoing Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If this field is entered, then the H OUT LCN field must be entered in order to indicate the range of outgoing LCNs.

If the H 2W LCN field is entered, and this field is entered, then the value entered in this field must be greater than the value entered in the H 2W LCN field. Thus, there may be a gap between the incoming Two-way LCN range and the Outgoing LCN range.

If this field and the H PVC LCN field are entered, and the H IN LCN and the H 2W LCN fields are not entered, then the value entered in this field must be greater than the value entered in the H PVC LCN field.

4.7 H OUT LCN

Description: Enter the Highest Outgoing Logical Channel Number.

Refer to Section 1.3 for background information.
Valid Entries: 1 - 127

Data Rules:

If this field is entered, then the L OUT LCN field must be entered in order to indicate the range of outgoing LCNs.

If the L OUT LCN field is entered, then the value entered in this field must be greater than or equal to the value entered in the L OUT LCN field.

4.8 BUSY LIMIT

Description: Enter the busy limit for this MLHG terminal. The busy limit represents the maximum number of concurrent incoming virtual calls an MLHG member may receive before the member is marked busy for hunting purposes. Calls to non-hunt DNs are included in the incoming call count but are not restricted by the busy limit.

Software Release: 5E8 and later
Valid Entries:
If CHL SEL is "Y": 1 - 269
If CHL SEL is "N": 1 - 127

Data Rules:

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This parameter is applicable to MLHG members only. If MLHG and TERM are not entered, BUSY LIMIT must not be entered.

If MLHG and TERM are entered, BUSY LIMIT should be set according to the rules that follow. When BUSY LIMIT is not entered, the maximum value for the applicable rule will be assigned.

- If the DSL is on a PH3 and CHL SEL equals "N", BUSY LIMIT must be less than or equal to the sum of IN LCNs plus 2W LCNs.
- If CHL SEL equals "Y", BUSY LIMIT must be less than or equal to the sum of IN LCNs and 2W LCNs of all associated packet services (PPB1, PPB2, DPKT, and ODB) with CHL SEL set to "Y" for this user.

4.9 ICB

Description: Is the ICB feature desired?

The ICB feature prevents the user from receiving incoming virtual calls. The user may still originate outgoing virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E9(1) and earlier, if this field is "Y", then the L IN LCN and H IN LCN fields must not be entered.

4.10 OCB

Description: Is the OCB (Outgoing Calls Barred) feature desired?

The OCB feature prevents the user from originating outgoing virtual calls. The user may still receive incoming virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E9(1) and earlier, if this field is "Y", then the L OUT LCN and H OUT LCN fields must not be entered.

If the ICB field is "N", and the OCB field is "Y", then the L IN LCN and H IN LCN fields must be entered to provide the incoming data transmission.

If the ICB field is "Y", and the OCB field is "N", then the L OUT LCN and H OUT LCN fields must be entered to provide the outgoing data transmission.

4.11 PMDR GRP

Description: Enter the Packet MDR (Message Detail Recording) group name associated with the TN for PPB1 or PPB2.

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Software Release: 5E7 and later
Valid Entries: 1 - 8 characters

Data Rules:

When PMDR GRP is entered, PMDR ACT must be entered. When PMDR GRP is not entered, PMDR ACT must not be entered.

If B1 SERV/B2 SERV is not entered or is not "X25", PMDR GRP and PMDR ACT must not be entered.

4.12 PMDR ACT

Description: Is the Packet MDR Group associated with the PPB1 or PPB2 TN activated? This field does not have a default value.

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

When PMDR GRP is entered, PMDR ACT must be entered. When PMDR GRP is not entered, PMDR ACT must not be entered.

If B1 SERV/B2 SERV is not entered or is not "X25", PMDR GRP and PMDR ACT must not be entered.

4.13 SEND TPC

Description: The Send Throughput Class is the bits per second that a virtual call sends data.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200,
2400, 4800, 9600, or 19200

4.14 SEND PKTSZ

Description: The Send Packet Size is the maximum number of bytes of data in a packet (excluding control type information) that can be sent.
Default: 128
Valid Entries: 128, 256

Data Rules:

If the FCPN (Flow Control Parameter Negotiation) field is "N", then this field must be 128. Refer to the description of the FCPN field.

4.15 SEND PKTWD

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a sending basis, at any time.
Default: 2
Valid Entries: 1 - 7

Data Rules:

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For 5E9(1) and later, if PPB1/PPB2 SEND PKTWD is not 2, PPB1/PPB2 FCPN must be "Y".

4.16 SEND MCT

Description: Enter the maximum combined throughput in kilobits per second for the sending direction. When the sum of the sending throughput of virtual calls exceeds the SEND MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

4.17 RCV TPC

Description: The Receive Throughput Class is the bits per second that a virtual call receives data.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200,
2400, 4800, 9600, or 19200

4.18 RCV PKTSZ

Description: The Receive Packet Size is the maximum number of bytes of data in a packet (excluding control type information) that can be received.
Default: 128
Valid Entries: 128, 256

Data Rules:

If the FCPN is "N", then this field must be 128. Refer to the description of the FCPN field.

4.19 RCV PKTWD

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a receiving basis, at any time.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if PPB1/PPB2 RCV PKTWD is not 2, PPB1/PPB2 FCPN must be "Y".

4.20 RCV MCT

Description: Enter the maximum combined throughput in kilobits per second for the receiving direction. When the sum of the receiving throughput of virtual calls exceeds the RCV MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

4.21 FCPN

Description: Is Flow Control Parameter Negotiation desired?

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The transmission of data between a CPE device and a PH is controlled separately for each direction and is controlled by the receiver of the data. This is, in CCITT nomenclature, referred to as flow control. An additional aspect of flow control is the ability of the PH to limit the rate at which it accepts packets, when it recognizes network congestion. FCPN allows the PH and the CPE device to negotiate the Window Size and the Packet Size (128 or 256 bytes) on a per-call basis.

Required Field.
Default: N
Valid Entries: Y, N

4.22 TPCN

Description: Is TPCN (Throughput Class Negotiation) desired?

TPCN allows the sending and receiving entities to negotiate the bits per second to be transmitted in either direction, on a per-call basis. Both the sending and receiving party must subscribe to this service for the negotiation to transpire.

Required Field.
Default: N
Valid Entries: Y, N

4.23 REV CHARGE

Description: Will the called CPE device accept the charge for a call from a Protocol Handler?

Required Field.
Default: N
Valid Entries: Y, N

5. FORM ENTRIES - 5907-4, 7 RECORDS

5.1 LCP

Description: Will Local Charge Prevention be activated? When LCP is "Y", all the X.25 outgoing calls from this user will be Reverse Charged and any X.25 incoming calls that contain Reverse Charge will be cleared.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

LCP is not allowed with Reverse Charge. If LCP is "Y", then REV CHARGE must be "N".

5.2 IECPDNIC

Description: Enter a 4-digit Data Network ID Code for Interexchange Carrier Pre-select.
Valid Entries: 0001 - 9999

Data Rules:

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This entry must be defined in the DNIC field on a PSDNICRI form (5921 Record).

5.3 FSA

Description: Is FSA (Fast Select Acceptance) desired?

The Fast Select feature allows a CPE (customer premise equipment) device to receive up to 128 bytes of user data with call setup and clearing packets.

Required Field.
Default: N
Valid Entries: Y, N

5.4 IA

Description: Is IA (Intercom Addressing) desired?

ISDN Intercom Addressing permits the ISDN user to access other users on the 5ESS Switch with a 4-digit or 7-digit number.

Required Field.
Default: N
Valid Entries: Y, N

5.5 PB GRP

Description: Enter the PBG (Packet Business Group). Do not enter a value if this channel is not a member of a PBG.

The Packet Switching Data Business Group Service feature enables the customer to set up and administer intra-switch PBGs by assigning a PBG number to each X.25 termination to distinguish between intra-PBG and other calls on the AMA record.

An MLHG will be assigned to a PBG by associating the PBG with an MLHG on an MLHG form. The DSL form should only be used to assign a PBG if the TN or MLHG member has an associated TN.
Valid Entries: 1 - 100

Data Rules:

If this field is entered, then the TN field must be entered.

5.6 X25VER

Description: Enter the X.25 CCITT version supported for this DTE (Data Terminating Equipment).

Software Release: 5E6 and later
Required Field.
Default: 1984
Valid Entries: 1980, 1984

5.7 CALL TN

Description: For this DTE, will the Calling TN be used as the Billing TN in the AMA record? The Calling TN is received in the Call Request Packet. For more information see Division 2, Section 5B, "Enhancements To

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X.25 Packet Switching For Trusted DTE".

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

CALL TN must be "N" if B1 SERV/B2 SERV is unknown or if B1 SERV/B2 SERV is not "X25".

5.8 CALL ID

Description: Should the Calling ID be allowed to be received from the DTE as a Lucent Technologies Defined Facility Marker? If "Y" is entered , the Call ID received in the call request packet will be used as the Call ID for the call. If "N" is entered, the 5ESS Switch generates a Call ID for the call.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

CALL ID must be "N" if B1 SERV/B2 SERV is unknown or if B1 SERV/B2 SERV is not "X25".

5.9 DIS SCR

Description: Will the Directory Number Screening Indicator be disabled? The DN Screening Indicator checks the Calling TN received in the Call Request Packet for the correct 11-digit format. With the Trusted DTE feature enabled, it is assumed that the calling DTE has already screened the Calling TN.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

DIS SCR must be "N" if B1 SERV/B2 SERV is unknown or if B1 SERV/B2 SERV is not "X25".

5.10 ICP

Description: Are originating or terminating packet calls denied? Intercept, in the packet-switched world, is a packet message denying service.

Required Field.
Default: N
Valid Entries: Y, N

5.11 HUNT NOTIF

Description: Indicate the Hunting Notification procedure to be used for processing an X.25 CLAMN (Called Line Address Modified Notification) facility and a modified address for this Multi-Line Hunt Group member.

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The X.25 CLAMN feature allows the terminating CPE or switch to return the X.25 CLAMN facility, along with a modified Called Address field containing the non-hunt DN for the end-point, to the calling party. When a call is offered to a packet-mode hunt terminal as part of hunting, CLAMN signaling is returned to the calling party to indicate that a hunt was performed.

If HUNT NOTIF is blank, the CLAMN feature is not applicable.

Software Release: 5E8 and later
Valid Entries:

Valid HUNT NOTIF Entries

Entry	Definition
YES	The switch initiates CLAMN procedures when the terminating DTE does not. If neither the CLAMN nor the modified address is present, the switch will insert the CLAMN and non-hunt telephone number into the X.25 call request packet and allow the X.25 call to proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
NO	The switch does not initiate CLAMN procedures. If neither the CLAMN facility nor the modified address is present, or if both are present, the X.25 call will proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
OLD	The X.25 CLAMN procedure that existed prior to the 5E8 Software Release is used.

Data Rules:

This parameter is applicable to MLHG members only. If MLHG and TERM are not entered, HUNT NOTIF must not be entered.

If MLHG and TERM are entered, HUNT NOTIF must be entered.

If HUNT NOTIF is "YES", TN must be entered.

5.12 SUST

Description: Is packet termination denied?

Required Field.
Default: N
Valid Entries: Y, N

5.13 CUGPX

Description: Enter the Preferential Customer CUG Index.

Refer to Closed User Groups description in Section 1 of this form for background information.
Valid Entries: 0 - 99

Data Rules:

If a CUGPX is entered, then it must be defined in the CUG IDX field on a PSCUG form (5924 Record).

If a TN and CUGPX are entered, then a PSCUG form must exist such that the PKT TN and CUG IDX fields equal, respectively, the TN and CUGPX on this form.

If an MLHG, TERM, and CUGPX are entered, then a PSCUG form must exist such that the PKT MLHG, PKT TERM, and CUG IDX fields equal, respectively, the MLHG, TERM, and CUGPX on this form.

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5.14 CUGOA

Description: Is CUGOA (Closed User Group Outgoing Access) desired?

The CUGOA indicator permits CUG members to access CPE devices that do not belong to a CUG (e.g., public network), or CPE devices that belong to a CUG with Incoming Access.

Refer to Closed User Groups description in Section 1 of this form for background information.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGOA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

5.15 CUGIA

Description: Is CUGIA (Closed User Group Incoming Access) desired?

The CUGIA indicator permits CUG members to access CPE devices that do not belong to a CUG (e.g., public network), or CPE devices that belong to a CUG with Outgoing Access.

Refer to Closed User Groups description in Section 1 of this form for background information.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGIA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

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

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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 REL PIDB ENTRIES

```
dsl                                5ESS Switch
SCREEN 1 OF 5                OFFICE DATA ADMINISTRATION
(5907-1/2)                     DIGITAL SUBSCRIBER LINE

*1. DSL OE _ _____________     14. ACSR INH   _        26. PREX N
                               15. MDPKT      _
 4. D ISCN   _______           16. MTERM      _
#5. D SERV   ______            17. D RELPIDB  __
 6. B1 SERV  DMD               18. D TIMESLOT __
 7. B2 SERV  DMD               19. QTR TS     _
    BRI TYPE ___               20. DS1        __
 9. PM GRP   _________         21. DS1 TS     __
10. ACSR GRP _________         22. CUT NPA    ___
11. DFLT SRV ________          23. CUT DGTS   ____
12. DSL CLS  STD               24. TSTLINE    N
13. RSTR MP  _                 25. EL         N
```

```
dsl                                5ESS Switch
SCREEN 2 OF 5                OFFICE DATA ADMINISTRATION
(5907-1/2)                     DIGITAL SUBSCRIBER LINE

            PPB1                38. N2 __              48. RMK ____________________
27. TN              ___________
28. MLHG            _____                 PPB1         49. H PVC LCN ___
29. TERM            _____       39. T1      ___
30. LCC             ___         40. T3      __                    PPB1
31. RAX             ___         41. WNDSZ   _          50. L IN LCN   ___
32. CODE RESTRICT   ___         42. DPIDB   __         51. H IN LCN   ___
33. LNR HNT TN      ___________ 43. TS      __         52. L 2W LCN   ___
34. HUNT DEACT      N           44. DS1     __         53. H 2W LCN   ___
35. CHL SEL         N           45. DS1 TS  __         54. L OUT LCN  ___
36. ISCN            _______         NEW TN  ___________ 55. H OUT LCN  ___
37. RATE            _____       47. BILL TN ___________ 56. BUSY LIMIT ___
```

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```
dsl                              5ESS Switch
SCREEN 3 OF 5                OFFICE DATA ADMINISTRATION
(5907-1/2)                     DIGITAL SUBSCRIBER LINE

57. ICB N                    67. RCV PKTWD 2          77. X25VER  1984
58. OCB N                    68. RCV MCT   ___          78. CALL TN N
                             69. FCPN      N            79. CALL ID N
          PPB1                                          80. DIS SCR N
59. PMDR GRP   _________             PPB1
60. PMDR ACT   _             70. TPCN       N                PPB1
61. SEND TPC   9600          71. REV CHARGE N          81. ICP         N
62. SEND PKTSZ 128           72. LCP        N          82. HUNT NOTIF ___
63. SEND PKTWD 2             73. IECPDNIC   _____      83. SUST        N
64. SEND MCT   ___           74. FSA        N          84. CUGPX       __
65. RCV TPC    9600          75. IA         N          85. CUGOA       N
66. RCV PKTSZ  128           76. PB GRP     ___        86. CUGIA       N
```

```
dsl                              5ESS Switch
SCREEN 4 OF 5                OFFICE DATA ADMINISTRATION
(5907-1/2)                     DIGITAL SUBSCRIBER LINE

            PPB2                98. N2 __                108. RMK ____________________
87. TN             ___________
88. MLHG           _____                  PPB2                      PPB2
89. TERM           _____          99. T1      ___          109. H PVC LCN  ___
90. LCC            ___           100. T3      __           110. L IN LCN   ___
91. RAX            ___           101. WNDSZ   _            111. H IN LCN   ___
92. CODE RESTRICT  ___           102. DPIDB   __           112. L 2W LCN   ___
93. LNR HNT TN     ___________   103. TS      __           113. H 2W LCN   ___
94. HUNT DEACT     N             104. DS1     __           114. L OUT LCN  ___
95. CHL SEL        N             105. DS1 TS  __           115. H OUT LCN  ___
96. ISCN           _______            NEW TN  ___________  116. BUSY LIMIT ___
97. RATE           _____         107. BILL TN ___________  117. ICB        N
```

```
dsl                              5ESS Switch              _
SCREEN 5 OF 5                OFFICE DATA ADMINISTRATION
(5907-1/2)                     DIGITAL SUBSCRIBER LINE

118. OCB N                   128. RCV MCT ___          138. CALL TN N
                             129. FCPN    N            139. CALL ID N
          PPB2                                          140. DIS SCR N
119. PMDR GRP   _________             PPB2
120. PMDR ACT   _            130. TPCN       N                PPB2
121. SEND TPC   9600         131. REV CHARGE N         141. ICP        N
```

```
122. SEND PKTSZ 128         132. LCP        N       142. HUNT NOTIF ___
123. SEND PKTWD 2           133. IECPDNIC   _____   143. SUST       N
124. SEND MCT   ___         134. FSA        N       144. CUGPX      __
125. RCV TPC    9600        135. IA         N       145. CUGOA      N
126. RCV PKTSZ  128         136. PB GRP     ___     146. CUGIA      N
127. RCV PKTWD  2           137. X25VER     1984
```

Figure 2 SAMPLE DSL FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 1I: 5908-1/2/3/4/5/6/7/8/9/10/11/12/13 RECORD DIGITAL SUBSCRIBER LINE USER - DSLUSR

1. GENERAL

The 5908 Digital Subscriber Line User Records are available with 5E5 and later Software Releases. Refer to the Multipoint Digital Subscriber Line Feature Description (Division 2, Section 1AA) before entering these records. Note: A DSL (Digital Subscriber Line) can also be referred to as a BRI (Basic Rate Interface).

5908 Records need not be entered when a DSL is used solely for B-channel Permanent Packet services or when a DSL is provisioned for users that will be added later.

1.1 Major Purposes of DSLUSR

The 5908 Records are used for four major purposes:

1. DSLUSR defines the associated TN(s) and status of a DSL user. The OE field on this form is the field that associates a user with a particular DSL. This DSL is defined on a DSL form (5907-1 Record) in the DSL OE field. These two fields are the only link between a DSL form and a DSLUSR form.
2. DSLUSR defines the circuit switching (voice and data) attributes of a DSL user.
3. DSLUSR defines the D-channel packet switching attributes of a DSL user.
4. DSLUSR defines the On Demand B-channel packet switching attributes of a DSL user.

1.2 Optional Keys

The DSLUSR form has nine optional keys that are grouped into six "functions" (explained below). The optional keys are:

1. CKT TN (Circuit Telephone Number)
2. DPKT TN (D-channel Packet Telephone Number)
3. ODB TN (On Demand B-channel Telephone Number)
4. CKT MLHG (Circuit Multi-Line Hunt Group Number)
5. CKT TERM (Circuit Multi-Line Hunt Group Terminal Number)
6. DPKT MLHG (D-channel Packet Multi-Line Hunt Group Number)
7. DPKT TERM (D-channel Packet Multi-Line Hunt Group Terminal Number)
8. ODB MLHG (On Demand B-channel Multi-Line Hunt Group Number). This key is available for 5E8 and later Software Releases.
9. ODB TERM (On Demand B-channel Multi-Line Hunt Group Terminal Number). This key is available for 5E8 and later Software Releases.

The combination of CKT MLHG/CKT TERM is considered one function. DPKT MLHG/DPKT TERM is

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considered one function. ODB MLHG/ODB TERM is considered one function. CKT TN, DPKT TN, and ODB TN are each considered separate functions.

At least one function must be entered for each DSL user (i.e., a CKT TN entry, a DPKT TN entry, an ODB TN entry, a CKT MLHG and a CKT TERM entry, a DPKT MLHG and a DPKT TERM entry, or an ODB MLHG and an ODB TERM entry).

Any combination of keys or functions that does not violate the following conditions is valid:

- An entry cannot be made in both the CKT TN field and the CKT MLHG and CKT TERM fields.
- An entry cannot be made in both the DPKT TN field and the DPKT MLHG and DPKT TERM fields.
- An entry cannot be made in both the ODB TN field and the ODB MLHG and ODB TERM fields.

For a given DSL, the number of DSLUSR forms with either a DPKT TN entry or a combined DPKT MLHG/DPKT TERM entry must not exceed the value entered in the MDPKT field on the DSL form. The MDPKT field indicates how many users are allowed D-channel X.25 Packet Switching service on a DSL.

1.3 Maximum Users

The (R)ISLU's ((Remote)Integrated Services Line Unit) LCEN (Line Card Equipment Number) or IDCU's (Integrated Digital Carrier Unit) ILEN (Line Equipment Number) entered in the OE field of this form directly affects the quantity of users permitted on a DSL. If the LCEN is defined on an ISLULC form with the TYPE field set to "PULC" or "ULC" (U-card), a maximum of eight active users may use the DSL. The IDCU is also restricted to a maximum of eight users to a DSL.

1.4 Modem Pool Restrictions

If a DSL form has an entry of "XMP" in the D SERV field, indicating that the DSL will be used for the Terminal Adaptor component in a Modem Pool group, then the following must be true.

- There must a DSLUSR form associated with the DSL (the OE on this form must match the DSL OE on a DSL form).
- The Pool is a Hunt Group (the only key fields defined on this form are DPKT MLHG / DPKT TERM).
- The H PVC LCN, L IN LCN, H IN LCN, L OUT LCN and H OUT LCN fields (under the D-CHANNEL PACKET SWITCHING header) must not be entered.
- The DPKT L 2W LCN and DPKT H 2W LCN fields must equal 1; this item, in conjunction with the previous item, limits the DSL to the use of a single Two-way SVC (Switched Virtual Circuit).
- The DPKT CUGPX field must be entered since access to Modem Pools, either Public or Private, must be carefully restricted; a Preferential CUG (Closed User Group) provides a secure sub-network.
- DPKT HUNT NOTIF must be blank, DPKT HUNT DEACT must be "N", DPKT NOTIF must not equal "COND", and DPKT CHL SEL must equal "N".
- For 5E9(1) and later, DPKT MLHG TN must be blank.

1.5 Shared TNs

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Shared TNs are TNs that can be assigned to multiple ISDN terminals. If a TN from the SHARED LIST on an SHTN form (5902 Record) appears in the CKT TN field of this form, then the TERM TYPE and OE fields on this form must be entered.

1.6 Duplicate Values

Duplicate values are not allowed among the DPKT MLHG field on a DSLUSR form, the ODB MLHG field on a DSLUSR form, the CKT MLHG field on a DSLUSR form, the PPB1 MLHG field on a DSL form, the PPB2 MLHG field on a DSL form, and the MLHG field on an MLHLN form (5111 Record), with the following exceptions:

- A CKT MLHG on a DSLUSR form may duplicate an MLHG on an MLHLN form, CKT TERM on the DSLUSR form and TERM on the MLHLN form are different values;
- A DPKT MLHG on a DSLUSR form may duplicate an MLHG on an MLHLN form, if DPKT TERM on a DSLUSR form and TERM on an MLHLN form are the same, as used for Modem Pooling;
- For 5E8 and later, PPB1 MLHG and PPB2 MLHG on the DSL form and DPKT MLHG (Non-Modem Pooling) and ODB MLHG on the DSLUSR form and PKT MLHG on the XAT form may be the same. The corresponding TERM entries must be different if their CHL SEL fields are "N". If the corresponding CHL SEL fields are "Y", the TERM entries must be the same. (CHL SEL is not valid with XAT.)

1.7 Closed User Groups

A CUG (Closed User Group) is a sub-network of CPE devices that can communicate with each other. A CPE device can belong to multiple CUGs. The primary purpose of a CUG is to provide security to its members, since a CUG member cannot communicate with a CPE device which is not in the same CUG. A CPE device that belongs to multiple CUGs can indicate the CUG of choice, in the call request packet or the incoming call packet, for transmitting and receiving packets, respectively. If a CUG is not specified, the Preferential CUG will be selected. Refer to the description of the CUGPX field (4.32).

A CUG with Outgoing Access allows its member CPE devices 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.

A CUG with Incoming Access allows any CUG or from CPE devices that belong to a CUG with Outgoing Access.

The CUGPX, CUGOA, and CUGIA fields in this form implement CUG access features.

1.8 CCITT Terminology

This section briefly describes the CCITT (International Telegraph and Telephone Consultative Committee) recommendation for the X.25 protocol. DTE (Data Terminal Equipment), in CCITT parlance, is equivalent to the CPE (Customer Premises Equipment) attached to the DSL. DCE (Data Circuit Equipment) is equivalent to a PH (Protocol Handler) on a PSU (Packet Switching Unit) within the 5ESS Switch.

Level 2 of the X.25 protocol is used to describe the linkage between a CPE device and the PH on the 5ESS Switch.

Level 3 of the X.25 protocol is used to describe the linkage between two CPE devices.

1.9 Figure 1 References

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The conditions that affect the LCC and RAX combinations entered on this form are contained in Figure 1.

Figure 1 also lists the CLASS OF SERVICE required on an LCC form (5306 Record) for BRCS features assigned to optional key fields on this DSLUSR form and the CLASS OF SERVICE required for assignments other than BRCS features.

1.10 Duplication of Call Appearance Assignments

CA (Call Appearance) button assignments previous to 5E9(1) could be made with the DSLUSR (using the CA and CA QTY fields) and SHTN forms (using the CA and NUM fields).

For 5E9(1) and later, several CA fields defining DNAs (Directory Number Appearances) which formerly had been manually programmed at the terminal were added to the DSLUSR, SHTN, and CAICOM forms. Button assignments now can be made with the AU DNA and AU DNA QTY, DNA and DNA QTY for DPKT, K56 DNA and K56 DNA QTY, K64 DNA and K64 DNA QTY, DNA and DNA QTY for ODB, SP DNA and SP DNA QTY fields on DSLUSR, the SP DNA and AU DNA fields on the SHTN form, as well as the CA and CA QTY fields on the CAICOM form (5984 Record).

Each CA must be unique. See Division 2, Section 1AM for more information on how to determine if call appearances are duplicated.

Duplicate button assignments are not allowed when:

- CKT TN on DSLUSR equals SHARED LIST TN on SHTN; or
- CKT MLHG and TERM on DSLUSR equals MLHG and TERM NBR (both SHARED LIST) on SHTN.

For 5E9(1) and later, duplicate button assignments are not allowed when:

- at least two of the fields CKT TN on DSLUSR, SHARED LIST TN on SHTN, or TN on CAICOM are equal;
- CKT MLHG and TERM on DSLUSR equals MLHG and TERM NBR (both SHARED LIST) on SHTN; or
- CKT MLHG TN on DSLUSR equals TN on CAICOM.

1.11 Recent Change View

The corresponding Recent Change View for this form is 23.2.

2. FORM ENTRIES, 5908-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 (*) CKT TN

Description: The Circuit Telephone Number of the DSL (if it has one).
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:

The first three digits must be defined in the OFFICE CODE field on a NOC form (5501 Record).

This field or the MLHG TN field must have an entry if the BUSY MONITOR field is "Y". BUSY MONITOR indicates that this terminal can be monitored via the Busy Lamps of an ISDN Attendant MLHG.

This field must not be entered if the B1 SERV and B2 SERV fields on the DSL form for this DSL are set to "X25". This combination indicates that both B-channels are Permanent Packet, solely used for X.25 Packet Switched Data. Thus, there can be no circuit-switched (Voice or Data) services on either B-channel.

If CKT TN has an associated CLASS OF SERVICE that is not "ISDN", all MWFD forms assigned on the LINEFA, BFG or an associated CLUSTR form must have FEATURE BUTTON, DIAL CODE OR BUTTON, and ISDN CALL PICKUP set to "N".

For 5E8 and later, the entry in the CKT TN field must be unique within the 5ESS Switch, with the exception that it may match only one of the following:

- The DPKT TN or DPKT MLHG TN entry on the same DSLUSR form, where DPKT CHL SEL is "N".
- The ODB TN or ODB MLHG TN entry on the same DSLUSR form, where ODB CHL SEL is "N".
- The PPB1 TN on the DSL form, for this DSL, where PPB1 CHL SEL is "N", if the PPB1 USR entry on this DSLUSR form is "Y".
- The PPB2 TN on the DSL form, for this DSL, where PPB2 CHL SEL is "N", if the PPB2 USR entry on this DSLUSR form is "Y".

For 5E8 and later, if no matches are made above, the entry in the CKT TN field must be unique within the 5ESS Switch, with the exception that it may match only one, two, or three of the following:

- The DPKT TN or DPKT MLHG TN entry on the same DSLUSR form, where DPKT CHL SEL is "Y".
- The ODB TN or ODB MLHG TN entry on the same DSLUSR form, where ODB CHL SEL is "Y".
- The PPB1 TN on the DSL form, for this DSL, where PPB1 CHL SEL is "Y", if the PPB1 USR entry on this DSLUSR form is "Y".
- The PPB2 TN on the DSL form, for this DSL, where PPB2 CHL SEL is "Y", if the PPB2 USR entry on this DSLUSR form is "Y".

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN or member TN. Multiple TNs are defined in the TN field on a MULTITN form (5114 Record). The TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

The CKT TN must not have an ACSR (Automatic Customer Station Rearrangement) feature assigned to it if the PPB1 USR and/or PPB2 USR fields on this form are "Y". The ACSR feature does not support Permanent Packet B-channels.

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If this field and the CKT MLHG and CKT TERM fields are not entered, then circuit switching services are not required. Therefore, under the CKT SWITCHING header, the SUST (deny termination) field will be assigned a value of "Y" and all the other fields must either not be entered or they must be left with their default values.

If this field or the combination of the CKT MLHG and CKT TERM fields are entered, then under the CKT SWITCHING header, the LCC, RAX, CSV CHL and CSD CHL fields must be entered. The LCC and RAX combination must be defined on a LCC form with a CLASS OF SERVICE of "ISDN" and a TERMINATING TREATMENT of "INDIV".

If the CKT TN has been assigned a Precedence and Preemption feature on a LINEFA form (5112 Record), a BFG form (5625 Record) or an associated CLUSTR form (5600 Record), then the Switching Module (first three digits of the OE field) must be defined on an EQIM form (5700 Record) with an entry in the CONFIGURATION field other than "BASIC". The "BASIC" SM configuration is available in 5E5 and later Software Releases. Refer to Division 8, Section 2 of this guide for a complete explanation of SM configurations. Note that SMs used for ISDN have a configuration of "LOADED".

For 5E8 and later, if the CKT TN has been assigned a Call Pickup Terminating feature on a LINEFA form (5112 Record), a BFG form (5625 Record), or an associated CLUSTR form (5600 Record), and if the feature was defined on the PUTFD form (5605-2a/b Record) with FEATURE FUNCTION set to "HDIRPUBRG", then:

- if the DSL CLS is "STD" on the corresponding DSL form, and on this DSLUSR form EKTS is blank, then CSV LIMIT must be 1;
- for all other cases, CA QTY must be 1 or not entered.

If the CKT TN is entered, neither CSV LIMIT nor EKTS is entered, and DSL CLS is "STD" on the corresponding DSL form, then this CKT TN cannot be assigned a Call Pickup Terminating feature (defined on the PUTFD form) on the LINEFA form or on an associated BFG or CLUSTR form.

For 5E10 and later:
If CKT TN is entered and has either the DFLT TN USER field set to "Y" or the DPKT FIXED TEI field entered, then the corresponding LINEFA form (DSLUSR form CKT TN matches LINEFA form TN) cannot have BRCS features assigned on the LINEFA, BFG, or CLUSTR forms which are not allowed with NIT (Non-Initializing Terminal) features. NIT BRCS features, defined on the following forms:

- ASPFD form with CONTROL set to "NESS"
- EDSFD form
- MSFD form

are not allowed. They require the use of Initializing Terminals.

For 5E12 and later, if the first 3 digits of the 7-digit CKT TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, CKT TN must be 10 digits.

For 5E12 and later, when the TN(s) on the DSLUSR form have an NXX and/or NPA/NXX combination entered, the OFFICE CODE and/or NPA/OFFICE CODE combination must be defined on a NOC form.

For 5E12 and later, if the CKT TN(s) or CKT MLHG/CKT TERM(s) are assigned to an EPO POS NUM, the CKT LC/CKT RAX values on the DSLUSR form:

- Must have a CLASS OF SERVICE of "ISDN" on the associated LCC form.

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or

- May have a CLASS OF SERVICE of "ISATND" with a TERM TYPE of "TYPED" on the DSLUSR form.

For 5E16 and later, when the CKT TN has been assigned a Direct Call Transfer to Voice Mail feature on a LINEFA form (5112 Record), a BFG form (5625 Record) or an associated CLUSTR form (5600 Record), then the CKT TN must also be defined on the DSLUSR form with a LCC/RAX value that corresponds to the "ISDN" CLASS OF SERVICE on the LCC form.

2.3 (*) DPKT TN

Description: The D-channel Packet Telephone Number of the DSL (if it has one).
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9 and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

The first three digits must be defined in the OFFICE CODE field on a NOC form.

If this field is entered, then the DPKT MLHG and DPKT TERM fields must not be entered.

If this field and the DPKT MLHG and DPKT TERM fields are not entered, then D-channel services are not required. Therefore, under the DPKT (D-CHANNEL PACKET SWITCHING) header, the SUST field (deny termination) will be assigned a value of "Y" and the other fields must either not be entered or they must be left with their default values.

If this field is entered, then the following conditions apply to fields under the DPKT (D-CHANNEL PACKET SWITCHING) header:

- The LCC and RAX fields must be entered;
- The H PVC LCN field or the combination of the L IN LCN and H IN LCN fields or the combination of the L 2W LCN and H 2W LCN fields or the combination of the L OUT LCN and H OUT LCN fields must have an entry and if they are entered, their value must be from 1 to 15. LCN (Logical Channel Number) assignment for a D-channel is explained immediately preceding the LCN fields under the DPKT (D-CHANNEL PACKET SWITCHING) header.

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN or member TN. Multiple TNs are defined in the TN field on a MULTITN form. The TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

For 5E8 and later, If DPKT TN is entered and OE is entered, DPKT NOTIF must be entered.

For 5E8 and later, when DPKT CHL SEL is "N", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.

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- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

For 5E8 and later, when DPKT CHL SEL is "Y", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.
- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.
- It must equal ODB TN if the corresponding ODB CHL SEL is set to "Y" on the same instance of the DSLUSR form.
- It must equal PPB1 TN (on the DSL form) if the corresponding PPB1 CHL SEL is set to "Y" and PPB1 USR on the DSLUSR form equals "Y".
- It must equal PPB2 TN (on the DSL form) if the corresponding PPB2 CHL SEL is set to "Y" and PPB2 USR on the DSLUSR form equals "Y".

For 5E12 and later, when the DSLUSR forms have DFLT TN USER set to "N" and either DPKT CHL SEL or ODB CHL SEL set to "N", DPKT TN, ODB TN, DPKT MLHG TN, ODB MLHG TN, DPKT LNR HNT TN, and ODB LNR HNT TN must be unique.

For 5E12 and later, when the DSLUSR forms have DFLT TN USER set to "Y" and both DPKT TN and ODB TN are entered, DPKT TN must equal ODB TN.

For 5E12 and later, when the DSLUSR forms have DPKT CHL SEL and ODB CHL SEL set to "Y", and DPKT TN and/or ODB TN are entered, DPKT TN and ODB TN must both be entered and DPKT TN must equal ODB TN.

For 5E12 and later, if the first 3 digits of the 7-digit DPKT TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, DPKT TN must be 10 digits.

For 5E12 and later, when the DPKT and/or ODB LNR HNT TNs on the DSLUSR form have an NXX and/or NPA/NXX combination assigned, the NXX and/or NPA/NXX combination must be defined on the NOC form.

2.4 (*) ODB TN

Description: The On Demand B-channel Telephone Number of the DSL (if it has one).
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9 and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

The first three digits must be defined in the OFFICE CODE field on a NOC form.

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This telephone number must be unique within the 5ESS Switch with the following two exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form;
- it can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN or member TN. Multiple TNs are defined on in the TN field on a MULTITN form. The TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

This field must not be entered if the PPB1 USR and PPB2 USR fields are "Y". This would indicate that both B-channels are dedicated to Permanent Packet, thus precluding the use of either B-channel in an On Demand mode. Another indication of the same case would be the B1 SERV and B2 SERV fields on the DSL form, for this DSL, both "X25".

If the MAXB CHL field is not entered, then this field must not be entered. The MAXB CHL indicates the number of B-channels to be used in a Demand basis; if none are to be used, there is no ODB (On Demand B-channel) service available.

If this field is not entered, then X.25 Packet Switching on the B-channel (On Demand) is not desired. Therefore, under the ODB (ON DEMAND B-CHANNEL) header, the SUST (deny termination) field will be assigned a value of "Y" and the other fields must either not be entered or they must be left with their default values.

If this field is entered, then the combination of the L IN LCN and H IN LCN fields or the combination of the L 2W LCN and H 2W LCN fields or the combination of the L OUT LCN and H OUT LCN fields must have entries. LCN (Logical Channel Number) assignment for an On Demand B-channel is explained immediately preceding the LCN fields in the ODB (ON DEMAND B-CHANNEL) portion of this TG-5 section.

If the field is entered, the LCC and RAX fields, under the ON DEMAND B-CHANNEL heading, must have entries which are defined on a LCC form where the corresponding CLASS OF SERVICE field is "ISDN" and the TERMINATING TREATMENT field is "INDIV".

If this field is entered, then the DSL form, for this DSL, must have the D SERV field "SX" and the B1 SERV and/or B2 SERV fields "DMD". The B1/B2 SERV field value of "DMD" indicates that the B-channel is to be used on a Demand basis.

For 5E7 and later, if this field is entered, ODB LCC and RAX must be entered. If this field and the OE field are entered, then the following fields under the ODB (ON DEMAND B-CHANNEL) header must also be entered:

- BAND
- ISCN1 (5E8 and later)
- N2,
- NOTIF (5E8 and later)
- ODB (5E8 and later)
- RATE
- T1,
- T3,
- WNDSZ

For 5E8 and later, when ODB CHL SEL is "N", this TN must be unique within the 5ESS Switch with the

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following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.
- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

For 5E8 and later, when ODB CHL SEL is "Y", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.
- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.
- It must equal DPKT TN if the corresponding DPKT CHL SEL is set to "Y".
- It must equal PPB1 TN (on the DSL form) if the corresponding PPB1 CHL SEL is set to "Y" and PPB1 USR on the DSLUSR form equals "Y".
- It must equal PPB2 TN (on the DSL form) if the corresponding PPB2 CHL SEL is set to "Y" and PPB2 USR on the DSLUSR form equals "Y".

For 5E12 and later, if the first 3 digits of the 7-digit ODB TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, ODB TN must be 10 digits.

For 5E11 and later, when ACT on FOSYS form (5713-2 Record) where FID is 695 is set to "Y" (i.e., the AILA (Automatic ISDN Line Assignment) feature active) and ODB TN is entered or ODB MLHG and ODB TERM are entered, and ODB CHL SEL is "Y" on the corresponding DSLUSR form, the ODB ISCN fields on the DSLUSR form must be entered. For more information on this feature, see Division 2, Section 1BO.

2.5 (*) CKT MLHG

Description: The Multi-Line Hunt Group number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

This field must be defined in the MLHG field on the MLHG form (5110-1 Record).

If the CKT TERM is entered, then this field must be entered.

The entry in the CKT MLHG field must not be the same as the entry in the DPKT MLHG field.

This field must not be entered if the PPB1 USR and PPB2 USR fields are "Y". That would indicate that both B-channels are used for Permanent Packet and therefore circuit-switched services would not be available.

This field must be entered if the RMB (Remote Make Busy) field or the STH (Stop Hunt) field or the MMB SUBGROUP (Make Busy Subgroup) fields are entered, since these fields are only applicable to

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circuit-switched service for hunt groups and require a TN for identification.

If the LOCAL SM field on the defining MLHG form is entered, then the SM portion (first three digits) of the OE on this form must equal the value in the LOCAL SM field.

If this field and the CKT TERM and CKT TN fields are not entered, then circuit-switched services are not desired. Therefore, under the CKT SWITCHING header, the SUST field (deny termination) will be assigned a value of "Y" and all the other fields either must not be entered or they must be left with their default values.

If this field is entered, then under the CKT SWITCHING header, the LCC and RAX fields must be entered.

If this field is entered and the LCC and RAX (under the CKT SWITCHING header) are defined on a LCC form with a CLASS OF SERVICE "ISATND", then the CKT MLHG must be defined in the MLHG field of an MLHG form such that the MLHG FEATURE is defined on an MLHGFD form (5604 Record) with a HUNT TYPE of "ISAT". This is used for ISDN Attendants.

If both this field and the ATT MLHG field are entered, then the CKT MLHG must be defined in the MLHG field of an MLHG form such that the MLHG FEATURE is defined on an MLHGFD form (5604 Record) with a HUNT TYPE that is neither "ISAT" nor "MUPH".

For 5E8 and later, if the CKT MLHG/TERM has been assigned a Call Pickup Terminating feature on an MLHLNFA form (5113 Record), a BFG form (5625 Record), or an associated CLUSTR form (5600 Record), and if the feature was defined on the PUTFD form (5605-2a/b Record) with FEATURE FUNCTION set to "HDIRPUBRG", then:

- if the DSL CLS is "STD" on the corresponding DSL form, and on this DSLUSR form EKTS is blank, then CSV LIMIT must be 1;
- for all other cases, CA QTY must be 1 or not entered.

If the CKT MLHG/TERM is entered, neither CSV LIMIT nor EKTS is entered, and DSL CLS is "STD" on the corresponding DSL form, then this CKT MLHG/TERM cannot be assigned a Call Pickup Terminating feature (defined on the PUTFD form) on the MLHLNFA form or on an associated BFG or CLUSTR form.

For 5E9(1) and later, if CKT MLHG is entered, ACD POS NUM cannot be entered.

For 5E11 and later, if CKT MLHG is entered, NI SAR LIST entries are not permitted.

2.6 (*) CKT TERM

Description: The MLHG terminal number.
Valid Entries: 1 - 2015 or 3001 - 3999 (for outdial terminals only)

Data Rules:

Outdial terminals must not belong to an MLHG (defined on an MLHG form) whose MLHG FEATURE is defined on an MLHGFD form with a HUNT TYPE of "MUPH".

If the CKT MLHG is entered, then this field must be entered.

This field must not be entered if the PPB1 USR and PPB2 USR fields are "Y". This combination would indicate that both B-channels are Permanent Packet, solely used for X.25 Packet Switched Data. Thus, there cannot be any circuit-switched (Voice or Data) services on either B-channel.

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For 5E9(1) and earlier, ISAT (ISDN Attendant) MLHGs are limited to 40 terminals; CKT TERM in an ISAT MLHG may not exceed 40. For 5E9(2) and later, ISAT groups may have a maximum of 63 terminals; CKT TERM may not exceed 63. ISAT MLHGs are identified by a HUNT TYPE of "ISAT" on the associated MLHGFD form.

If the CKT MLHG and CKT TERM combination have been assigned a Precedence and Preemption feature on an MLHLNFA form (5113 Record), a BFG form or an associated CLUSTR form, then the Switching Module (first three digits of the OE field) must be defined on an EQIM form (5700 Record) with an entry in the CONFIGURATION field other than "BASIC".

2.7 (*) DPKT MLHG

Description: The Multiline Hunt Group Number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

If the DPKT TERM field is entered, then this field must be entered.

The entry in the DPKT MLHG field must not be the same as the entry in the CKT MLHG field.

If the MLHG TN field, under the DPKT (D-CHANNEL PACKET SWITCHING) header, is entered, then this field must be entered.

If this field is entered, then under the DPKT (D-CHANNEL PACKET SWITCHING) header, the LCC and RAX fields must be entered.

If this field is entered, then DPKT L IN LCN or DPKT L 2W LCN must be entered.

If this field and the DPKT TERM and DPKT TN fields are not entered, then D-channel Packet Switching services are not desired. Therefore, under the DPKT (D-CHANNEL PACKET SWITCHING) header, the SUST field (deny termination) is assigned a value of "Y" and the other fields either must not be entered or must contain default values.

The DPKT MLHG and DPKT TERM fields must not be duplicated in the DSL NAME ID and (5411 Record) when the SERVICE CLASS entry on the OSPSDSL form is "XDB".

If the LOCAL SM field on the defining MLHG form is entered, then the SM portion (first three digits) of the OE on this form must equal the value in the LOCAL SM field.

If the DPKT MLHG and DPKT TERM fields are entered, then the MLHG TN field must be entered or the LISTED TN field on the associated MLHG form must be entered.

If the DPKT MLHG/TERM(s) are entered and the DPKT MLHG TN is not entered, and D SERV is not equal to "XMP" on a corresponding DSL form; then the Line Class Code and Rate Center combination (DPKT LCC/DPKT RAX) must be defined on the LCC form with a corresponding CLASS OF SERVICE of "ISDN". (The DSL form is found by matching OE from the DSLUSR form to DSL OE on a DSL form.)

For 5E8 and later, when DPKT CHL SEL or ODB CHL SEL is "N", DPKT MLHG/TERM must not equal ODB MLHG/TERM. If DPKT MLHG/TERM are not entered, the following must not be entered:
DPKT HUNT NOTIF

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DPKT BUSY LIMIT
DPKT LNR HNT TN

and DPKT HUNT DEACT must be "N".

2.8 (*) DPKT TERM

Description: The MLHG terminal number.
Valid Entries: 1 - 2015

Data Rules:

If the DPKT MLHG field is entered, then this field must be entered.

If the DPKT MLHG and DPKT TERM fields are entered and the corresponding OE is defined on a DSL form with the D SERV field a value other than "XMP", then the value entered in the DPKT MLHG field must be defined on a MLHG form with an MLHG FEATURE that is defined on a MLHGFD form with HUNT TYPE "PSUCD".

If the DPKT MLHG and DPKT TERM fields are entered and the associated OE is with the D SERV field set to "XMP" (indicating a Modem Pool terminal adaptor), then:

- The combination of the DPKT MLHG and DPKT TERM fields must appear, respectively, in the PKT MLHG and PKT TERM fields of a PSCUG form (5924 Record).
- The DNIC (Data Network ID Code) and ICN (International CUG Number) fields, on PSCUG forms, must be the same combination for every DPKT TERM within a DPKT MLHG.
- An MLHLN form (5111 Record) must exist such that the combination of the MLHG and TERM fields match, respectively, the DPKT MLHG and DPKT TERM fields on this DSLUSR form. A Modem Pool member has an analog and a digital component, defined on an MLHLN form and a DSLUSR form, respectively.
- The MLHG form, where the MLHG entry matches the DPKT MLHG entry on this DSLUSR form, must have an entry in the corresponding MPTYPE field. The MPTYPE field is used exclusively by Modem Pool Hunt Groups.
- The corresponding DPKT MLHG must be defined on an MLHG form whose corresponding MLHG FEATURE is defined on an MLHGFD form with a HUNT TYPE of "UCD".

2.9 (*) ODB MLHG

Description: On Demand B-channel Multi-Line Hunt Group.

Software Release: 5E8 and later
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

If ODB MLHG is entered, OE and ODB TERM must be entered; ODB TN must not be entered.

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When DPKT CHL SEL or ODB CHL SEL is "N", DPKT MLHG/TERM must not be the same as ODB MLHG/TERM.

The entry in the ODB MLHG field must not be the same as the entry in the CKT MLHG field.

If this field is entered, then ODB L IN LCN or ODB L 2W LCN must be entered.

If this field and ODB TERM and ODB TN are not entered, On Demand B-channel services are not desired. Therefore, under the ODB header, the fields either must not be entered or must contain default values.

If this field is entered, the following fields under the ODB (On Demand B-channel) header, must be entered: ISCN1, ODB, LCC, RAX, RATE, N2, T1, T3, WNDSZ, and BAND.

This field must not be entered if the PPB1 USR and PPB2 USR fields are "Y".

If the MAXB CHL field is not entered, this field must not be entered. The MAXB CHL indicates the number of B-channels to be used on a demand basis. If none are to be used, there is no ODB service available.

If ODB MLHG and TERM are not entered, ODB HUNT NOTIF, ODB BUSY LIMIT, and ODB LNR HNT TN must not be entered; ODB HUNT DEACT must be "N".

If the LOCAL SM field on the defining MLHG form is entered, the SM portion (first three digits) of the OE on this form must equal the value in the LOCAL SM field.

If ODB MLHG is entered, the MLHG must be defined on an MLHG form with an MLHG FEATURE that is defined on an MLHGFD form with HUNT TYPE set to "PSUCD".

For 5E8 and later, if the ODB MLHG/TERM(s) are entered and ODB MLHG TN is not entered; then the Line Class Code and Rate Center combination (ODB LCC/ODB RAX) must be defined on the LCC form with a corresponding CLASS OF SERVICE of "ISDN".

For 5E11 and later, when ACT on FOSYS form (5713-2 Record) where FID is 695 is set to "Y" (i.e., the AILA (Automatic ISDN Line Assignment) feature active) and ODB TN is entered or ODB MLHG and ODB TERM are entered, and ODB CHL SEL is "Y" on the corresponding DSLUSR form, the ODB ISCN fields on the DSLUSR form must be entered. For more information on this feature, see Division 2, Section 1BO.

For 5E12 and later, when the ODB MLHG TNs on the DSLUSR form have an NXX and/or NPA/NXX combination assigned, the NXX or NPA/NXX must be defined as an OFFICE CODE and/or NPA/OFFICE CODE on a NOC form.

2.10 (*) ODB TERM

Description: On Demand B-channel Multi-Line Hunt Group member.

Software Release: 5E8 and later
Valid Entries: 1 - 2015

Data Rules:

If ODB TERM is entered, ODB MLHG must be entered.

For 5E8 and later, if the ODB MLHG/TERM(s) are entered and ODB MLHG TN is not entered; then the Line Class Code and Rate Center combination (ODB LCC/ODB RAX) must be defined on the LCC form with a corresponding CLASS OF SERVICE of "ISDN".

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For 5E11 and later, when ACT on FOSYS form (5713-2 Record) where FID is 695 is set to "Y" (i.e., the AILA (Automatic ISDN Line Assignment) feature active) and ODB TN is entered or ODB MLHG and ODB TERM are entered, and ODB CHL SEL is "Y" on the corresponding DSLUSR form, the ODB ISCN fields on the DSLUSR form must be entered. For more information on this feature, see Division 2, Section 1BO.

2.11 OE

Description: Equipment type and number.
Valid Entries: This is a two segment field comprised of an equipment type and number for the (R)ISLU LCEN of the DSL. For 5E8 and later, the ILEN equipment type and number was added for IDCU.

Valid OE Type Entries

Entry	Definition
A	Software Release: 5E12 and later. TR-303 on DNU-S (i.e., INEN).
E	Software Release: 5E12 and later. Access Interface Unit (i.e., AIUEN).
G	Software Release: 5E8 and later. The OE type is associated with a 10-digit ILEN for an IDCU RT (Remote Terminal). This IDCU designation (GEN) accommodates up to 2048 lines.
I	The OE is associated with an 8-digit (R)ISLU LCEN.
K	Software Release: 5E10 and later. ISDN ISLU2 line card equipment number (LCKEN).
X	Software Release: 5E16 and later. The DSL OE (Digital Subscriber Line card Equipment Number (composite line card equipment number consisting of LCENTYPE and LCEN)).

If "A" is entered, the OE 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 "E" is entered, the OE consists of:

For 5E16 and later, when OE is "X", SERV TYPE must be "CFS" on the ENETLINK form (5827 Record) for SM of OE.

AIU-ISDN, Type E

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Access Interface Unit	AIU	XXX	00-127
Pack	PACK	XX	00-19
Circuit	CKT	XX	00-15

If "G" is entered, the OE consist of:

IDCU Remote Terminal Number, Type G

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	IDCU	X	0-42
Remote Terminal	RT	XX	01-31
Line	LINE	XXXX	0001-2048

If "I" is entered, the OE consist of:

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(R)ISLU Equipment Number	Type I		
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
(Remote) Integrated Service Line Unit	(R) ISLU	X	0-7
Line Group Controller	LGC	XX	00-15
Line Card	LC	XX	00-31

If OE is set to "K", this OE Equipment number consists of:

ISLU2 Remote Terminal Number, Type K			
Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Unit Number	LU	XX	00 - 42
Line Group	LG	XX	00 - 15
Line Board	LBD	X	0 - 7
Line Circuit	LCKT	X	0 - 7

If an "M" is entered, the OE consist of:

IDCU Remote Terminal Number, Type M			
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

The length of the equipment number is defined in the OE SIZE field on the OFCOPT form (5509 Record). Only one OE type is allowed in an office.

Data Rules:

This field must be entered if the CKT ICP (Intercept), DPKT ICP or ODB ICP fields are "N".

The SM entered must appear in the SWITCHING MODULE field on an EQPSU form (5741 Record). An EQPSU form defines the PSU (Packet Switching Unit) peripheral to the SM. The PSU is an integral part of ISDN (Integrated Services Digital Network) hardware.

The OE must appear in the DSL OE field on a DSL form. A DSL user cannot be indicated without the DSL itself defined.

For 5E8 and later, when the CKT TN or CKT MLHG/TERM fields are entered, and DSL CLS is "STD" on the associated DSL form, the following rules apply:

- TERM TYPE cannot be "TYPEB", "TYPED", "TYPEE", or "ATND";
- ACT USR must be "Y";
- BRITL ALW must be "N" or not entered;
- SAR NUM must not be entered.
- LN TYPE must be "NONE or not entered;
- The following fields must be "N": SAR ORIG, SAR TERM, INCOMING, INTERCOM, ORIG CW, PP, and LONG DST DR.

For 5E8 and later, when DSL CLS is "PP" or "MP", the following rules apply:

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- if the CKT TN or CKT MLHG/TERM fields are entered, and if TERM TYPE is "TYPEA", "TYPEB", "TYPEC", "TYPED", or "ATND", then CA QTY must be entered;
- if TERM TYPE is "TYPEB", "TYPEC", "TYPED", or "ATND" CA must be entered. (DSL CLS is not "STD").

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 DSL for the terminal adaptor, must be the same as the SM entered in the OE NUMBER field with an OE TYPE of "C", "L" or "S" on the MLHLN form, which is the analog of interest must match the DPKT MLHG and DPKT TERM fields on this form.

All LCENs and ILENs that appear on a DSLUSR form must be defined on a DSL form.

Type is "G":
If "G" is entered,

- the SM/IDCU/RT values assigned to OE NUMBER[1,7] must correspond to the SM/UNIT NUMBER/RT EX values assigned on an RTERM form (5174 Record).
- the first three digits and the fourth and fifth digits of OE NUMBER must be defined on an EQIDCU form as SM and IDCU.
- and if the DSL has manually assigned D RELPIDBs and/or PPB1/PPB2 DPIDBs, there must be a corresponding PIDB NO. With PIDB TYPE of PSU on the EQIDCU form.

NOTE: The IDCU DPIDBs connect the IDCU to the PSU. They carry IDCU control information (EOC and TMC channels), the DSL D channel control and packet data, and the DSL B-channel packet switching and voice data. Each DPIDB has 32 TS (time slots). The EOC, TMC and B-channels each occupy a full TS. The D-channels each occupy one-quarter TS but should be packed (up to) four to a TS if they originate on the same TR303 RT, if they are assigned to the same DPIDB and they belong to the same DSL group (ISCN 1,3). They must also occupy a unique IDCU DS1 TS and have the same positioning in that TS. In other words, D-channel quarter TS cannot be switched.

OE is "I":
If OE TYPE is "I" then the first three digits and the fourth digit of OE NUMBER must be defined on an EQISLU form as SWITCHING MODULE and ISLU NUMBER.

OE is "K" :
If OE TYPE is "K" then the first three digits and the fourth and fifth digits of OE NUMBER must be defined on an EQISLU form as SWITCHING MODULE and ISLU NUMBER.

For 5E10 and later, the ODA automatic time slot assignment algorithm allocates four TS to each SM/ISLU2/LG configuration for each PIDB from the ISLU2 to the PSU as follows: For LGs (OE[6,7] or DSL OE[6,7]) numbered between 0 and 7 the time slots are assigned to odd numbered PSU PIDBs and for LGs (OE[6,7] or DSL OE[6,7]) numbered between 8 and 15 the time slots are assigned to even numbered PSU PIDBs (PIDBs are assigned on the EQISLU form). If there are too many time slots assigned for the number of PIDBs on either the ODD or EVEN numbered PIDBs a cross check error will occur.

A maximum of 128 ALCBs (Access Link Control Blocks) can 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

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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 / 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**
AMLBDSL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique AMLBDSL 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.
		D ISCN[1,3]	by 1 if a matching DSLUSR form is not found
DSLUSR	OE[1,3]	D ISCN[1,3] on the cor-responding 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 "TR303"	SM	ISCN[1,3]	by 2 for each TMC PRI ISCN and each TMC NPRI ISCN entry.
			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]	by 1 for each unique TRUNK form.
XAT	DEN[1,3]	ISCN[1,3]	by 1 for each unique XAT form.

USER INFO

Fields Section 2.12 - Section 2.18 refer to user information.

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For 5E12 and later, when more than one DSLUSR form with the same value of OE have CKT LCC and CKT RAX values defined on an associated LCC form, all DSLUSR forms must have the same CLASS OF SERVICE assigned.

2.12 USPID

Description: Enter the User Service Profile Identifier. The USPID is the provisioned part of the SPID, which identifies a terminal to the switch during initialization. It is a unique identifier for each DSL user in the office.

For custom DSLs (where DSL CLS is not "STD" on the DSL form), the USPID may be no longer than 10 digits. For Standard DSLs the USPID may be 1 - 18 digits in length. Leading zeros are significant. For example, 10 and 0010 are not identical, but are two different identifiers. Likewise, 0 and 0000000000 are different.

For 5E9(1) and later, the Telephone Company is responsible for determining and entering a value for this field. Besides appearing on this DSLUSR form (5908 Record), the USPID values also appear on output-only records (5908A and 5908B) described in Division 5, Section 1K.

For more information about the 5E9(1) USPID field, see Division 2, Section 1AA.

For 5E10 and later, the value 010101010101 cannot be entered. It is reserved to support the Automatic SPID Download feature. For more information on this feature, see Division 2, Section 4A200.

Software Release: 5E9(1) and later
Valid Entries: 1 - 18 digits

Data Rules:

If USPID is entered, OE TYPE and NUMBER must be entered; likewise, if the OE fields are entered, USPID must be entered.

The USPID must be unique for each DSLUSR form in the office.

When DSL CLS on the corresponding DSL form is other than "STD", the USPID is limited to a maximum length of ten digits.

2.13 MAXB CHL

Description: The maximum number of B-channels to be used on a Demand basis for circuit-switched services.
Valid Entries: 1 or 2

Data Rules:

If the ODB TN field is entered, then this field must be entered.

If this field is not entered, then the CSV CHL and CSD CHL fields must not be entered or must be "NO", because that indicates that circuit-switched services on the B-channel are not desired.

If a value is entered in this field, the value must equal or exceed the value entered in the CSV or CSD fields. circuit-switched services cannot use more B-channels than have been appropriated.

2.14 ACT USR

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Description: Is this user an active user on a DSL?
Valid Entries: Y, N

Data Rules:

A Point-to-Point DSL or Restricted MP-DSL (Multipoint DSL) must only have a single active user. Pure DSL Multipoint has every user as an active user.

2.15 DFLT TN USER

Description: Is this user a default telephone number user? This field supports the Non-Initializing Terminals secured feature on a Standard ISDN interface. For more information on this feature, see Division 2, Section 1AM.

Software Release: 5E10 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

Default DN Service for Non-Initializing Terminals is a feature that must be purchased by the office before the DFLT TN USER field can be set to "Y". The ACT field for SFID 225 on the SFSYS form (5713-1 Record) must be set to "Y", before "Y" can be entered in this field.

DFLT TN USER must be "N", if DPKT FIXED TEI is entered.

If DFLT TN USER is "Y" :

- and CKT services are entered, then

  CKT TN must be entered.

- and DPKT services are entered, then

  DPKT TN must be entered.

- and ODB services are entered, then

  ODB TN must be entered.

- and both DPKT TN and ODB TN are entered, then

  DPKT CHL SEL must be "Y"

  ODB CHL SEL must be "Y"

  DPKT TN must equal ODB TN.

- the following must not be entered:

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CKT MLHG

CONFIG GRP

DPKT H PVC LCN

EKTS

PASC

- the following must be "N":

  SHARED

  SCP ALW

  NIT does not allow the user to have a terminal key system.

- and a CKT TN, or a DPKT TN or ODB TN is entered, only one packet DSLUSR form is allowed per BRI at a time. Only one DSLUSR form on a DSL with DFLT TN USER set to "Y", can have a CKT TN and only one DSLUSR form can have a DPKT and/or an ODB TN, i.e., one packet DFLT TN and one circuit DFLT TN. The TNs can be for separate users or the same user.
- and a CKT TN is entered , then on the corresponding DSL form (DSL OE matches DSLUSR form OE) the DFLT SRV field must not have an entry. A BRI cannot have Default Service (DFLT SRV) and a Circuit Default DN (DFLT TN USER) at the same time. Note, this data rules is for 5E10 only. It will be deleted for 5E10 Software Updates.
- then on the corresponding DSL form (DSL form DSL OE matches DSLUSR form OE) the DSL CLS field must be set to "STD". A BRI cannot have a Default DN (DFLT TN USER) unless its Class of Service is "STD".

CAICOM form can only be entered when "CACH" is entered for EKTS. Therefore, if CKT TN is entered with either the DFLT TN USER field set to "Y" or the DPKT FIXED TEI field entered, a corresponding CAICOM form (where DSLUSR form CKT TN matches CAICOM form TN) can not be entered. ISDN Call Appearance Intercom is not allowed with either a Circuit Default DN (DFLT TN USER) or a Fixed Terminal Endpoint Identifier (DPKT FIXED TEI).

If either the DFLT TN USER field is set to "Y" or the DPKT FIXED TEI field entered, the CKT TN cannot have BRCS features assigned on the LINEFA, BFG, or CLUSTR forms which are not allowed with NIT (Non-Initializing Terminal) features. In addition, BRCS features defined on the following forms:

- ASPFD with CONTROL set to "NESS"
- EDSFD
- MSFD

are not allowed for NIT, because they require the use of Fully Initializing Terminals.

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2.16 PPB1 USR

Description: Is Permanent Packet B1 associated with this user?
Valid Entries: Y, N

Data Rules:

One and only one DSLUSR form, per unique DSL, may have this field "Y".

If Permanent Packet B1 is associated with this user, then the DSL, defined on a DSL form, must have an entry of "X25" in the B1 SERV field. The "X25" entry indicates a Permanent Packet B-channel.

2.17 PPB2 USR

Description: Is Permanent Packet B2 associated with this user?
Valid Entries: Y, N

Data Rules:

One and only one DSLUSR form, per unique DSL, may have this field "Y".

If Permanent Packet B2 is associated with this user, then the DSL, defined on a DSL form, must have an entry of "X25" in the B2 SERV field. The "X25" entry indicates a Permanent Packet B-channel.

Both PPB1 USR and PPB2 USR can be "Y" on the same instance of this form.

If both PPB1 USR and PPB2 USR are "Y", then the CKT TN, CKT MLHG, CKT TERM, ODB TN, and ODB MLHG/TERM, fields must not be entered. A user that indicates that both B-channels are to be used for Packet Switching has precluded the use of any circuit-switched services or On Demand B-channel Packet Switched services.

2.18 AGI

Description: The AGI (Associated Group Indicator) designates the group to which a Demand B-channel user is assigned. When users of the same BRI are assigned to the same AGI group, they will be treated as one logical Demand B-channel user.

AGI applies only to Demand B-channel users on Standard BRIs: the user subscribes to CSV, CSD, or ODB services; and DSL CLS is set to "STD" on the associated DSL form.

Software Release: 5E8 and later
Valid Entries: 1 or 2

Data Rules:

If a value is entered in AGI, DSL CLS must be "STD" on the corresponding DSL form.

When DSLUSR forms share a common OE, and the OE is assigned on a Standard DSL form where

- neither B1 SERV nor B2 SERV is "X25", then all AGI fields on the DSLUSR forms must have a value or all must be blank
- either B1 SERV or B2 SERV is "X25", then all AGI fields on the DSLUSR forms must have the same value (either 1 or 2) or all must be blank

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- both B1 SERV and B2 SERV are "X25", then no AGI field on the DSLUSR forms may have an entry.

When a value is entered in AGI, MAXB CHL must be 1; and CSV, CSD, or ODB must be 1.

If both PPB1USR and PPB2USR are "Y", AGI must be blank.

2.19 INHIBIT DEL

Description: This field is used to indicate whether or not deletion is inhibited for this DSL.

Software Release: 5E13 and later
Valid Entries: Y, N

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

CKT SWITCHING

The following fields (Section 2.20 - Section 8.9) contain entries used in circuit-switched calls.

2.20 MLHG TN

Description: The Hunt Telephone Number of the DSL (if it has one).
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:

The first three digits must be defined in the OFFICE CODE field on a NOC form.

If this field is entered, then the CKT MLHG and CKT TERM fields must be entered.

This field or the CKT TN field must have an entry if the BUSY MONITOR field is "Y", which indicates that the terminal can be monitored via the Busy Lamps of an ISDN Attendant MLHG.

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN or member TN. Multiple TNs are defined in the TN field on a MULTITN form. The TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

For 5E8 and later, the CKT MLHG TN must duplicate the LISTED TN on the associated MLHG form if this is member 1 of the MLHG, and the associated MLHG FEATURE has a HUNT TYPE of "REG", "HTC", or "PMHG" indicated on the MLHGFD form (5604 Record); otherwise, the entry in the CKT MLHG TN field must be unique within the 5ESS Switch, with the exception that it may match only one of the following:

- The DPKT TN or DPKT MLHG TN entry on the same DSLUSR form, where DPKT CHL SEL is "N".
- The ODB TN or ODB MLHG TN entry on the same DSLUSR form, where ODB CHL SEL is "N".
- The PERMANENT PACKET B1 TN on the DSL form, for this DSL, where PPB1 CHL SEL is "N", if the PPB1 USR entry on this DSLUSR form is "Y".

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- The PERMANENT PACKET B2 TN on the DSL form, for this DSL, where PPB2 CHL SEL is "N", if the PPB2 USR entry on this DSLUSR form is "Y".

If no matches are made above, the entry in the CKT MLHG TN field must be unique within the 5ESS Switch, with the exception that it may match only one, two, or three of the following:

- The DPKT TN or DPKT MLHG TN entry on the same DSLUSR form, where DPKT CHL SEL is "Y".
- The ODB TN or ODB MLHG TN entry on the same DSLUSR form, where ODB CHL SEL is "Y".
- The PERMANENT PACKET B1 TN on the DSL form, for this DSL, where PPB1 CHL SEL is "Y", if the PPB1 USR entry on this DSLUSR form is "Y".
- The PERMANENT PACKET B2 TN on the DSL form, for this DSL, where PPB2 CHL SEL is "Y", if the PPB2 USR entry on this DSLUSR form is "Y".

For 5E12 and later, if the first 3 digits of the 7-digit CKT MLHG TNs on the DSLUSR form are equal 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, CKT MLHG TN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.21 LCC

Description: The Line Class Code. Line Class Codes are defined on the LCC form (5306 Record).
Valid Entries: 3 alphanumeric characters.

Data Rules:

If the CKT MLHG and CKT TERM fields are entered, then the LCC and RAX combination must be defined on a LCC form with a CLASS OF SERVICE "ISDN" or "ISATND" and a TERMINATING TREATMENT "MLHG" or "INWATS".

If the CKT MLHG and CKT TERM fields are entered and the CKT MLHG is defined on an MLHG form whose MLHG FEATURE is defined on an MLHGFD form whose BEARER field is "CSD" (Circuit-Switched Data), then the LCC associated with the CKT MLHG must be defined on an LCC form whose TERMINATING TREATMENT is "MLHG".

If the CKT MLHG and CKT TERM fields are entered and the CKT MLHG is defined on an MLHG form whose MLHG FEATURE is defined on an MLHGFD form whose BEARER field is "CSD", then the TERM TYPE field on the DSLUSR field must be "TYPEA", "TYPEB", "TYPEC", "TYPED" or "TYPEE".

For 5E8 and later, if the CKT TN or CKT MLHG/TERM fields are entered, and DSL CLS is "STD" on the associated DSL form, then the LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "ISDN".

For 5E8 and later, TNs (Telephone Numbers) on a LINE form or CKT TNs (Circuit Telephone Numbers) on a DSLUSR form that are assigned to a Terminal Group & Station Restriction Feature on either the LINEFA, BFG form or an associated CLUSTR form(s), the TN must also be defined on the LINE form or DSLUSR form with a LCC/RAX value that corresponds to one of the following Service Classes on the LCC form:

"4WINDIV"
"ATND"
"INDIV"

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"HOTPBX"
"HOTMOTL"
"ISATND"
"MODEM"
"ISDN"
"PBX"
"SATSTLN"

2.22 RAX

Description: The Rate Area. The LCC and RAX determine the Digit Analysis Selector and Screening Index used for calls originating from this line and the terminating treatment of calls to this line.
Valid Entries:
For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 999

Data Rules:

If the LCC and RAX combination, under the CKT SWITCHING header, are defined on an LCC form with a CLASS OF SERVICE of "ISATND", then "ATND" must be entered in the TERM TYPE field on this DSLUSR form.

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).

2.23 CODE RESTRICT

Description: This field represents the Code Restriction used for a circuit switching DSL (Digital Subscriber Line) which is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

2.24 BILL TN

Description: A TN to be billed if the Circuit TN to be billed is different from the CKT TN of this DSL.
Valid Entries: A 7-digit Circuit TN for calls billed to a Circuit TN within the local office; a 10-digit Circuit TN for calls billed to a Circuit TN outside the local office. Valid TNs must be in one of the following formats:

Valid BILL TN Entries

Entry	Definition
NXXXXXX	Where the first three digits are a valid office code defined in the OFFICE CODE field on a NOC form.
ZXXXXXX	Z is 0 or 1. This is normally used for OUTWATS billing purposes. The first three digits must be defined in the OFFICE CODE field on a NOC form.
NPAXXXXXXX	A 10-digit number with valid NPA and NXX codes.

2.25 CPN SCRN

Description: Will user-provided Calling Party Numbers (CPNs) be screened?

Software Release: 5E6 and later

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Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CPN SCRN is "Y", the user-provided CPN is screened against the primary DN for the terminal. If the CPN does not match the primary DN, it is replaced with a switch-provided CPN.

If CPN SCRN is "N", the switch always provides the CPN, even if the terminal sends a CPN.

CPN SCRN should be "Y" only for those ISDN terminals that supply a user-provided CPN.

For terminals connected to a PBX, this attribute should always be "N", since screening should not be done in a PBX.

2.26 RMK

Description: Remarks entered for administrative purposes.
Valid Entries: Up to 16 alphanumeric characters.

3. FORM ENTRIES, 5908-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

CIRCUIT VOICE (CSV)

The following fields (Section 3.2 -Section 3.10) apply to Circuit Switched Voice service.

3.2 CSV

Description: The number of Circuit-Switched Voice channels allowed.
Valid Entries: 1 or 2

Data Rules:

If the CSV CHL field is "B1", "B2" or "ANY", then this field must be entered.

The value entered in this field must not exceed the value entered in the MAXB CHL field.

If a Multi-Line Hunt Group is defined on an MLHG form where BEARER on the corresponding MLHGFD form for the MLHG FEATURE is "VOICE", and the MLHG is assigned as CKT MLHG on this DSLUSR form, or as the key MLHG on an SHTN form where TN from the first row matches the CKT TN on this DSLUSR form, then a value must be entered in this CSV field.

For 5E8 and later, when either the CKT TN or CKT MLHG/TERM is entered, if the CSV field is entered, the EKTS field is not entered, and the DSL CLS is "STD" on the associated DSL form, then CSV LIMIT on this DSLUSR form must be entered.

For 5E11 and later:

When CSV is set to "2" and TERM TYPE is "TYPEA" or "TYPEC", DSL CLS is set to "STD" on the

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corresponding DSL form, then the ACT field for SFID 268 must be set to "Y".

When CSV is set to "2" and TERM TYPE is set to "TYPEA" or "TYPEC", then DSL CLS must be set to "STD" on a corresponding DSL form.

3.3 CSV CHL

Description: The channel(s) allowed for Circuit-Switched Voice.
Valid Entries: B1, B2, ANY (B1 and B2) or NO (neither B1 or B2).

Data Rules:

If the CSV field is entered, then this field must be "B1", "B2", or "ANY".

If the CSV field is equal to 2, then this field must be "ANY".

If the B1 SERV field on the DSL form for this DSL is "X25", this field must not be "B1". The B1 SERV entry of "X25" indicates the channel is to be used on a Permanent Packet basis, thus precluding the use of circuit-switched services.

If the B2 SERV field on the DSL form for this DSL is "X25", this field must not be "B2", The B2 SERV entry of "X25" indicates the channel is to be used on a Permanent Packet basis, thus precluding the use of circuit-switched services.

3.4 CSV ACO

Description: The CSV ACO (Circuit Switched Voice Additional Call Offering) indicates the type of CSV ACO service provided. ACO is an optional feature for type A BASIC CALL CPE's. Not all BASIC CALL CPE's will operate correctly with ACO. If the CPE is not compatible with ACO this field may be left blank.

CSV ACO applies only to Standard BRI users.

Software Release: 5E8 and later
Valid Entries:

Valid CSV ACO Entries

Entry	Definition
U	Unrestricted version of ACO.
INTRA	Software Release: 5E9(1) and later. Unrestricted Intra-Basic Business Group.
INCOM	Software Release: 5E9(1) and later. Unrestricted Incoming to Basic Business Group Only.

Data Rules:

If a value is entered in this field, DSL CLS must be "STD" on the associated DSL form. On this DSLUSR form, TERM TYPE must be "TYPEA"; CSV LIMIT must be entered; EKTS and CKT MLHG/TERM cannot be entered.

For 5E9(1) and later if CSV ACO is entered, CSV LIMIT must be greater than CSV NBLIMIT; if CSV LIMIT is greater than 1, CSV NBLIMIT must be greater than 0. When CSV NBLIMIT is not entered and CSV LIMIT is 1, the software will automatically set CSV NBLIMIT to 0; when CSV LIMIT is greater than 1, the software will set CSV NBLIMIT to 1.

If CSV ACO is not entered, CSV NBLIMIT must not be entered.

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If CSV ACO is "INTRA" or "INCOM", BRCS must be "Y"; and the CKT TN must be assigned a Terminal Group Station Restriction feature, defined on a TGSRFD form (5607-1/2 Record) and assigned to the TN on a LINEFA, CLUSTR, or BFG form.

3.5 CSV LIMIT

Description: This field specifies the CSV Call Reference Busy Limit.

Software Release: 5E8 and later
Valid Entries: 1 - 16

Data Rules:

If a value is entered in this field, DSL CLS must be "STD" on the associated DSL form. On this DSLUSR form TERM TYPE must be "TYPEA" and CSV must be entered.

3.6 CSV NBLIMIT

Description: Enter the maximum number of simultaneous waiting voice calls. (See data rules under the CSV ACO field.)

Software Release: 5E9(1) and later
Valid Entries: 0 - 15

3.7 SP DNA

Description: Enter the first DN (Directory Number) CA for speech. This field, along with SP DNA QTY, is used to set the range of speech DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If SP DNA is entered, SP DNA QTY must be entered. When SP DNA and SP DNA QTY are both entered, CSV must be 1.

The range of SP DNAs and the range of any of the following cannot overlap: AU DNAs, DPKT DNAs, K56 DNAs, K64 DNAs, or ODB DNAs.

If SP DNA or SP DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.8 SP DNA QTY

Description: Enter the number of DN CAs for speech.

Software Release: 5E9(1) and later
Valid Entries: 1 - 16

Data Rules:

If SP DNA QTY is entered, SP DNA must be entered. If SP DNA and SP DNA QTY are both entered, CSV must be 1.

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SP DNA QTY cannot exceed CSV LIMIT.

The sum of SP DNA and SP DNA QTY cannot exceed 255.

When EKTS is "BASIC" and SP DNA QTY is entered, SP DNA QTY must be 1.

If SP DNA or SP DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.9 AU DNA

Description: Enter the first DN CA for audio. This field, along with AU DNA QTY, is used to set the range of audio DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 255

Data Rules:

If AU DNA is entered, AU DNA QTY must be entered.

The range of AU DNAs cannot overlap with the range of any of the following: DPKT DNAs, K56 DNAs, K64 DNAs, ODB DNAs, or AU DNAs.

If AU DNA or AU DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.10 AU DNA QTY

Description: Enter the number of DN CAs for audio.

Software Release: 5E9(1) and later
Valid Entries: 1 - 16

Data Rules:

If AU DNA QTY is entered, AU DNA must be entered. If AU DNA and AU DNA QTY are both entered, CSV must be 1. If EKTS is "BASIC" and AU DNA QTY is entered, AU DNA QTY must be 1.

AU DNA QTY cannot exceed CSV LIMIT.

The sum of AU DNA and AU DNA QTY cannot exceed 255.

If AU DNA or AU DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

CIRCUIT DATA (CSD)

The following fields (Section 3.11 -Section 3.19) apply to Circuit Switched Data service.

3.11 CSD

Description: The number of Circuit-Switched Data channels allowed.
Valid Entries: 1 or 2

Data Rules:

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If the CSD CHL field is "B1", "B2", or "ANY", then this field must be entered.

The value entered in this field must not exceed the value entered in the MAXB CHL field.

If a Multi-Line Hunt Group is defined on an MLHG form where BEARER on the corresponding MLHGFD form for the MLHG FEATURE is "CSD", and the MLHG is assigned as CKT MLHG on this DSLUSR form, or as the key MLHG on an SHTN form where TN from the first row matches the CKT TN on this DSLUSR form, then a value must be entered in this CSD field.

For 5E8 and later, when either the CKT TN or CKT MLHG/TERM is entered, if the CSD field is entered, and DSL CLS is "STD" on the associated DSL form, then CSD LIMIT on this DSLUSR form must be entered.

3.12 CSD CHL

Description: The channel(s) allowed for Circuit-Switched Data.
Valid Entries: B1, B2, ANY (B1 and B2) or NO (neither B1 or B2).

Data Rules:

If the CSD field is entered, then this field must be "B1", "B2", or "ANY".

If the CSD field is equal to 2, then this field must be "ANY".

If the B1 SERV field on the DSL form for this DSL is "X25", this field must not be "B1", The B1 SERV entry of "X25" indicates the channel is to be used on a Permanent Packet basis, thus precluding the use of circuit-switched services.

If the B2 SERV field on the DSL form for this DSL is "X25", this field must not be "B2". The B2 SERV entry of "X25", indicates the channel is to be used on a Permanent Packet basis, thus precluding the use of circuit-switched services.

3.13 CSD ACO

Description: The CSD ACO (Circuit Switched Data Additional Call Offering) indicates the type of CSD ACO service provided. ACO is an optional feature for type A BASIC CALL CPE's. Not all BASIC CALL CPE's will operate correctly with ACO. If the CPE is not compatible with ACO this field may be left blank.

CSD ACO applies only to Standard BRI users.

Software Release: 5E8 and later
Valid Entries:

Valid CSD ACO Entries

Entry	Definition
U	Unrestricted version of ACO.
INTRA	Software Release: 5E9(1) and later. Unrestricted Intra-Basic Business Group.
INCOM	Software Release: 5E9(1) and later. Unrestricted Incoming to Basic Business Group Only.

Data Rules:

If a value is entered in this field, DSL CLS must be "STD" on the associated DSL form. On this DSLUSR form, TERM TYPE must be "TYPEA"; CSD LIMIT must be entered; EKTS and CKT MLHG/TERM cannot be entered.

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For 5E9(1) and later if CSD ACO is entered, CSD LIMIT must be greater than CSD NBLIMIT; if CSD LIMIT is greater than 1, CSD NBLIMIT must be greater than 0. When CSD NBLIMIT is not entered and CSD LIMIT is 1, the software will automatically set CSD NBLIMIT to 0; when CSD LIMIT is greater than 1, the software will set CSD NBLIMIT to 1.

If CSD ACO is not entered, CSD NBLIMIT must not be entered.

If CSD ACO is "INTRA" or "INCOM", BRCS must be "Y"; and the CKT TN must be assigned a Terminal Group Station Restriction feature, defined on a TGSRFD form (5607-1/2 Record) and assigned to the TN on a LINEFA, CLUSTR, or BFG form.

3.14 CSD LIMIT

Description: This field specifies the CSD Call Reference Busy Limit. An entry in this field is necessary to originate or terminate CSD calls on all types of Standard lines: Basic, ACO, EKTS Basic, and EKTS CACH.

Software Release: 5E8 and later
Valid Entries: 1 - 16

Data Rules:

If a value is entered in this field, DSL CLS must be "STD" on the associated DSL form. On this DSLUSR form CSD must be entered; if CSD LIMIT is greater than 1, EKTS must be blank.

3.15 CSD NBLIMIT

Description: Enter the maximum number of simultaneous waiting data calls. (See data rules under the CSD ACO field.)

Software Release: 5E9(1) and later
Valid Entries: 0 - 15

3.16 K56 DNA

Description: Enter the first DN CA for K56 CSD. This field, along with K56 DNA QTY, is used to set the range of K56 CSD DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If K56 DNA is entered, K56 DNA QTY must be entered. If K56 DNA and K56 DNA QTY are both entered, CSD must be 1 or 2.

The range of K56 DNAs cannot overlap with the range of any of the following: AU DNAs, CAs, DPKT DNAs, K64 DNAs, ODB DNAs, or SP DNAs.

If K56 DNA or K56 DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.17 K56 DNA QTY

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Description: Enter the number of DN CAs for 56K CSD.

Software Release: 5E9(1) and later
Valid Entries: 1 - 16

Data Rules:

If K56 DNA QTY is entered, K56 DNA must be entered. If K56 DNA and K56 DNA QTY are both entered, CSD must be 1 or 2.

K56 DNA QTY cannot exceed CSD LIMIT.

The sum of K56 DNA and K56 DNA QTY cannot exceed 255.

If EKTS is "BASIC" and K56 DNA QTY is entered, K56 DNA QTY must be 1. If EKTS is "CACH" and K56 DNA QTY is entered, K56 DNA QTY must be 1.

If K56 DNA or K56 DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.18 K64 DNA

Description: Enter the first DN CA for K64 CSD. This field, along with K64 DNA QTY, is used to set the range of K64 CSD DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If K64 DNA and K64 DNA QTY are both entered, CSD must be 1 or 2. If K64 DNA is entered, K64 DNA QTY must be entered.

The range of K64 DNAs cannot overlap with the range of any of the following: AU DNAs, CAs, K56 DNAs, DPKT DNAs, ODB DNAs, or SP DNAs.

If K64 DNA or K64 DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

3.19 K64 DNA QTY

Description: Enter the number of DN CAs for 64K CSD.

Software Release: 5E9(1) and later
Valid Entries: 1 - 16

Data Rules:

If K64 DNA QTY is entered, K64 DNA must be entered. If K64 DNA and K64 DNA QTY are both entered, CSD must be 1 or 2.

K64 DNA QTY cannot exceed CSD LIMIT. The sum of K64 DNA and K64 DNA QTY cannot exceed 255.

When EKTS is "BASIC" and K64 DNA QTY is entered, K64 DNA QTY must be 1. When EKTS is "CACH" and K64 DNA QTY is entered, K64 DNA QTY must be 1.

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If K64 DNA or K64 DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

4. FORM ENTRIES, 5908-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

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

4.2 SUST

Description: Is termination denied for circuit-switched services?

Required Field.
Default: N
Valid Entries: Y, N

4.3 ICP

Description: Are terminating calls to be routed to regular intercept?

Required Field.
Default: N
Valid Entries: Y, N

4.4 CA

Description: The button number associated with the first Call Appearance for a CKT TN or CKT MLHG/TERM. A single TN in a voice application can have several appearances at an ISDN set and can be associated with a primary TN or an MLHG member. The CA field and the CA QTY field define the buttons on the ISDN set where multiple call appearances are located.
Valid Entries: 1 - 254

Data Rules:

For 5E9(1) and later, the range of CAs (see description of CA QTY) cannot overlap with the range of any of the following: DPKT DNAs, K56 DNAs, K64 DNAs, or ODB DNAs.

4.5 CA QTY

Description: Call Appearance Quantity. The consecutive number of buttons that this CKT TN or CKT MLHG/CKT TERM combination appears at on the CPE. These consecutive buttons start with the entry assigned in the CA field. For example, if CA is 12 and CA QTY is 6, then buttons 12 through 17 would represent call appearances for the given CKT TN or CKT MLHG and TERM.
Valid Entries: 1 - 16

Data Rules:

Because a CPE terminal has a maximum of 254 buttons, the sum of the values entered in the CA and CA QTY field cannot exceed 255. For example, if CA is 240 and CA QTY is 15, then buttons 240 through 254 would represent call appearances for the given CKT TN or CKT MLHG and TERM. The sum of the CA and CA QTY fields is 255 and the last available ISDN set button has been appropriated.

If the CSV field is "2", then this field must not be entered.

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If a SHTN form (5902 Record) has an entry in the TN field and no entry in either the MLHG or TERM fields, and this TN appears in the CKT TN field of a DSLUSR form, then the CA QTY must be greater than or equal to any NBR entered in the SHARED LIST on the SHTN form. Thus, when a primary TN on a given ISDN set with a particular quantity of call appearances is also a secondary TN on another ISDN set, the secondary TN must have an equal or greater quantity of call appearances entered.

If the CKT TN has been assigned an Electronic Directory Service feature that is defined on a EDSFD form (5961-1 Record) with at least one of the four FEATURE OPTIONS "Y", then the CA and CA QTY fields on this DSLUSR form must both be entered.

If the CKT TN has been assigned an ISDN Intercom feature, then the CA and the CA QTY field must be entered.

If the CKT TN or the CKT MLHG/TERM has been assigned a Multiway Feature that will be invoked by dialing a code or optionally pressing a feature button, then the ISDN terminal must have at least two call appearances. That is, if the Multiway Feature is defined on the MWFD form (5602 Record) with the DIAL CODE or BUTTON field "Y", then one of the following must be true. Either CA QTY on the DSLUSR form must be greater than 1 or the CKT TN (or MLHG/TERM) must appear in the SHARED LIST of an SHTN form (5902 Record) where the CKT TN (MLHG/TERM) is not the key TN (MLHG/TERM).

If a directory number or a multiline hunt group member is assigned a directed call pickup feature that can barge-in on held calls, then that number or member must have only one call appearance. That is, if a CKT TN or CKT MLHG/CKT TERM is assigned a Call Pickup Terminating feature on the LINEFA, MLHLNFA, BFG or CLUSTR form and the feature was defined on a PUTFD form with a FEATURE FUNCTION of "HDIRPUBRG", then the CA QTY field must be either blank or "1".

4.6 BRCS

Description: Are BRCS features assigned to this line?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then either the CKT TN on this form must appear in the TN field on a LINEFA form or the CKT MLHG and CKT TERM must appear in the MLHG and TERM fields, respectively, on an MLHLNFA (5113 Record). Enter "N" if either of the above cases does not apply.

Note: More than two Circuit-Switched Voice users with BRCS features on the same DSL will affect MP-DSL performance.

4.7 TERM TYPE

Description: The ISDN Customer Premises Equipment terminal type.

Valid TERM TYPE Entries

Entry	Definition
ATND	ISDN Attendant Terminal.
TYPEA	Terminal with a single Telephone Number or MLHG member where the subscriber can control multiple concurrent calls.
TYPEB	Terminal with a single Telephone Number or MLHG member and TMF (Terminal Management Function). TMF provides management capabilities of call appearance buttons on the terminal.

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TYPEC	Terminal with TMF and button management within the terminal itself. The terminal translates call appearance numbers to specific buttons on the terminal.
TYPED	Terminal C with TMF performed by the 5ESS Switch. This terminal may have multiple DNs and must have TMF capabilities on the 5ESS Switch.
TYPEE	Circuit-Switch Data Terminal. If the RMB or STH field are entered, then "TYPEE" must be entered in this field.

Data Rules:

If the DSL form (for this DSL) has D SERV "SONLY", indicating an ISDN Attendant, then this field must be "ATND". Conversely, if TERM TYPE on this form is "ATND", then the DSL form, for this DSL, must have the D SERV field "SONLY".

Numerous dependencies exist between the TERM TYPE field and other fields on this form. Refer to Figure 2, which illustrates these dependencies.

PODs service requires that this field be left blank.

For 5E8 and later, since entry to any of the National ISDN fields AGI, CSV ACO, CSV LIMIT, CSD ACO, CSD LIMIT, or EKTS requires a TERM TYPE of "TYPEA" or "TYPEC", National ISDN does not directly support PODs service. The equivalent of PODs service may be achieved by not assigning BRCS features and by not entering any of the "STD" specific fields on the DSLUSR form when DSL CLS is "STD" on the associated DSL form.

For 5E8 and later, when either CKT TN or CKT MLHG/TERM is entered:

- if EKTS is entered, TERM TYPE must be "TYPEC";
- if CSV ACO, CSD ACO, or CSV LIMIT is entered, or if CSD LIMIT is entered and EKTS is not entered, then TERM TYPE must be "TYPEA";
- if DSL CLS is "STD" on the associated DSL form, then on this DSLUSR form TERM TYPE must be "TYPEA" or "TYPEC";if EKTS is not entered, TERM TYPE must be "TYPEA";
- if TERM TYPE is "TYPEB", "TYPEC", "TYPED", or "ATND", and DSL CLS is not "STD" on the associated DSL form, then CA must be entered on this DSLUSR form ;
- if DSL CLS is not "STD" on the associated DSL form, and TERM TYPE on this form is not "TYPEE", then CA QTY must be entered.

For 5E11 and later:
When TERM TYPE is "ATND", "TYPEB", or "TYPED", CSV must not equal "2".

For 5E12 and later:
If TERM TYPE is "ATND", and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", and the value of DSL OE on the DSLUSR form matches the DSL OE field on the DSL form, then the DSL CLS field on the DSL form must be set to "PP".

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND" and the value of DSL OE on the DSLUSR form matches the DSL OE field on the DSL form, then the DSL CLS field on the DSL form must be set to "PP" or "MP".

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If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the following fields must be set to "N" on the DSLUSR form.

- INCOMING
- INTERCOM
- ORIG CW
- PP

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the ERCO ASGN and SHARED fields must be set to "N" on the DSLUSR form.

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the CKT MLHG must be entered.

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the SAR NUM must not be entered.

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the ATT MLHG and RBV TGN fields must not be entered, and the SAR ORIG and SAR TERM fields must be set to "N".

If TERM TYPE is "TYPED" and CKT LCC and CKT RAX values match the LINE CLASS CODE and RATE AREA values on the associated LCC form having the CLASS OF SERVICE of "ISATND", the CKT MLHG and CKT TERM fields from the DSLUSR form must not be SHARED LIST MLHG and SHARED LIST TERM NBR on the SHTN form.

When the DSLUSR form has TERM TYPE set to "TYPED", and entries for CKT LCC and CKT RAX values are defined on the LCC form with the CLASS OF SERVICE set to "ISATND", Secured Feature SFID 292 ACT field must be set to "Y" on the SFSYS form. If this Secured Feature is not purchased, the DSLUSR forms must have TERM TYPE set to "ATND".

When the DSLUSR form has TERM TYPE set to "TYPED", and D SERV on the associated DSL form is "SONLY", CLASS OF SERVICE on the corresponding LCC form must be "ISATND".

When a DSLUSR form has a value of CKT MLHG, and has CKT LCC and CKT RAX values that match the LINE CLASS CODE and RATE AREA values of an associated LCC form, and the LCC form has a CLASS OF SERVICE of " ISATND", the TERM TYPE must be "ATND" or "TYPED" on the DSLUSR form.

When the LINE CLASS CODE and RATE AREA are assigned on the LCC form with a CLASS OF SERVICE of "ISATND", the corresponding TERM TYPE on the DSLUSR form must be set to "ATND" or "TYPED".

When the MLHG form has an MLHG FEATURE value that matches FEATURE NAME on the associated MLHGFD form, and MLHG on the MLHG form matches the value of one or more DSLUSR forms, and the HUNT TYPE on the MLHGFD form is ISAT, then the TERM TYPE on the corresponding DLSUSR form must be "ATND" or "TYPED".

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4.8 CONFIG GRP

Description: The Configuration Group name that describes feature actions assigned to CPE terminal buttons.
Valid Entries: 1 - 8 characters.

Data Rules:

The Configuration Group entered must be defined in the CONFIG GRP field on a CFGGRP form (5964 Record).

If the Configuration Group has an ACTION of "BYGP" (Group Make Busy) specified where the MLHG FEATURE is defined on an MLHGFD form with a HUNT TYPE not equal to "ISAT". Only the first member of an MLHG can activate must not be entered.

If the CKT MLHG is defined on an MLHG form with an MLHG FEATURE defined on an MLHGFD form with a HUNT TYPE of "ISAT" (ISDN Attendant), this field must be entered.

For 5E8 and later, when CONFIG GRP is entered, and DSL CLS is "STD" on the associated DSL form, the CONFIG GRP must be defined on a CFGGRP form where GRP TYPE is set to "STD"; if DSL CLS is not "STD", GRP TYPE must be "CUSTOM".

5. FORM ENTRIES, 5908-4 RECORD

5.1 BASE AND CONTROL, ESS UNIT

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

5.2 DISPLAY

Description: Is there a display module on the station set?

For 5E9(1) and later, the meaning of the DISPLAY field is changed for Standard DSL users. If DISPLAY is "Y", the user will receive all Standard Displays (incoming, outgoing, and feature displays). Assigning an ICLID feature merely provides the user the calling DN in the Standard Display.

For Custom DSL users to receive call-related displays, Line Identification features (ICLID/OCLID) must be assigned to the user, and DISPLAY must be set to "Y".

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This field must be "Y" if the CKT TN or the CKT MLHG/CKT TERM combination are assigned a Display feature on a DISPFD form (5965 Record) where the INSPECT field and/or the TIME DATE field are "Y".

This field must be "Y" if the CONFIG GRP field has an entry which is defined on a CFGGRP form with a LASS Customer Originated Trace feature assigned to a button. The LASS Customer Originated Trace feature is defined in the FEATURE field on a LSCOTFD form (5972 Record). The feature displays a number to call to report harassing phone calls.

If the CKT TN or the CKT MLHG/CKT TERM are assigned a Message Service System feature and the feature is defined on a MSFD form (5962-1 Record) with the MSG RTRVL DISP field "Y", then this field must be "Y".

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If the TIME MODE field is "Y", indicating the use of a 24-hour clock, then this field must be "Y".

5.3 EKTS

Description: This field specifies the type of EKTS (Electronic Key Telephone Service) provided for Standard DSL users.

Software Release: 5E8 and later
Valid Entries:

Valid EKTS Entries

Entry	Definition
BASIC	Restricts the user to one call appearance.
CACH	Permits access to more than one call appearance for each telephone number.

Data Rules:

If either CKT TN or CKT MLHG/TERM is entered:

- if EKTS is entered, DSL CLS must be "STD" on the associated DSL form; on this DSLUSR form, TERM TYPE must be "TYPEC"; CSV LIMIT cannot be entered; CPN SCRN must be "Y"; furthermore,
  - — if EKTS is "BASIC, and CKT MLHG is entered, CKT SWITCHING MLHG TN must be entered;
  - — if EKTS is "CACH", both CA and CA QTY must be entered;
  - — if the EKTS user is assigned CSD service, CSD LIMIT must be 1 for service to be available;
- if EKTS is not "BASIC" and TERM TYPE is "TYPEC", CA must be entered;
- if EKTS is not entered:
  - — if CSD LIMIT is entered, TERM TYPE must be "TYPEA";
  - — if DSL CLS is "STD" on the DSL form, neither CA nor CA QTY can be entered;
- if DSL CLS is "STD" on the associated DSL form, and the CKT TN or CKT MLHG/TERM from this DSLUSR form appears in the SHARED LIST on an SHTN form, then a value must be entered in EKTS.

For 5E9(1) and later, if EKTS is "BASIC", CA and CA QTY must not be entered. If EKTS is "CACH", SP DNA, SP DNA QTY, AU DNA, and AU DNA QTY must not be entered.

5.4 SHARED

Description: Is this CKT TN or this CKT MLHG/CKT TERM combination shared (i.e., appear on more than one terminal)?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

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If "Y" is entered, then the CKT TN or the CKT MLHG/CKT TERM combination must be defined in the optional key TN field or in the optional key MLHG and TERM NBR combination on an SHTN form.

If "N" is entered, then the CKT TN or the CKT MLHG and CKT TERM combination must not be defined in the optional key TN field or in the optional key MLHG and TERM NBR combination on an SHTN form.

If the CKT MLHG and CKT TERM combination appear in the MLHG and TERM fields of a MULTITN form (5114 Record), and the associated LCC is defined on a LCC form with a CLASS OF SERVICE of "ISATND" or "ISAT", this field must be "N".

MLHGs which are used as Message Service Centers, in conjunction with the Application Processor, must have all their members with this field set to "N". The MLHG which is used for this purpose is defined on an MLHG form with the AP SITE ID field or one of the BCID fields entered.

5.5 PRIVACY

Description: Is all-call privacy allowed? PRIVACY prevents TN information from being displayed to the called party for all calls.

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.

Default: N (5E9(1) and later)
Valid Entries: Y, N

Data Rules:

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All-call privacy can be deactivated on a per-call basis by the per-call privacy feature. See the PCP ALW field.

5.6 TIME MODE

Description: Should the time displayed on ISDN Terminals be in a 12-hour format? If so, enter "Y". If not, the default ("N"), is a 24-hour format. All features that display the time use the format entered in this field.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the TERM TYPE field is not entered, then the TIME MODE field must be "N".

To display the time on an ISDN Terminal, the DISPLAY field must be "Y".

5.7 AC ALW

Description: Does the customer want access to the LASS (Local Area Signaling Services) Automatic Callback indicator feature?
Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN" or "ISATND", then ODA assigns a "Y" in this field.

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

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

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

5.8 AR ALW

Description: Does the customer want access to the LASS Automatic Recall indicator feature?
Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN" or "ISATND", then ODA will assign a Y in this field.

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

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

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

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5.9 COT ALW

Description: Does the customer want access to the LASS Customer Originated Trace?
Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN" or "ISATND", ODA assigns a "Y" in this field.

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

If the TERM TYPE field is not entered, this field will be assigned a "N" by ODA.

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

5.10 PCP ALW

Description: Does the customer want access to the LASS Per-Call Privacy?
Valid Entries: Y, N

Data Rules:

If this field is left blank and the associated CLASS OF SERVICE on the LCC form is "ISDN" or "ISATND", then ODA will assign a Y in this field.

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

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

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 SCRIDXPA form (5543 Record).

If CKT TN or CKT MLHG/TERM(s) have a PCP ALW value of "Y", the CKT TN or CKT MLHG/TERM must also be entered on this form with an LCC/RAX value that corresponds to one of the following CLASS OF SERVICEs on the LCC form (5306 Record):

"2PTY"
"4WINDIV"
"ATND"
"B911"
"CHGCALL"
"COIN"
"HOTMOTL"
"HOTPBX"
"INDIV"

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"ISATND"
"ISDN"
"LTPCLBK"
"PBX
"SATSTLN"
"TWOPTY"

In addition, the CLASS OF SERVICESs
"2PTY",
"CHGCALL",
"COIN",
"HOTMOTL",
"HOTPBX", and
"TWOPTY"

are valid only when the SFSYS form (5713-1 Record) has SFID 50 ACT field set to "Y".

5.11 SCA GA ALW

Description: Does the customer want access to the LASS Selective Call Acceptance feature?

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, "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".

If the TERM TYPE field is not entered, this field will be assigned a "N" by ODA.

5.12 SCF GA ALW

Description: Does the customer want access to the Generally Available LASS Selective Call Forwarding feature?

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", ODA assigns a "Y" in this field. Otherwise, "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".

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

5.13 SCR GA ALW

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Description: Does the customer want access to the Generally Available LASS Selective Call Rejection feature?

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, "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".

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

5.14 SDA GA ALW

Description: Does the customer want access to the Generally Available LASS Selective Distinctive Alert feature?

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", ODA assigns a "Y" in this field. Otherwise, "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" or "PBX".

If the TERM TYPE field is not entered, this field is assigned a "N" by ODA.

5.15 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.
Required Field.
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.

DSLUSR 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".

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5.16 FLS

Description: Will free terminating service be activated? With FLS, all calls terminating to this TN are not billed.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The "Y" option usually applies only to direct connect and manual lines.

5.17 SUSO

Description: Should originating service be denied or suspended?

Required Field.
Default: N
Valid Entries: Y, N

Data Rule:
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.

5.18 CONTEXT ID

Description: This field is used to indicate whether or not a DSL (Digital Subscriber 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 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 CKT TNs or CKT MLHG/CKT TERMs on the DSLUSR form, when the CONTEXT ID field is set to "R" or "RESOLD" or, "U" or "UNBUNDLED" , the ACT field for SFID (Secured Feature ID) 321 on the SFSYS form (5713-1 Record) must also be set to "Y".

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For CKT TNs or CKT MLHG/CKT TERMs on the DSLUSR form, when the CONTEXT ID field is set to "R" or RESOLD" or, "U" or "UNBUNDLED", there must be an LCC form (5306 Record) where the RAX and LCC has a CLASS OF SERVICE of "ISATND" or "ISDN".

5.19 COMPL

Description: Complaint observing is used for customers who question their message rate bills. Does the customer want a detailed AMA record generated on all originating calls from this line, either answered or unanswered, except when the call encounters a Charge Index defined with a Call Type of "FREE"?

Required Field.
Default: N
Valid Entries: Y, N

5.20 SLUS

Description: Subscriber Line Usage is used for customers who question their message rate bills. Does the customer want a detailed AMA record generated on all originating calls from this line, either answered or unanswered, except when the call encounters a Charge Index defined with a Call Type of "FREE"?

Required Field.
Default: N
Valid Entries: Y, N

5.21 BRITL ALW

Description: Should the user be allowed to call a billed BRITL (BRI Dial Up Test Line)? If BRITL ALW is "Y", the circuit-switched voice user may test the operation of the DSL by placing a call to a preassigned DN. The bill for accessing the test line will be based on the duration of the call.

This field does not affect access to nonbilled BRITLs.

For more information about the BRITL feature, see Division 2, Section 2U.

Software Release: 5E6 and later
Valid Entries: Y, N

5.22 DTLBILL

Description: Detailed Billing is used for customers who question their message rate bills. Does the customer want a detailed AMA record generated on all originating calls from this line, either answered or unanswered, except when the call encounters a Charge Index defined with a Call Type of "FREE"?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The only difference between COMPL, SLUS and DTLBILL is the designation set in the AMA record.

5.23 TRAFFIC

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Description: Should a Traffic Sampling Study be activated?

Required Field.
Default: N
Valid Entries: Y, N

5.24 SAR NUM

Description: This field defines the number of call appearances to be reserved (subaddresses) for originating or terminating calls.
Valid Entries: 1 - 16

Data Rules:

The value entered in this field must not be greater than the value entered in the CA QTY field. If the number of subaddress reservations is less than the value in the CA QTY field, the subaddresses reserved are the last call appearances. For example, if CA is 1, CA QTY is 6 and SAR NUM is 2, then call appearances 5 and 6 are reserved.

If the SAR NUM field is not entered, then the SAR ORIG and SAR TERM fields must be "N".

If the SAR ORIG and SAR TERM are both "N", then this field must not be entered.

5.25 SAR ORIG

Description: The subaddress origination reservation. Any attempt to terminate to the subaddress results in a busy signal. Originations are handled normally.

Required Field.
Default: N
Valid Entries: Y, N

5.26 SAR TERM

Description: The subaddress termination reservation. Any attempt to originate on this subaddress will be denied. Calls terminate normally.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If one of the INCOMING, INTERCOM, ORIG CW or PP fields is "Y", then the SAR ORIG and SAR TERM fields must be "Y". Conversely, if the SAR ORIG and SAR TERM fields are both "Y", then at least one of the INCOMING, INTERCOM, ORIG CW or PP fields must be "Y".

5.27 NONHUNT

Description: Is this terminal a non-hunt terminal? NONHUNT allows a line in a CKT MLHG to receive direct calls that do not hunt if the called line is busy.

Required Field.
Default: N

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Valid Entries: Y, N

Data Rules:

Non-hunt TNs may be assigned to terminals within a MLHG. Any terminal may be assigned a non-hunting TN.

Non-hunt TNs interact with the group features in the following way:

- 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 will not be 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.

All non-outdial terminals (CKT TERM is 1 to 2015) with this field "Y" must have a CKT MLHG TN entered.

All outdial terminals (CKT TERM is 3001-3999) must have this field "Y".

If NONHUNT is "Y", then the associated TERMINATING TREATMENT on a LCC form must be "MLHG" or "INWATS".

If NONHUNT is "Y", then the CKT MLHG, defined on the MLHG form, must have an MLHG FEATURE that is defined on an MLHGFD form with a HUNT TYPE of "HTC", "REG", "UCD", "ISAT" or "PMHG".

NONHUNT must be "Y" when the fields MLHG and TERM NBR are defined on the SHTN form (5902 Record).

5.28 CA PREF

Description: The ISDN Terminal Call Appearance Preference. This field indicates the call appearance to select when a user goes off-hook.

Required Field.
Default: I
Valid Entries:

Valid CA PREF Entries

Entry	Definition
I	Idle call appearance preference. When a user goes off-hook, the call appearance which is currently idle is automatically selected and the user receives dial tone. If no call appearances are idle, then no call appearance is selected.
R	Ringing call appearance preference. When a user goes off-hook, the call appearance which was alerting first is automatically selected and the user is connected to the calling party. If no call appearances are alerting, then an idle call appearance is selected.

5.29 DNY BV

Description: Should the Deny Busy Verification feature be activated?

Required Field.
Default: N
Valid Entries: Y, N

5.30 TRC

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Description: Should call tracing on calls to this line be activated?

Required Field.
Default: N
Valid Entries: Y, N

5.31 DNY ROH

Description: Should Deny Receiver Off-Hook tone be activated?

Required Field.
Default: Y
Valid Entries: Y, N

6. FORM ENTRIES, 5908-5 RECORD

6.1 BASE AND CONTROL, ESS UNIT

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

6.2 BUSY MONITOR

Description: Can the CKT TN entered for this DSL Multiline terminal be monitored by the Busy Lamps of an ISDN Attendant MLHG?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the CKT TERM or DPKT TERM fields are "1", then this field must be "N".

If this field is "Y", then either a CKT TN and OE or an MLHG TN and OE must be entered.

If the SAR NUM and CA QTY fields have equal entries, this field must be "N".

If this field is "Y", then the LCC and RAX (under the CKT SWITCHING header) must be defined on a LCC form with a CLASS OF SERVICE of "ISDN".

If BUSY MONITOR is "Y", ATT MLHG must be entered.

6.3 ATT MLHG

Description: The ISDN Attendant MLHG that can busy monitor this TN.

Software Release: 5E7 and later.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

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The value entered in this field can also appear in the ATT MLHG field on a LINE form, an MLHLN form, an MLHG form or an SHTN form. When it appears on any of the previously mentioned forms or this form, and also appears in the CKT MLHG field on this form, the LCC and RAX for the ATT MLHG must be defined on an LCC form with a CLASS OF SERVICE of "ISATND" or "ATND".

If this field is entered and CKT TERM is "001", then the CKT MLHG must be defined on an MLHG form with ATT MLHG equal to the ATT MLHG on this form.

An ISDN Attendant cannot busy monitor a Hundreds Group if the Hundreds Group has physical terminations on more than 13 Switching Modules.

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

6.4 RBV TGN

Description: Enter the RBV TGN of the incoming trunk group used to Remote Busy Verify the CKT TN (DN) or the CKT SWITCHING MLHG TN 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 CKT TN (DN) or CKT SWITCHING MLHG 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, either a CKT TN or a CKT SWITCHING MLHG TN must be entered, BUSY MONITOR must be "N", and CSV must be entered and greater than zero.

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, and CKT MLHG and CKT TERM are entered, CKT MLHG must equal MLHG on a corresponding MLHG form. That MLHG form must have MLHG FEATURE equal FEATURE NAME on a corresponding MLHGFD form, which must not have HUNT TYPE set to "MUPH", "ISAT", or "PSUCD".

6.5 SERHLN

Description: A Series Completing to Telephone Number. Series Completion supports BRI (Basic Rate Interface) lines for CSV (Circuit-Switched Voice) calls. SERHLN hunts a linked-list DN until an idle line is found or until 16 Series Completion attempts are made. A maximum of 50 TNs can Series Complete to a single TN defined on this form or on the LINE, MLHLN or SHTN forms.

Software Release: 5E6 and later
Valid Entries:
For 5E11 and earlier: 7-digit number, 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

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Data Rules:

SERHLN cannot be entered when CKT ICP is "Y".

A maximum of 512 TN(s) are allowed to Series Complete to a single TN which is entered in the SERHLN field on the the LINE, MLHLN, DSLUSR or SHTN forms.

When SERHLN is entered, the CKT TN field or the CKT MLHG TN must be entered; however, SERHLN cannot have the same entry as CKT TN or CKT MLHG TN. When each of these three fields are entered, NONHUNT must be "Y".

When SERHLN is entered the following must be true:

- TERM TYPE and LCEN (or ILEN) must be entered,
- The LCC must be defined on an LCC form where:
  - for a CKT TN, TERMINATING TREATMENT must be "INDIV";
  - for a CKT MLHG/TERM, TERMINATING TREATMENT must be "MLHG" or "INWATS".

For 5E7 and later, if Series Completion is allowed (SERHLN is entered), one of the following conditions must be satisfied:

1. the SERHLN assigned on this form matches a CKT MLHG TN on a DSLUSR with ICP (intercept) of "N".
2. the SERHLN must be defined on a LINE form (as TN) with ICP (intercept) of "N". The LCC/RAX must match LCC/RAX on LCC form with a TERMINATING TREATMENT of "INWATS", "PARTY", "RI", or "INDIV".
3. the SERHLN matches a CKT TN on a DSLUSR form with ICP of "N".
4. the SERHLN must be defined on an MLHLN form (as TN) with ICP of "N". The LCC/RAX must match LCC/RAX on an LCC form with a TERMINATING TREATMENT of "INWATS" or "MLHG".
5. the SERHLN matches an STN on an SHTN form where SMLHG/SMEMB is not entered, STN does not match TN in row 1 of the SHARED LIST, and ICP is "N".
6. the SERHLN matches an STN on an SHTN form where SMLHG/SMEMB is entered, SMLHG/SMEMB does not match MLHG/MEMB in row 1 of the SHARED LIST, and ICP is "N".
7. the SERHLN assigned on a DSLUSR form must be defined on the LINE form, MLHLN form, DSLUSR form, SHTN form or as LISTED TN on an MLHG form.

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

For 5E12 and later, if the SERHLNs on the DSLUSR form have SERHLN entered, the equivalent 10-digit SERHLN cannot equal the equivalent 10-digit CKT MLHG TN on the same DSLUSR form.

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For 5E12 and later, if the first 3 digits of the 7-digit SERHLNs on the DSLUSR form are equal 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, SERHLN must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

6.6 BCK LNK

Description: Does any other TN series complete to this CKT TN? This is a Recent Change only field on the 23.2 view. It cannot be entered on the ODA form.

Software Release: 5E6 and later.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then ICP must be "N" and TERM TYPE must be entered.

6.7 QUEUE MONITOR

Description: Does the ISDN terminal monitor MLHG queuing data? This is a Recent Change only field on view 23.2. It cannot be entered on the ODA form.

Software Release: 5E6 and later.
Valid Entries: Y, N

Data Rules:

If QUEUE MONITOR is "Y", then CONFIG GRP and TERM TYPE must be entered.

6.8 EPO POS NUM

Description: Enter the EPO (Enhanced Professional Office) position number. This number is used to associate an EPO position number with a Custom ISDN terminal and uniquely identifies each EPO terminal. When a terminal is designated as an EPO position, circuit telephone numbers and circuit MLHG (Multi-line Hunt Group) members, which have call appearances on the terminal, can be tracked for call and event information. This information is sent to the MIS (Management Information System). Assigning an EPO POS NUM to a terminal provides the ability to track circuit telephone numbers or circuit MLHG members. Whether or not each individual telephone number or MLHG member is tracked depends on how the EPO ON field is set. Tracking can be assigned for the primary CKT TN of the terminal by setting EPO ON to "Y" on this form. For circuit telephone numbers or circuit MLHG member which share call appearances on this terminal, tracking is determined by the EPO ON fields on SHTN form (23.20 or 23.21 views). This field supports the Enhanced Professional Office secured feature (SFID 179). For more information on this feature, see Division 2, Section 4A179.

Software Release: 5E11 and later.
Valid Entries: 1 - 15000

Data Rules:

The EPO POS NUM field on the DSLUSR form is used by the Enhanced Professional Office Feature. It is a Secured Feature that must be purchased by the office before EPO POS NUM can be entered. An SFSYS form must exist with SFID 179 ACT set to "Y".

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EPO POS NUM(s) must be unique, they cannot be duplicated on another DSLUSR form.

EPO POS NUM and ACD POS NUM cannot both be entered.

If EPO POS NUM is entered:
CSV must be entered
TERM TYPE must be "TYPEB" or "TYPED"

If a CKT TN, CKT MLHG, or CKT MLHG/CKT TERM field is entered and also has an entry in EPO POS NUM, then:

- the corresponding DSL form (where DSLUSR OE matches DSL form DSL OE) must not have a DSL CLS of "STD".
- the CKT LCC/CKT RAX values on the DSLUSR form must have a CLASS OF SERVICE of "ISDN" on the associated LCC form.

6.9 EPO ON

Description: Should the CKT TN or the CKT MLHG and CKT TERM be tracked? When "Y" is entered and the terminal has been designated as an EPO position, event information for calls and events to this CKT TN or CKT MLHG and CKT TERM is sent to the MIS (Management Information System). The information includes reports on terminal usage, status, event codes, and call-related events associated with the tracked CKT TN or CKT MLHG and CKT TERM. The MIS compiles the call data and provides user reports and display to each customer.

The information is sent to the MIS only when EPO ON is "Y" and EPO POS NUM is entered on this form. If "N" is entered or the terminal is not defined as an EPO position, no tracking will be performed for calls to or from this terminal.

The value of EPO ON can be modified for the CKT TN on the SHTN form (5902 Record) (23.20 or 23.21 views). For CKT TN or CKT MLHG members other than the primary CKT TN, which share call appearances on this terminal, tracking is always determined by the EPO ON fields on the SHTN form.

Software Release: 5E11 and later.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, ACD POS NUM cannot be entered.

When DSLUSR forms have the CKT TN or CKT MLHG field entered and also have the EPO ON field set to "Y", the corresponding DSL form (where DSLUSR OE matches DSL form DSL OE) must not have a DSL CLS of "STD".

6.10 ACD POS NUM

Description: This attribute uniquely identifies an ACD/BRCS position. When this attribute has a value other than 0, this terminal is an ACD/BRCS position.

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ACD/BRCS positions are required to have the following characteristics:

- circuit switch voice service
- service class of "ISDN"
- position DN which is primary

ACD/BRCS positions are not allowed to have the following characteristics or features:

assigned to a Bellcore Standard BRI
a shared primary (position) DN
assigned series completion DNs
a primary or secondary DN that is a MLHG member
a circuit switched MLHG member

For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.

Software Release: 5E9(1) and later
Valid Entries:

For 5E9(1) - 5E10: 1 - 4095
For 5E11 and later: 1 - 9999

Data Rules:

ACD POS NUM on the DSLUSR form must be a unique entry and cannot be entered on another DSLUSR form.

For 5E9(1) - 5E10, it cannot be entered as POS NUM on the OSPSOP form.

No more than 512 ACD POS NUM values may be assigned to the same SM on the DSLUSR form.

If ACD POS NUM is entered

BRCS must be "Y"
CSV must be entered.
CKT MLHG cannot be entered
CKT TN must be entered.
SERHLN cannot be entered
SHARED must be "N"
TERM TYPE must be "TYPEB" or "TYPED"

For 5E11 and later:

ACD GROUP must be entered
EPO POS NUM cannot be entered

If ACD POS NUM and CKT TN fields are entered, then:

- the corresponding DSL form (where DSLUSR OE matches DSL form DSL OE) must not have a DSL CLS of "STD".
- The telephone number must have the required IDP and/or TGSR features must be assigned on the LINEFA form, CLUSTR form or associated BFG form.
- For the IDP feature, A (ACTIVE) should be "Y". For the TGSR feature, if A (ACTIVE) is "Y", then the

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nondefault TGSR attributes remain active when an agent is logged in or logged off. However, if A (ACTIVE) is "N", then the default TGSR attributes are active when the agent is logged off and the nondefault TGSR attributes are active when the agent is is logged on.

- this CKT TN must have one and only one CFW feature with FWD CONDITION of "ACDI" on the associated CFWFD form, which is assigned on the LINEFA form, CLUSTR form or associated BFG form with "Y" entered in the A (ACTIVE) field.
- the CKT TN must not be assigned to a PP feature, an ACVT feature, or an ACSR feature on the LINEFA form, CLUSTR form or associated BFG form.
- the CKT TN must have exactly one MW feature with MULTIWAY CONTROL of "3WAY" and FEATURE BUTTON set to "Y" on the associated MWFD form, which is assigned on the LINEFA form, CLUSTR form or associated BFG form.
- the CKT TN may not be the PRIMARY TN (in SHARED LIST position 1) for any Key MLHG/TERM NBR on the SHTN form.
- the associated LCC/RAX value on the DSLUSR form must have the SERVICE CLASS of "ISDN" on the LCC form.

ACD POS NUM may not be entered on the DSLUSR form unless "Y" is entered in SFIDs 121 and 122 on the SFSYS form (5713-1 Record). ACD POS NUM assignment is for the secured feature ACD/BRCS and must therefore be purchased by the Office before they may be assigned on the DSLUSR form.

5E11 and later.
If EPO ON is "Y", ACD POS NUM cannot be entered.

6.11 ACD GROUP

Description: Enter the Automatic call distributor group. This field uniquely identifies a sub-terminal group to allow customers to divide their call centers into smaller groups. This allows different groups to exist within the same ACD customer with the same level of security that exists between different ACD customers. This field supports the ACD/BRCS Position Provisioning secured feature (SFID 122). For more information on this secured feature, see Division 2, Section 4A122.

Over a retrofit from 5E10 to 5E11, if ACD POS NUM is entered, this field is set to 1. If ACD POS NUM is not entered, this field is also not entered.

Software Release: 5E11 and later.
Valid Entries: 1 - 999

Data Rules:

If ACD POS NUM or ACD GROUP is entered, both must be entered.

7. FORM ENTRIES, 5908-6 RECORD

7.1 BASE AND CONTROL, ESS UNIT

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

7.2 CIDIAL

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Description: Carrier Interconnect Dialing Permissions.

Required Field.
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 when making a carrier interconnect call.
DENY	The customer cannot dial an FGD CAC.
REQ	The customer is required to dial an FGD CAC when making a carrier interconnect call. A PIC may not be assigned to lines with this CIDIAL type.
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 a CI test line only.

Data Rules:

For 5E9(2) and later, PIC is not allowed for lines that require carrier access code dialing, therefore, if "TREQ" or "REQ" is entered, PIC cannot be entered..

If "REQ" or "TREQ" is entered, PTC must not be entered.

7.3 PIC

Description: A PIC (Pre-subscribed InterLATA Carrier identification number) assigned to a DSL.
Valid Entries: 0 - 9999

Data Rules:

This entry is not valid when CIDIAL is "REQ" or "TREQ".

For 5E8 and later, if PIC is entered, then on the ICF form (5305 Record) the CARRIER ID must match the PIC entry and FEAT GRP must be "D".

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

7.4 PTC

Description: Enter the PTC (Presubscribed IntraLATA Toll Carrier). This field supports the ICLATA (InterLATA Carrier's IntraLATA Capability) secured feature. For more information on the ICLATA feature, see Division 2, Section 4A149.

Software Release: 5E9(1) and later.
Valid Entries: 0 - 9999

Data Rules:

The PTC field is used by the ICLATA Secured Feature. This feature must be purchased by the office before the field can be entered. The SFID 149 ACT field must be set to "Y" on the SFSYS form (5713-1 Record), before PTC can be entered.

If the PTC field is entered, then the PTC must be entered as a CARRIER ID on the ICF form (5305 Record).

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7.5 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 DSLUSR form must be defined as CARRIER ID on the ICF form with FEAT GRP equal to "D".

7.6 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.

7.7 INCOMING

Description: Are incoming calls to a terminal group a priority?

Required Field.
Default: N
Valid Entries: Y, N

7.8 INTERCOM

Description: Are ISDN Intercom calls a priority?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", the SAR ORIG and SAR TERM fields must be "Y".

7.9 ORIG CW

Description: Are originating call waiting calls a priority? This is the ISDN equivalent of call waiting origination.

Required Field.
Default: N
Valid Entries: Y, N

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Data Rules:

If this field is "Y", the SAR ORIG and SAR TERM fields must be "Y".

7.10 PP

Description: Are Precedence and Preemption calls a priority?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", the SAR ORIG and SAR TERM fields must be "Y".

7.11 AUTO HOLD

Description: Does auto hold apply? Auto hold allows an existing call to be placed on hold. If "N" is entered, auto drop applies. Auto drop allows an existing call to be disconnected and a new call appearance to be connected.

Required Field.
Default: N
Valid Entries: Y, N

7.12 ONE TOUCH

Description: Will ONE TOUCH be activated? If "Y", a switch is associated with this feature that will automatically turn on the terminal's speaker phone to answer or originate a call.

Required Field.
Default: N
Valid Entries: Y, N

7.13 LN TYPE

Description: Depending on the line type entered, does the line belong to a Leased Network and does it query the NCP (Network Control Point) data base for routing and charging information?

Software Release: 5E6 and later
Default: NONE
Valid Entries:

Valid LN TYPE Entries

Entry	Definition
IMT	Software Release: 5E9(1) and later. An Inter-Machine Trunk.
NONE	Not a Leased Network line.
NOQRY	A Leased Network line that does not query the NCP data base.
QRY	A Leased Network line that queries the NCP data base.

Data Rules:

If a CKT TN (or MLHG/TERM) is defined with LN TYPE of "QRY", the CKT TN (MLHG/TERM) must not be

assigned a BRCS Authorization Code Feature on the BFG, LINEFA (MLHLNFA) or an associated CLUSTR form.

For a Leased Network line, LN TYPE "QRY" or "NOQRY", the following restrictions apply:

- If a CKT TN is defined and is entered on both an ATHLPA form (5619-5 Record) and a MDRLPA form (5624-4 Record), the corresponding ATH FOR MDR on the ATHLPA form must be "N".
- If a CKT TN is defined, it must also be on at least one ARSLPA form or be assigned an ARS (Automatic Route Selection) Feature on the BFG, LINEFA or an associated CLUSTR form.
- If an MLHG/TERM is defined and is assigned both ATH and MDR Features on MLHLNFA, CLUSTR or BFG (except MDR may not be on BFG), then the ATH FOR MDR on the associated ATHFD or ATHMPA or BFG form must be equal to "N".
- If a CKT MLHG/TERM is defined, it must be assigned an ARS feature on a BFG, MLHLNFA or associated CLUSTR form.
- If a CKT TN (or MLHG/TERM) is defined, the LCC and RAX must be defined on a LCC form with CLASS OF SERVICE equal to "ISDN".
- If a CKT TN is defined and is assigned both ATH and MDR Features on a LINEFA or associated CLUSTR form (excluding the BFG form), then the ATH FOR MDR on the associated ATHFD or ATHLPA form must be equal to "N".

If a CKT TN defined on this form is entered on an ATHLPA form with ATH FOR MDR equal to "Y" and is also entered on a MDRLPA form, then the LN TYPE field on this form must be "NONE" or blank.

The LN TYPE must be "NONE" or blank if: a CKT TN defined on this form is assigned both ATH and MDR Features on BFG, LINEFA or associated CLUSTR forms and the ATH feature is defined on the ATHFD form with ATH FOR MDR equal "Y".

The LN TYPE must be "NONE" or blank if: an MLHG/TERM defined on this form is assigned both ATH and MDR Features on BFG, MLHLNFA or associated CLUSTR forms and it has the parameter ATH FOR MDR "Y" on an ATHMPA, BFG or ATHFD form.

7.14 BLK 1PLUS

Description: Enter the type of blocking on a line if the office has the 1+ blocking/1+ split blocking 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 10xxx-1+ if the carrier dialed is not the pre-subscribed carrier.
NONE	No blocking for 1+ on the line.

Data Rules:

BLK 1PLUS must be "NONE", if the OE TYPE and NUMBER are not entered.

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If CKT TN, CKT MLHG, and CKT TERM are not entered, then BLK 1PLUS must be "NONE".

If BLK 1PLUS is set to either "FULL" or "SPLIT", then 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".

7.15 RMB

Description: The Scan Point Number for CKT MLHG/CKT TERM combinations requiring a Member Make Busy Key assignment (previously called Remote Make Busy).
Valid Entries:

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

Data Rules:

A CKT MLHG can have up to 32 terminals sharing one Scan Point Number for Member Make Busy Keys (previously called Remote Make Busy). Available assignments can be found on the 5840 Record.

For 5E6 and later, RMB can be entered only when CKT MLHG is entered and TERM TYPE is "TYPEE".

7.16 RND MKB

Description: Specify the Random Make Busy scan point.
Valid Entries: A scan point 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	00-31
Scan Point Number	SPN	XX	00-31

Data Rules:

RND MKB can be entered only when CKT MLHG and CKT TERM are entered and CKT TERM is 1 - 2015 (not an Outdial terminal).

RND MKB can only be entered when TERM TYPE is "TYPEE".

This field cannot be entered when the MLHG form has HUNT TYPE equal "ISAT".

RND MKB and RND SUBGP cannot be both entered simultaneously.

7.17 STH

Description: The Scan Point Number for CKT MLHG/CKT TERM combinations requiring a Stop Hunt Key assignment (which stops hunting at the member).
Valid Entries:

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

Data Rules:

The Scan Point Number for Stop Hunt Keys must be unique. Available assignments can be found on the 5840 Record.

8. FORM ENTRIES, 5908-7 RECORD

8.1 BASE AND CONTROL, ESS UNIT

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

8.2 MMB SUBGROUP

Description: For 5E6 and later this field has been renamed as MMB SUBGP.

8.3 MMB SUBGP

Description: The Member Make Busy Subgroup number for the MLHG Terminal.
Valid Entries: 1 - 255

Data Rules:

The number entered here designates a subgroup. All members in the same subgroup must have the same MMB SUBGP number.

This field cannot be entered when the MLHG form has HUNT TYPE equal "ISAT".

CKT TERM must be entered when MMB SUBGP is entered.

The CONFIG GRP entered must be defined on a CFGGRP form with a feature button assigned an ACTION of "BYMB" (Member Make Busy).

It is recommended that if one of the subgroup members resides on a RSM (Remote Switching Module), then all members of the subgroup should reside on the same RSM.

8.4 RND SUBGP

Description: Enter the Make Busy Subgroup Number for the Make Busy ISDN Buttons.

Software Release: 5E7 and later
Valid Entries: 1 - 255

Data Rules:

When TERM TYPE is "ATND", a RND SUBGP cannot be entered.

RND MKB and RND SUBGP cannot both be entered.

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If MMB SUBGP or RND SUBGP is entered, then CKT MLHG/TERM must be specified.

8.5 ERCO ASGN

Description: Assign Executive Ringer Cutoff to a shared DN BRCS line. ERCO allows an ISDN keyset user to press a feature button to turn audible ringing on or off for all incoming voice calls except for ICOM, 911 and Auto Call Back. When ringing is turned off by ERCO, visual alerting at the principal's terminal and the ability to pick up the call still occurs.

The operation of the Executive Ringer Cutoff feature button does not alter call treatment at any of the coverage terminals. In addition, while ERCO is in effect, all other functions on the ISDN keyset are unaffected. Incoming Calls are lighted normally and given standard displays.

ERCO, which is a Secured System Optional feature, and its translation requirements are described in Division 2, Section 4A.

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ERCO ASGN is "Y", then TERM TYPE must not be "ATND" and SHARED must be "Y".

A feature button with its ACTION field "ERCO" is assigned on a CFGGRP form (5964 Record). should be entered in the CONFIG GRP field on this form, if a feature button on the CFGGRP form will be assigned "ERCO".

ERCO can only be assigned if the SFSYS form (5713 Record) indicates that the feature has been purchased and enabled.

8.6 ERCO ACT

Description: This is a Recent Change only field. It is used to activate and deactivate ERCO.

8.7 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:

If LONG DST DR is set to "Y", then LCC and RAX must be defined on an LCC form with a CLASS OF SERVICE of "ATND", "INDIV", "ISATND", "ISDN", or "PBX".

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".

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8.8 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.
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).

If "Y" is entered, then
ACD POS NUM must not be entered.
CKT TERM must not be greater than 2015.
CSV must be entered.
TERM TYPE must be "TYPEA, "TYPEB", or "TYPED".
SERHLN must not be entered.
SUSO must not be "Y".
SUST must not be "Y".

In addition, if "Y" is entered, the following restrictions apply.

- The CKT SWITCHING LCC and RAX must be defined on the LCC form with CLASS OF SERVICE set to "ISDN".
- OE must be defined on the DSL form with DSL CLS set to "MP" or "PP". If DSL CLS is "PP", ACSR GRP on the DSL form must be blank.
- For 5E9(1) and later, if a CKT TN is entered and
  - ACD POS NUM is not entered, then the following types of BRCS features cannot be assigned to the CKT TN (via the LINEFA, CLUSTR, or BFG form):

    ACCT

    ACSR

    ARS

    ATH

    CFW (CFPF ALW is "Y")

    ICM

    MDR

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MS

PFA

PP

PUO

PUT

TGSR

TOD

— ACD POS NUM is entered, the following types of BRCS features cannot be assigned to the CKT TN (via the LINEFA, CLUSTR, or BFG form):

ACCTFD

ACSRFD

ARSFD

ATHFD

CFPF (CFPF ALW is "Y")

ICMFD

MDRFD

MSFD

PFAFD

PPFD

PUOFD

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PUTFD

TODFD

- If CKT MLHG / CKT TERM are entered, then:
  - — the value entered for E911 PSAP must match the E911 PSAP entry on the corresponding MLHG form;
  - — the MLHG member may not be assigned the following types of BRCS features on the MLHLNFA, CLUSTR, or BFG form: ACCT, ACSR, ARS, ATH, CFW (where CFPF ALW is "Y"), ICM, MDR, MS, PFA, PP, PUO, PUT, TGSR, or TOD.
- The CKT TN and CKT MLHG TN may not be series completion DNs on other forms; that is, they may not appear in the SERHLN field on a LINE, MLHLN, DSLUSR, or SHTN form.

For 5E9(1) and later, if "Y" is entered and ACD POS NUM is entered, then the SFID 143 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). This data combination is used by the Pinnacle ACD E911 secured feature that must be purchased by the office before this data combination can be entered.

If "Y" is entered and ACD POS NUM is entered for a CKT TN, then the CKT TN must have a fully unrestricted TGSR (Terminal Group Station Restriction) feature assigned via the LINEFA, CLUSTR, or BFG form. The TGSR feature must be defined on the TGSRFD form with ORIGINATING RESTRICTION field, the ORIGINATING DEFAULT field, the TERMINATING RESTRICTION field, and the TERMINATING DEFAULT field set to "NONE".

8.9 SCP ALW

Description: Is the DSL allowed to receive messages from the SCP (Service Control Point)? This field supports the Network Element Services Signaling secured feature. For more information on this feature, see Division 2, Section 4A185.

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

Before "Y" can be entered in this field, the ASP (Advanced Service Platform) NESS (Network Element Services Signaling) secured feature must be purchased and the SFID 185 ACT field must be "Y" on the SFSYS form (5713-1 Record).

If "Y" is entered:

- CKT TN or CKT MLHG TN must be entered.
- and CKT MLHG is entered, then NONHUNT must be "Y".

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- the corresponding DSL form (DSLUSR OE matches DSL OE) must have a DSL CLS of "STD".

8.10 PASC

Description: Is Personal Communications Access Service - C Interface available? This field is used to indicate if the PCS (Personal Communications Services)/ISDN feature is available on the DSL. Note that effective with the implementation of the PCS/ISDN Interworking feature, the IHN DSL MAINT field was added to the RTERM form to allow several types of DSL testing to be inhibited (see the RTERM form (5174 Record), Division 3, Section 1S). For more information on PCS and INH DSL MAINT, see NI-3 (National ISDN 3) in Division 2, Section 1AM.

The PCS/ISDN Interworking feature is a secured feature and SFID 228 on the SFSYS form must be "Y".

Software Release: 5E10 and later.
Valid Entries: PCSI

Data Rules:

If "PCSI" is entered, CKT TN must be entered.

If "PCSI" is entered, the following fields must not be entered:

AGI
SPDNA
AUDNA
K56DNA
K64DNA
ATTMLHG
RBVTGN
SERHLN
ODB TN
EKTS
ODB MLHG/ODB TERM

If "PCSI" is entered, the following fields must be as indicated:

BRCS must be "Y"
SHARED must be "N"
CSV must be 1
CSV CHL must be "ANY"
E911PSAP must be "N"
TERM TYPE must be "TYPEA"
AC ALW must be "N"
AR ALW must be "N"
COT ALW must be "N"
SCA GA ALW must be "N"
SCF GA ALW must be "N"
SCR GA ALW must be "N"
SDA GA ALW must be "N"

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If "PCSI" is entered for a CKT TN, the CKT TN may not be entered as SERHLN on a LINE, SHTN, or MLHLN form or as a SERHLN on another DSLUSR form.

If "PCSI" is entered, each DSLUSR form must have a corresponding DSL form where the following conditions are met:

DSL CLS is set to "STD"
B1 SERV must not be "X25"
B2 SERV must not be "X25"

If "PCSI" is entered, the assignment of BRCS features to a TN (LINEFA form) are prohibited EXCEPT for:
RNDFD features
ASPFD features
DISPFD features
CPNBNFD features

Multiway Calling features are also prohibited except Three-Way Calling with MULTIWAY CONTROL set to "3WAY" and MULTIWAY TRANSFER is set to "N".

If "PCSI" is entered, a CKT TN must appear as TN on a LINEFA form which has an ASP feature or a CLUSTER containing an ASP feature assigned. Additionally, the associated ASPFD form must have CONTROL set to "ORIG" and the OHD TRIG NBR field on the ASPFD or ASPLPA forms must be entered.

8.11 ALT

Description: Is Automatic Link Transfer available?

This field supports the PCS/ISDN Interworking feature. It is used to indicate whether this user on the DSL is allowed to comply with a request for an Automatic Link Transfer. The purpose of the ALT is to move a PCS call from one RPCU (Radio Port Control Unit) to another RPCU. For more information, see Division 2, Section 1AM.

Software Release: 5E10 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ALT is "Y", PASC must be "PCSI".

8.12 LRN INDEX

Description: Enter an index into the LRNINDEX form (5328 Record) to obtain the LRN associated with this DN. LRNs are used to route DNs 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 on this feature, see Division 2, Section 4A174.

Software Release: 5E11 and later.
Valid Entries: 1 - 127

Data Rules:

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When this field is entered, LRN INDEX must also be entered on the LRNINDEX form (5328 Record).

8.13 PORTED

Description: The PORTED field is used to indicate whether the TN has been ported into this office via the NP (Number Portability) 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 (Inter-Exchange Carrier) access records.

Software Release: 5E11 and later
Default: N
Valid Entries: Y, N

8.14 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:

NON COND TRIG must be "N" when:

- ICP is "Y"
- E911 PSAP is "Y"

When NON COND TRIG is "Y", then:

- CKT TN and DPKT/ODB/PPB1/PPB2 TN must not be the same.
- CKT TN must be entered but CKT MLHG and CKT TERM must be blank.
- 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"

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NI SAR LIST (SARLIST)

The following fields (Section 8.15 - Section 8.16) describe the NI SAR LIST. These fields support the ISDN Call Appearance Reservation feature. See Division. 2, Section 1BM for more information.

The subaddress reservation list contains up to 3 entries which consist of the type of subaddresses to reserve, the order in which the type of reservation specified should appear with respect to the other types of subaddresses reserved, if any, and the number of subaddresses to reserve for that type of subaddress reservation.

8.15 TYPE AND ORDER

Description: The TYPE AND ORDER field is used to specify the type and order of subaddresses to reserve for call appearance reservation. The subaddress types can be reserved in any order with respect to one another; however, all subaddresses within one category must be reserved contiguously (i.e. each reservation type may appear only once in NI SAR LIST(SARLIST) field). The location of the list entry determines the ordering of the reservation type with respect to the other types of subaddresses reserved, if any. The reserved subaddresses are assigned to the highest numbered subaddresses associated with the circuit telephone number specified in the CKT TN field. Following is an example of the assignment of call appearance reservation on a terminal on which the circuit TN specified is primary.

The circuit TN has 5 call appearances (CA QTY is 5) starting at call appearance 3 (CA is 3) and the NI SAR LIST field is set up as follows:

NI SAR LIST		
ROW	TYPE AND ORDER	QTY
1	PRIO	1
2	TERM	2
3	ORIG	1

In this example, the circuit TN has five subaddresses (CA QTY is 5). Four of the circuit TN's five subaddresses are to be reserved (sum of QTY column). Since the reserved subaddresses are the highest numbered subaddresses of the circuit TN, it is the last four of the five subaddresses (subaddresses 2, 3, 4, and 5 of the circuit TN) which will have subaddress reservation. The order of the types of reservation follows the order specified in the NI SAR LIST field. Therefore, subaddress 2 of the circuit TN will be reserved for originations and priority incoming terminations ("PRIO") since a QTY of 1 subaddress is specified to be reserved for "PRIO" and it is the first type in the NI SAR LIST. Subaddresses 3 and 4 will be reserved for terminations ("TERM"), since a QTY of 2 subaddresses are specified to be reserved for TERM and it is the second type in the NI SAR LIST. Finally, subaddress 5 will be reserved for originations ("ORIG"), since a QTY of 1 subaddress is specified to be reserved for "ORIG" and it is the third type in the NI SAR LIST. Any non-reserved subaddresses are the lowest numbered subaddresses of the circuit TN (in this example, subaddress 1 is non-reserved).

On this terminal, the subaddresses correspond to CA (Call Appearances) as follows:

- CA 3 is subaddress 1 (non-reserved)
- CA 4 is subaddress 2 (reserved for "ORIG" and "PRIO" terminations)
- CA 5 is subaddress 3 (reserved for terminations)
- CA 6 is subaddress 4 (reserved for terminations)

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- CA 7 is subaddress 5 (reserved for originations)

NOTE: See SHTN form (Division 5 Section 1C) for a description of call appearance reservation when the circuit TN is shared.

Software Release: 5E11 and later.
Valid Entries:

Valid TYPE AND ORDER Entries

Entry	Definition
ORIG	Subaddress(es) reserved for originations only.
PRIO	Subaddress(es) reserved for originations and priority incoming terminations.
TERM	Subaddress(es) reserved for terminations only.
blank	No subaddress reservation.

Data Rules:

TYPE AND ORDER and QTY must be entered together, e.g. if TYPE AND ORDER is entered, QTY must be entered for that TYPE AND ORDER.

When EKTS is "BASIC" and TYPE AND ORDER is "ORIG", BUSY MONITOR must not be "Y".

TYPE AND ORDER must be unique in the NI SAR LIST.

NI SAR LIST entries are not permitted when a CKT MLHG is entered.

When an NI SAR LIST entry is made, CKT TN must be entered.

When a CKT MLHG is entered, NI SAR LIST entries are not permitted.

When an NI SAR LIST entry is made, EKTS must be "BASIC" or "CACH".

- When EKTS is "BASIC"
  - no more than one NI SAR LIST row entry is permitted.
  - if one NI SAR LIST entry is made, the QTY field entry must be 1.

- When EKTS is "CACH", and SARLIST has only one row entry, and that entry has both a TYPE AND ORDER of "ORIG" and a QTY entry equal to the CA QTY entry, then BUSY MONITOR must not be "Y".

8.16 QTY

Description: The Quantity of subaddresses to be reserved for Call Appearance Reservation field is used to specify the quantity of subaddresses to be reserved for the type of subaddress designated in the TYPE AND ORDER field. The number of subaddresses reserved may not exceed the total number of subaddresses specified in the CA QTY field for the circuit TN. The reserved subaddresses will be assigned to the highest numbered subaddresses of the circuit TN.

Software Release: 5E11 and later.
Valid Entries: 1 - 16, or leave blank.

Data Rules:

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When EKTS is "CACH", the sum of the NI SAR LIST QTY fields must not exceed the entry in the CA QTY field.

ADVANCED SERVICES PLATFORM

The following fields (Section 8.17 - Section 8.20) 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.

8.17 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 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".

8.18 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 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".

8.19 URT FCD BLK

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

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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:

When URT FCD BLK is "Y", either CKT TN or CKT MLHG must be entered.

When URT FCD BLK is "Y" and CKT MLHG is entered, CKT MLHG TN must be entered.

When the CKT TN or CKT MLHG/TERM is entered on a DSLUSR form where URT FCD BLK is set to "Y", the ACT field for SFID 572 on the SFSYS form must be "Y". This field is used by the ASP Unrestricted FCD Codes secured feature, which must be purchased before URT FCD BLK can be set to "Y".

When "Y" is entered in the URT FCD BLK field on the DSLUSR form, the CKT TN or the CKT MLHG TN on the DSLUSR form cannot be entered as a TN on the LNBLKCOD form.

When "Y" is entered in the URT FCD BLK field on the DSLUSR form, the CLASS OF SERVICE on the corresponding LCC form must be "ISDN" or "ISATND".

When a DSLUSR form is entered, indicating this is an ISDN office, and secured feature ASP Unrestricted FCD Trigger has been purchased, the ACT field for SFID572, is "Y", then the ACT field for SFID 139, Advanced Service Platform Interworking with Nation ISDN and Custom ISDN, must also be "Y" on the SFSYS form.

8.20 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

9. FORM ENTRIES, 5908-8 RECORD

9.1 BASE AND CONTROL, ESS UNIT

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

DPKT

The following fields (Section 9.2 - Section 11.16)

contain entries used in DPKT (D-Channel packet-switched) calls.

9.2 MLHG TN

Description: The packet telephone number of the DSL (if it has one).
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9 and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9
and X is 0 - 9

Data Rules:

The first three digits must be defined in the OFFICE CODE field on a NOC form.

When this field is entered, DPKT MLHG/TERM, LCC, and RAX must be entered. When DPKT MLHG/TERM and DPKT H PVC LCN are entered, MLHG TN must be entered.

The Telephone Number entered here cannot duplicate the Telephone Number entered in the ODB TN field.

This Telephone Number must be unique within the 5ESS Switch with the following two exceptions:

- It can match the CKT TN or the MLHG TN (under the CKT SWITCHING header) on the same instance of a DSLUSR form;
- it can match the LISTED TN on the associated MLHG form if this is member 1 of the MLHG.

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN or member TN. Multiple TNs are defined in the TN field on a MULTITN form. The TN entered in this field on the DSLUSR form may not duplicate a TN entered in the TN field on a MULTITN form.

Multiple TNs that are defined on the MULTITN form may not be assigned to modem pools, PPB1 MLHG/TERMs or PPB2 MLHG/TERMs.

For 5E8 and later, this field must be entered when DPKT MLHG and TERM are entered and DPKT CHL SEL equals "Y" or DPKT HUNT NOTIF is "YES".

For 5E8 and later, when DPKT CHL SEL is "N", this TN must be unique within the 5ESS Switch with the exception that it can equal the CKT TN or MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

When DPKT CHL SEL is "Y", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.
- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.
- It must equal ODB MLHG TN if the corresponding ODB CHL SEL is set to "Y".
- It must equal PPB1 TN (on the DSL form) if the corresponding PPB1 CHL SEL is set to "Y" and PPB1 USR on the DSLUSR form equals "Y".
- It must equal PPB2 TN (on the DSL form) if the corresponding PPB2 CHL SEL is set to "Y" and PPB2 USR on the DSLUSR form equals "Y".

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For 5E12 and later, when the DSLUSR forms have DPKT CHL SEL and ODB CHL SEL set to "Y" ,and DPKT MLHG TN and/or ODB MLHG TN are entered, DPKT MLHG TN and ODB MLHG TN must both be entered and DPKT MLHG TN must equal ODB MLHG TN.

For 5E12 and later, if the first 3 digits of the 7-digit DPKT MLHG TNs on the DSLUSR form are equal 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, DPKT MLHG TN must be a 10-digit TN with the NPA/OFFICE CODE defined in the NOC form.

9.3 LCC

Description: The Line Class Code. LCCs are defined on the LCC form (5306 Record).
Valid Entries: 3 alphanumeric characters.

Data Rules:

This field must be entered if the DPKT TN or DPKT MLHG/DPKT TERM fields are entered.

9.4 RAX

Description: The rate area. The LCC and RAX determine the Digit Analysis Selector and Screening Index used for calls originating from this line and the terminating treatment of calls to this line.
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 999

Data Rules:

This field must be entered if the DPKT TN or DPKT MLHG/DPKT TERM fields are entered.

If an MLHG TN (under the D-CHANNEL PACKET SWITCHING header) is not entered and the D SERV field on the DSL form for this DSL, is not "XMP" (indicating no Modem Pooling), then the LCC and RAX combination must be defined on a LCC form with an associated CLASS OF SERVICE of "ISDN" and a TERMINATING TREATMENT of "MLHG".

If an MLHG TN (under the D-CHANNEL PACKET SWITCHING header) is entered and the D SERV field on the associated DSL form is not "XMP", then the LCC and RAX must be defined on a LCC form with a CLASS OF SERVICE of "ISDN" and a TERMINATING TREATMENT of "INDIV".

If the D SERV field, on the DSL form for this DSL is "XMP" (indicating Modem Pooling), then the LCC and RAX combination entered under the DPKT (D-CHANNEL PACKET SWITCHING) with an associated CLASS OF SERVICE of "ISDN" and a TERMINATING TREATMENT of "AGING".

9.5 CODE RESTRICT

Description: This field represents the Code Restriction used for a DPKT switching DSL (Digital Subscriber Line) which is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

9.6 LNR HNT TN

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Description: The Linear Hunt TN of a Multi-Line Hunt Group member. This LNR HNT TN serves as a linear entry point to the MLHG. Hunting always begins at the member associated with the called TN; it hunts sequentially through the members of the hunt group until either it reaches a non-busy member, or it reaches the last member and all hunted members were hunt-busy.

If the member TN is on intercept, the LNR HNT TN will not be on intercept.

Software Release: 5E8 and later
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9
and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

If DPKT LNR HNT TN is entered, the following must be true:

- OE must be entered.
- DPKT MLHG and TERM must be entered.
- The first three digits of the LNR HNT TN must be defined in the OFFICE CODE field on the NOC form.
- For a "PSUCD" MLHG, if LNR HNT TN for member 1 is not entered, no other members can have LNR HNT TN entered.
- LNR HNT TN must be unique within the 5ESS Switch with the following exceptions:
  - If DPKT CHL SEL is "Y", it must match ODB LNR HNT TN on the same DSLUSR form, where the corresponding ODB CHL SEL is "Y".
  - If DPKT CHL SEL is "Y" and PPB1 USR on this DSLUSR form is "Y", it must match the PPB1 LNR HNT TN on the DSL form, for this DSL, where PPB1 CHL SEL is "Y".
  - If DPKT CHL SEL is "Y" and PPB2 USR on this DSLUSR form is "Y", it must match the PPB2 LNR HNT TN on the DSL form, for this DSL, where PPB2 CHL SEL is "Y".

For 5E12 and later, when the DSLUSR forms have DPKT CHL SEL and ODB CHL SEL set to "Y" ,and DPKT LNR HNT TN and/or ODB LNR HNT TN are entered, DPKT LNR HNT TN and ODB LNR HNT TN must both be entered and DPKT LNR HNT TN must equal ODB LNR HNT TN.

For 5E12 and later, when the DSLUSR forms have DPKT TN or DPKT MLHG and DPKT TERM entered, and also have an entry for DPKT LNR HNT TN, DPKT LNR HNT TN must not equal CKT TN, DPKT TN, ODB TN, CKT MLHG TN, DPKT MLHG TN, or ODB MLHG TN.

For 5E12 and later, if the first 3 digits of the 7-digit DPKT LNR HNT TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, DPKT LNR HNT TN must be 10 digits.

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9.7 HUNT DEACT

Description: Should the MLHG member be deactivated (marked busy) for hunted calls? A value of "N" indicates the Multi-Line Hunt Group member is active (available) for hunting.

The deactive/active status has no effect on non-hunted calls, calls made to the MLHG member using its individual TN.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If DPKT MLHG and TERM are not entered, DPKT HUNT DEACT must be "N".

If DPKT MLHG and TERM are defined for Modem Pooling, DPKT HUNT DEACT must be "N".

9.8 CHL SEL

Description: Is the TN a Common TN that is shared by at least two channels on the DSL? When a call terminates to a Common TN, an Active Channel Selection algorithm is performed to determine the channel on which the call will be offered.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If DPKT CHL SEL and ODB CHL SEL are both "Y", the following DPKT and ODB fields must be set the same:

- (DPKT/ODB) TN
- (DPKT/ODB) MLHG
- (DPKT/ODB) TERM
- BILL TN
- BUSY LIMIT
- CHARGE
- CUGPX
- CUGOA
- CUGIA
- FCPN
- FSA
- HUNT DEACT
- HUNT NOTIF
- IA
- ICB
- ICP
- IECPDNIC
- LCC
- LCP

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- LNR HNT TN
- MLHG TN
- NOTIF
- OCB
- PB GRP
- PMDR GRP
- PMDR ACT
- RAX
- REV
- SUST
- TPCN
- X25VER

If CHL SEL is "Y", OE must be entered.

If DPKT CHL SEL is "Y", DPKT H PVC LCN must not be entered.

DPKT CHL SEL must equal "N" when the DPKT MLHG and TERM is defined for Modem Pooling.

At least two channels of the DSL for a user must have Channel Selection (PPB1 CHL SEL, PPB2 CHL SEL, ODB CHL SEL, or DPKT CHL SEL) set to "Y", or none of the channels should be set.

If DPKT CHL SEL is "Y", service must be on a PH3. The first three digits of OE, the first digit of D ISCN, and the second two digits of D ISCN must match SM, PSU SHELF, and GRP, respectively, on a PSUGP form. PH TYPE on the PSUGP form must be set to "PH3".

If DPKT CHL SEL (DSLUSR form), ODB CHL SEL (DSLUSR form), PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) are set to "Y" for a user of the DSL, the following must be true for that user:

- The following parameters associated with CHL SEL equal to "Y" must be the same: MLHG, TERM, LNR HNT TN, LCC, RAX, HUNT DEACT, first three digits of ISCN, BILL TN, BUSY LIMIT, ICB, OCB, PMDR GRP, PMDR ACT, FCPN, TPCN, REV CHARGE, LCP, IECPDNIC, FSA, IA, PB GRP, X25VER, ICP, HUNT NOTIF, SUST, CUGPX, CUGOA, and CUGIA.

- If MLHG and TERM are entered, all the associated Channel Types with CHL SEL set to "Y" must have the same: DPKT MLHG TN, ODB MLHG TN, PPB1 TN, and/or PPB2 TN.

- If MLHG and TERM are not entered, all the associated Channel Types with CHL SEL set to "Y" must have the same: DPKT TN, ODB TN, PPB1 TN and/or PPB2 TN.

- All the associated B-Channel Types with CHL SEL set to "Y" must have the same SEND PKTSZ, SEND PKTWD, RCV PKTSZ, and RCV PKTWD.

- If DPKT NOTIF (DSLUSR form) and/or ODB NOTIF (DSLUSR form) is set to "COND", then of all the associated Channel Types with CHL SEL set to "Y", at least one Channel must have 2W LCN or IN LCN entered.

- If PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) equals "Y" and DPKT CHL SEL (DSLUSR form) or ODB CHL SEL (DSLUSR form) equals "Y", the appropriate PPB1 and/or PPB2 fields CALL TN, CALL ID, and DIS SCR (DSL form) must equal "N".

- If MLHG/TERM are entered, then of all the associated packet (PPB1, PPB2, DPKT, ODB) services with CHL SEL set to "Y" for this user, at least one packet service must have 2W LCN or IN LCN entered.

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9.9 NEW TN

This field is a Recent Change field added in 5E7.

9.10 BILL TN

Description: A TN to be billed if the PKT TN to be billed is different from the PKT TN of this DSL.
Valid Entries: A 7-digit PKT TN if calls are to be billed to a PKT TN within the local office; a valid 10-digit number if calls are to be billed to a PKT TN outside the local office. Entries must be in one of the following formats:

Valid BILL TN Entries

Entry	Definition
NXXXXXX	Where NXX is a valid office code defined in the OFFICE CODE field on a NOC input form.
NPANXXXXXX	Any 10-digit number is acceptable; however, normal expected values are valid NPA and NXX codes.
ZXXXXXX	Where Z is 0 or 1. This is normally used for OUTWATS billing purposes. The first three digits must be defined in the OFFICE CODE field on a NOC input form.

9.11 FIXED TEI

Description: Enter the Fixed terminal endpoint identifier. If this field is not entered it indicates there is no support for NIT access to a PVC (Permanent Virtual Circuit). This field supports the Non-Initializing Terminals secured feature on a Standard ISDN interface. For more information on this feature, see Division 2, Section 1AM.

Software Release: 5E10 and later.
Valid Entries: 0 - 63

Data Rules:

Fixed Terminal Endpoint Identifier for use with Permanent Virtual Circuits and Non-Initializing Terminals is a feature that must be purchased by the office before the DPKT FIXED TEI field on the DSLUSR form can have an entry. The SFID 225 ACT field on the SFSYS form (5713-1 Record) must be set to "Y", before this field can be entered.

If FIXED TEI is entered then the following must be entered:
- DPKT TN
- DPKT H PVC LCN

and the following must not be entered:
CONFIG GRP
CKT MLHG
EKTS
PASC

and the following must be "N":
DFLT TN USER
SCP ALW
SHARED.

If DPKT FIXED TEI is entered and ODB services are also entered, then ODB TN must be entered.

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If the DPKT FIXED TEI field is entered, then on the corresponding DSL form (DSL form DSL OE matches DSLUSR form OE) the DSL CLS field must be set to "STD". A BRI cannot have a Fixed Terminal Endpoint Identifier (DPKT FIXED TEI) unless its Class of Service is "STD".

The DPKT FIXED TEI field value cannot be duplicated for DSLUSR forms with the same OE value. The same Fixed Terminal Endpoint Identifier value cannot be assigned to more than one terminal on a BRI.

CAICOM form can only be entered when "CACH" is entered for EKTS. Therefore, if CKT TN is entered with either the DFLT TN USER field set to "Y" or the DPKT FIXED TEI field entered, corresponding CAICOM form (where DSLUSR form CKT TN matches CAICOM form TN) can not be entered. ISDN Call Appearance Intercom is not allowed with either a Circuit Default DN (DFLT TN USER) or a Fixed Terminal Endpoint Identifier (DPKT FIXED TEI).

If either the DFLT TN USER field is set to "Y" or the DPKT FIXED TEI field entered, then the CKT TN cannot have BRCS features (assigned on the LINEFA, BFG or CLUSTR forms) which are not allowed with Non-Initializing Terminal features. In addition, BRCS features defined on the following forms:

- ASPFD with CONTROL set to "NESS"
- EDSFD
- MSFD

are not allowed for NIT, because they require the use of Fully Initializing Terminals.

9.12 RMK

Description: Remarks entered for administrative purposes.
Valid Entries: Up to 16 alphanumeric characters.

Logical Channel Numbers

Fields Section 9.13 -Section 9.19 refer to D-Channel LCNs. Each D-channel can define 15 possible LCNs to establish simultaneously active SVCs (Switched Virtual Circuits) or PVCs (Permanent Virtual Circuits). The circuits connect CPEs together for packet switched data transmission.

SVCs exist only during the call. The CPE and the PH must interact through CCITT (International Telegraph and Telephone Consultative Committee) specified packet communication to set up each call and clear the SVC for 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 for each call.

There is a system limitation of 128 simultaneously active SVCs or PVCs for each PH. Congestion on the network, due to contention for available SVCs or PVCs, is handled through CCITT specified procedures.

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 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 H PVC LCN field (highest PVC LCN) indicates the highest numbered LCN that is a PVC. For example, if the H PVC LCN field is 7, that means that LCNs 1 through 7 are PVCs.

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The next highest range of numbers for LCNs belongs to the incoming only SVCs. This range is indicated in the L IN LCN field (Lowest Incoming LCN) and the H IN 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 L 2W LCN field (Lowest Two-way LCN) and the H 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 L OUT LCN field (Lowest Outgoing LCN) and the H OUT LCN field (Highest Outgoing LCN).

As an example, an ISCN could define its 15 associated LCNs as follows:

H PVC LCN = 2 (LCNs 1 and 2 are PVCs)

L IN LCN = 3

H IN LCN = 4 (LCNs 3 and 4 are incoming SVCs)

L 2W LCN = 8

H 2W LCN = 9 (LCNs 8 and 9 are two-way SVCs)

L OUT LCN = 10

H OUT LCN = 12 (LCNs 10 to 12 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 SVC.

If PVCs, incoming SVCs and two-way SVCs are not desired, LCN 1 is available for outgoing SVCs.

The CCITT, to minimize "call collisions", has specified that a CPE device should start its search algorithm for an available LCN (SVCs only) with the highest numbered SVC that is in a ready state.

The H PVC LCN field or the L IN LCN and H IN LCN field combination or the L 2W LCN and H 2W LCN field combination or the L OUT LCN and H OUT LCN field combination must be entered.

9.13 H PVC LCN

Description: The Highest Logical Channel Number that can be assigned to a Permanent Virtual Circuit.
Valid Entries: 1 - 15

Data Rules:

When the DPKT TN or DPKT MLHG/TERM is assigned on a PSPVC form where the LCN is entered, the LCN must be less than or equal to the H PVC LCN entered here.

9.14 L IN LCN

Description: The Lowest Incoming Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

If the L IN LCN field is entered, then the H IN LCN field must be entered in order to specify the range of

incoming LCNs.

If the H PVC LCN field is not entered and L IN LCN is entered, then L IN LCN field must be "1".

If the H PVC LCN field is entered and L IN LCN is entered, then L IN LCN must be 1 greater than the H PVC LCN field.

9.15 H IN LCN

Description: The Highest Incoming Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

The value entered in this field must be greater than or equal to the value entered in the L IN LCN field in order to specify a single Incoming LCN or a range of Incoming LCNs.

9.16 L 2W LCN

Description: The Lowest Two-Way Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

If the L 2W LCN field is then the H 2W LCN field must be entered in order to specify the range of Two-Way LCNs.

If this field and the H IN LCN field are entered, the value entered in L 2W LCN must be greater than the value entered in the H IN LCN field.

If this field and the H PVC LCN fields are entered, but the H IN LCN field is not entered, the value entered in L 2W LCN must be greater the value entered in the H PVC LCN field.

9.17 H 2W LCN

Description: The Highest Two-Way Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

The value entered in this field must be greater than or equal to the value entered in the L 2W LCN field in order to specify a single Two-Way LCN or a range of Two-Way LCNs.

9.18 L OUT LCN

Description: The Lowest Outgoing Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

If the L OUT LCN field is entered, then the H OUT LCN field must be entered in order to specify a range of Outgoing LCNs.

If this field and the H 2W LCN fields are entered, the value entered in L OUT LCN must be greater than the

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value entered in the H 2W LCN field.

If this field and the H PVC LCN fields are entered and the H IN LCN and H 2W LCN fields are not entered, then the value entered in this field must be greater than the value entered in the H PVC LCN field.

9.19 H OUT LCN

Description: The Highest Outgoing Logical Channel Number.
Valid Entries: 1 - 15

Data Rules:

The value entered in this field must be greater than or equal to the value entered in the L OUT LCN field in order to specify a single Outgoing LCN or a range of Outgoing LCNs.

9.20 BUSY LIMIT

Description: Enter the busy limit for this MLHG terminal. The busy limit represents the maximum number of concurrent incoming virtual calls an MLHG member may receive before the member is marked busy for hunting purposes. Calls to non-hunt DNs are included in the incoming call count but are not restricted by the busy limit.

Software Release: 5E8 and later
Valid Entries:
If CHL SEL is "Y": 1 - 269
If CHL SEL is "N": 1 - 15

Data Rules:

This field is applicable to MLHG members only. If DPKT MLHG and TERM are not entered, DPKT BUSY LIMIT must not be entered.

If DPKT MLHG and TERM are entered, BUSY LIMIT should be set according to the rules that follow. When BUSY LIMIT is not entered, the maximum value for the applicable rule will be assigned (but not for Modem Pooling):

- If the DSL is on a PH3 and DPKT CHL SEL is set to "N", DPKT BUSY LIMIT must be less than or equal to the sum of DPKT IN LCNs plus DPKT 2W LCNs.
- If DPKT CHL SEL is set to "Y", DPKT BUSY LIMIT must be less than or equal to the sum of IN LCNs and 2W LCNs of all associated packet (PPB1, PPB2, DPKT, and ODB) services with CHL SEL set to "Y" for this user. If two ODBs are provisioned, add twice the value of the first ODB's IN LCNs plus 2W LCNs to the count.

9.21 ICB

Description: Will the Incoming Calls Barred feature be activated? ICB prevents the user from receiving incoming virtual calls. The user can still originate outgoing virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

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Data Rules:

If the DPKT MLHG and DPKT TERM fields are entered, then this field must be "N".

For 5E9(1) and earlier, if this field is "Y", then the L IN LCN, H IN LCN, L 2W LCN and H 2W LCN fields must not be entered.

9.22 OCB

Description: Will the Outgoing Calls Barred feature be activated? OCB prevents the user from originating outgoing virtual calls. The user can still receive incoming virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

for 5E9(1) and earlier, if this field is "Y", the L OUT LCN, H OUT LCN, L 2W LCN and H 2W LCN fields must not be entered.

If the OCB field is "Y" and the ICB field is "N", the L IN LCN and H IN LCN fields must be entered.

If the OCB field is "N" and the ICB field is "Y", the L OUT LCN and H OUT LCN fields must be entered.

10. FORM ENTRIES, 5908-9 RECORD

10.1 BASE AND CONTROL, ESS UNIT

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

10.2 PMDR GRP

Description: Enter the MDR (Message Detail Recording) group name associated with the D-Channel Packet TN. This field was added with the Packet MDR feature.

Software Release: 5E7 and later
Valid Entries: 1 - 8 characters

Data Rules:

If DPKTTN, DPKTMLHG or DPKTTERM are not entered, PMDR GRP should not be entered.

If ODBTN is not entered, PMDR GRP should not be entered.

If PMDR GRP is entered, PMDR ACT must be entered, and it must be defined on the MDRGP form as the MDR GROUP NAME where PACKET MDR is "Y". If PMDR GRP is not entered, then PMDR ACT must not be entered.

If PMDR GRP(s) are entered for DPKT (Packet Switch D-Channel) on the DSLUSR input form, then the corresponding DSL form must not have D SERV set to "XMP".

10.3 PMDR ACT

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Description: Is the Packet MDR Group active for the D-Channel TN?

Software Release: 5E7 and later.
Valid Entries: Y, N

Data Rules:

If PMDR GRP is not entered, PMDR ACT should not be entered.

10.4 SEND TPC

Description: The Throughput Class of a virtual call from the terminal to the switch.

Required Field.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800 or 9600

10.5 SEND PKTSZ

Description: The maximum number of bytes of data in a packet (excluding control type information) that can be sent.

Required Field.
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

If the FCPN field is "N", this field must equal 128.

10.6 SEND PKTWD

Description: The number of data packets that the CPE device can have unacknowledged, on a sending basis, at any time.

Required Field.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if DPKT SEND PKTWD or DPKT RCV PKTWD is not 2, DPKT FCPN must be "Y".

10.7 SEND MCT

Description: Enter the maximum combined throughput in kilobits per second for the sending direction. When the sum of the sending throughput of virtual calls exceeds the SEND MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 16 - 32 (kbps), in increments of 2

10.8 RCV TPC

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Description: The Throughput Class of a virtual call to the terminal from the switch.

Required Field.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800 or 9600

10.9 RCV PKTSZ

Description: The maximum number of bytes of data in a packet (excluding control type information) that can be received.

Required Field.
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

If the FCPN field is "N", this field must equal 128.

10.10 RCV PKTWD

Description: The number of data packets that the CPE device can have unacknowledged, on a receiving basis, at any time.

Required Field.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if DPKT SEND PKTWD or DPKT RCV PKTWD is not 2, DPKT FCPN must be "Y".

10.11 RCV MCT

Description: Enter the maximum combined throughput in kilobits per second for the receiving direction. When the sum of the receiving throughput of virtual calls exceeds the RCV MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 16 - 32 (kbps), in increments of 2

10.12 FCPN

Description: Will the Flow Control Parameter Negotiation feature be activated? FCPN allows the PH and the CPE device to negotiate the Window Size (2 or 3) and the Packet Size (128 or 256 bytes) on a per-call basis. Data transmission between a CPE and a PH is controlled separately for each direction and is controlled by the receiver of the data. This is, in CCITT nomenclature, referred to as flow control. An additional aspect of flow control is the ability of the PH to limit the rate at which it accepts packets when it recognizes network congestion.

Required Field.
Default: N
Valid Entries: Y, N

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10.13 TPCN

Description: Will the Throughput Class Negotiation feature be activated? TPCN allows sending and receiving entities to negotiate the bits/second that are transmitted in either direction on a per-call basis. Both the sending and receiving party must subscribe to this service.

Required Field.
Default: N
Valid Entries: Y, N

10.14 REV CHARGE

Description: Will the called CPE device accept the charge for a call from a PH?

Required Field.
Default: N
Valid Entries: Y, N

10.15 LCP

Description: Will Local Charge Prevention be activated? When LCP is "Y", all the X.25 outgoing calls from this user will be Reverse Charged, and any X.25 incoming calls that contain Reverse Charge will be cleared.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

LCP is not allowed with Reverse Charge. If LCP is "Y", then REV CHARGE must be "N".

D SERV on the DSL form associated with this form must not equal "XMP" when LCP is "Y".

11. FORM ENTRIES, 5908-10 RECORD

11.1 BASE AND CONTROL, ESS UNIT

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

11.2 IECPDNIC

Description: A 4-digit DNIC (Data Network ID Code) for Inter-Exchange Carrier Pre-select.
Valid Entries: 1 - 9999

Data Rules:

This entry must be defined in the DNIC field on the PSDNICRI form (5921 Record).

11.3 FSA

Description: Will the Fast Select Acceptance feature be activated? FSA allows a CPE device to receive up to 128 bytes of user data with call setup and clearing packets. The feature cannot be applied if the target CPE

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Device does not have Fast Select Acceptance.

Required Field.
Default: N
Valid Entries: Y, N

11.4 IA

Description: Will the ISDN Intercom Addressing feature be activated? IA permits the ISDN user to access other users on the 5ESS Switch with a 4- or 7-digit number.

Required Field.
Default: N
Valid Entries: Y, N

11.5 PB GRP

Description: The Packet Switching Data Business Group Service feature enables the customer to set up and administer intra-switch PBG (Packet Business Groups) by assigning a PBG number to each X.25 termination to distinguish between intra-PBG and other calls on the AMA record.
Valid Entries: 1 - 100

Data Rules:

An MLHG is assigned to a PBG by associating the PBG with an MLHG on an MLHG form. The DSLUSR form should only be used to assign a PBG if the MLHG member has a known MLHG TN.

Do not enter a value if this user is not a member of a PBG.

For 5E8 and later when DPKT PB GRP is entered, OE must be entered, and the PB GRP must be defined on a PBGRP form (5931 Record).

If DPKT PB GRP and DPKT MLHG are both entered, DPKT MLHG TN must be entered.

11.6 X25VER

Description: The Packet Switch D-Channel X.25 CCITT Version Supported for this DTE.

Software Release: 5E6 and later
Required Field.
Default: 1984
Valid Entries: 1980, 1984

Data Rules:

If DPKTTN is known, and DPKT MLHG and DPKTTERM is unknown, DPKT X25VER must be 1984.

11.7 NOTIF

Description: Enter the Notification Class.

If a call is routed to a channel with Conditional Notification when Layer 1 is up on the channel, but Layer 2 is down for the channel, the channel will be notified of the incoming call. The channel is notified by sending a Q.931 message on the D-channel. If the user accepts the call by responding to the Q.931 message, the

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switch will initiate Layer 2 setup procedures on the channel and offer the call.

If DPKT service is not subscribed to, this field must not be entered.

Software Release: 5E8 and later
Valid Entries:

Valid NOTIF Entries

Entry	Definition
COND	Conditional notification
NO	No notification

Data Rules:

This field is required when DPKT TN and OE are entered.

If NOTIF is "COND", the following must be true:

- DPKT MLHG and TERM must not be entered.
- DPKT H PVC LCN must not be entered.
- DPKT ICB must be "N".
- If DPKT CHL SEL is "N", DPKT L IN LCN or DPKT L 2W LCN must be entered.

11.8 ICP

Description: Are originating or terminating calls to be denied? Intercept, in the packet switched world, is a packet message denying service.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If DPKT ICP is "Y" and DPKT MLHG is entered, then OE must be entered.

11.9 HUNT NOTIF

Description: Indicate the Hunting Notification procedure to be used for processing an X.25 CLAMN (Called Line Address Modified Notification) facility and a modified address for this Multi-Line Hunt Group member.

The X.25 CLAMN feature allows the terminating CPE or switch to return the X.25 CLAMN facility, along with a modified Called Address field containing the non-hunt DN for the end-point, to the calling party. When a call is offered to a packet-mode hunt terminal as part of hunting, CLAMN signaling is returned to the calling party to indicate that a hunt was performed.

If HUNT NOTIF is blank, the CLAMN feature is not applicable.

Software Release: 5E8 and later
Valid Entries:

Valid HUNT NOTIF Entries

Entry	Definition
YES	The switch initiates CLAMN procedures when the terminating DTE does not. If neither the CLAMN nor the modified address is present, the switch will insert the CLAMN and non-hunt telephone number into the X.25 call request packet and allow the X.25 call to proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
NO	The switch does not initiate CLAMN procedures. If neither the CLAMN facility nor the modified address is present, or if both are present, the X.25 call will proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
OLD	The X.25 CLAMN procedure that existed prior to the 5E8 Software Release is used.

Data Rules:

This field is applicable to MLHG members only. If DPKT MLHG and TERM are not entered, DPKT HUNT NOTIF must not be entered.

If DPKT MLHG and TERM (Non-Modem Pooling) are entered, DPKT HUNT NOTIF must be entered. If DPKT MLHG and TERM are defined for Modem Pooling, DPKT HUNT NOTIF must not be entered.

If DPKT HUNT NOTIF is "YES", DPKT MLHG TN must be entered.

11.10 TCID

Description: Enter the TCID (Throughput Class Indicator) for the D-channel. All incoming calls to the Common DN with a throughput class less than or equal to the TCID are routed to the D-channel. If 0 is entered, the TCID is not subscribed to.

Software Release: 5E8 and later
Valid Entries: 0, 75, 150, 300, 600, 1200, 2400, 4800, or 9600 (kbps)

Data Rules:

DPKT CHL SEL must be "Y" when DPKT TCID is entered. If DPKT CHL SEL is "Y", and TCID is left blank, a value of 9600 kbps will be assigned.

11.11 SUST

Description: Is termination denied or suspended for packet switched services?

Required Field.
Default:
Valid Entries: Y, N

Data Rules:

This field must be "N" if the DPKT TN or the DPKT MLHG/DPKT TERM fields are entered.

11.12 DNA

Description: Enter the first DN CA for DPKT. This field, along with DNA QTY, is used to set the range of DPKT DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

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Data Rules:

If DPKT DNA is entered, DPKT DNA QTY must be entered.

The range of DPKT DNAs cannot overlap the range of any of the following: AU DNAs, CAs, ODB DNAs, K56 DNAs, K64 DNAs, and SP DNAs.

If DPKT DNA or DPKT DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

11.13 DNA QTY

Description: Enter the number of DN CAs for DPKT.

Software Release: 5E9(1) and later
Valid Entries: 1 - 4

Data Rules:

If DPKT DNA QTY is entered, DPKT DNA must be entered. The sum of DPKT DNA and DPKT DNA QTY cannot exceed 255.

If DPKT DNA QTY and ODB DNA QTY are both entered, and either DPKT MLHG equals ODB MLHG or DPKT TN equals ODB TN, the sum of DPKT DNA QTY and ODB DNA QTY cannot exceed 4.

If DPKT DNA or DPKT DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

11.14 CUGPX

Description: The Preferential Customer CUG Index. Refer to the Closed User Group explanation in the General section of this form for more information on CUGs.
Valid Entries: 0 - 99

Data Rules:

The entry must be defined in the CUG IDX field on a PSCUG form (5924 Record).

11.15 CUGOA

Description: Will the CUG Outgoing Access indicator be activated? CUGOA permits CUG members to access CPE devices that do not belong to a CUG, or CPE devices that belong to a CUG with Incoming Access.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGOA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

11.16 CUGIA

Description: Will the CUG Incoming Access indicator be activated? CUGIA permits CUG members to access

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CPE devices that do not belong to a CUG, or CPE devices that belong to a CUG with Outgoing Access.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGIA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

12. FORM ENTRIES, 5908-11 RECORD

12.1 BASE AND CONTROL, ESS UNIT

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

ODB (On Demand B-Channel)

The following fields (Section 12.2 - Section 14.28) contain entries for calls using ODB.

12.2 MLHG TN

Description: Enter the On Demand B-channel Multi-Line Hunt Group member Telephone Number.

Software Release: 5E8 and later
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9 and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

The first three digits must be defined in the OFFICE CODE field on the NOC form.

If this field is entered, ODB MLHG and ODB TERM must be entered.

This field must be entered when ODB MLHG and TERM are entered, and ODB CHL SEL equals "Y" or ODB HUNT NOTIF is "YES".

When ODB CHL SEL is "N", this TN must be unique within the 5ESS Switch with the exception that it can equal the CKT TN or MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

When ODB CHL SEL is "Y", this TN must be unique within the 5ESS Switch with the following exceptions:

- It can equal the CKT TN on the same instance of the DSLUSR form.
- It can equal the MLHG TN (under the CKT SWITCHING header) on the same instance of the DSLUSR form.

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- It must equal DPKT MLHG TN if the corresponding DPKT CHL SEL is set to "Y".
- It must equal PPB1 TN (on the DSL form) if the corresponding PPB1 CHL SEL is set to "Y" and PPB1 USR on the DSLUSR form equals "Y".
- It must equal PPB2 TN (on the DSL form) if the corresponding PPB2 CHL SEL is set to "Y" and PPB2 USR on the DSLUSR form equals "Y".

Multiple TNs allow the assignment of additional TNs to an MLHG's main TN, subgroup TN, or member TN. Multiple TNs are defined in the TN field on a MULTITN form. The TN entered in this field on the DSLUSR form must not duplicate a TN entered in the TN field on a MULTITN form.

Multiple TNs that are defined on the MULTITN form may not be assigned to modem pools, PPB1 MLHG/TERMs or PPB2 MLHG/TERMs.

For 5E12 and later, if the first 3 digits of the 7-digit ODB MLHG TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, ODB MLHG TN must be 10 digits.

12.3 LCC

Description: The Line Class Code. LCCs are defined on the LCC form (5306 Record).
Valid Entries: 3 alphanumeric characters.

Data Rules:

The LCC and RAX combination associated with the ODB TN or ODB MLHG/TERM must be defined on an LCC form with CLASS OF SERVICE of "ISDN" and TERMINATING TREATMENT of "INDIV".

12.4 RAX

Description: The Packet Rate Area. The LCC and RAX are used to determine the Digit Analysis Selector and Screening Index used for calls originating from this line and the terminating treatment of calls to this line.
Valid Entries:
For 5E14 and earlier: 1 -99
For 5E15 and later: 1 -999

12.5 CODE RESTRICT

Description: This field represents the Code Restriction used for a packet switching DSL (Digital Subscriber Line) which is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

12.6 LNR HNT TN

Description: The Linear Hunt TN of a Multi-Line Hunt Group member. This LNR HNT TN serves as a linear entry point to the MLHG. Hunting always begins at the member associated with the called TN; it hunts sequentially through the members of the hunt group until either it reaches a non-busy member, or it reaches the last member and all hunted members were hunt-busy.

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If the member TN is on intercept, the LNR HNT TN will not be on intercept.

Software Release: 5E8 and later
Valid Entries:
For 5E11 and earlier: NXXXXXX,
where N is 2 - 9 and X is 0 - 9
For 5E12 and later: XXXXXXX or
NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

If ODB LNR HNT TN is entered, the following must be true:

- OE must be entered.
- ODB MLHG and TERM must be entered.
- The first three digits of the LNR HNT TN must be defined in the OFFICE CODE field on the NOC form.
- For a "PSUCD" MLHG, if LNR HNT TN for member 1 is not entered, no other members can have LNR HNT TN entered.
- LNR HNT TN must be unique within the 5ESS Switch with the following exceptions:
  - If ODB CHL SEL is "Y", ODB LNR HNT TN must match DPKT LNR HNT TN on the same DSLUSR form when the corresponding DPKT CHL SEL is "Y".
  - If ODB CHL SEL is "Y" and PPB1 USR on this DSLUSR form is "Y", it must match the PPB1 LNR HNT TN on the DSL form, for this DSL, where PPB1 CHL SEL is "Y".
  - If ODB CHL SEL is "Y" and PPB2 USR on this DSLUSR form is "Y", it must match the PPB2 LNR HNT TN on the DSL form, for this DSL, where PPB2 CHL SEL is "Y".

For 5E12 and later, when the DSLUSR forms have ODB TN or ODB MLHG and ODB TERM entered, and also have an entry for ODB LNR HNT TN, ODB LNR HNT TN must not equal CKT TN, DPKT TN, ODB TN, CKT MLHG TN, DPKT MLHG TN, or ODB MLHG TN.

For 5E12 and later, if the first 3 digits of the 7-digit ODB LNR HNT TNs on the DSLUSR form are equal to an OFFICE CODE on the NOC form, and there is more than one NOC form with the same value of OFFICE CODE, ODB LNR HNT TN must be 10 digits.

12.7 HUNT DEACT

Description: Should the MLHG member be deactivated (marked busy) for hunted calls? A value of "N" indicates the Multi-Line Hunt Group member is active (available) for hunting.

The deactive/active status has no effect on non-hunted calls, calls made to the MLHG member using its individual TN.

Software Release: 5E8 and later
Required Field.

Default: N
Valid Entries: Y, N

Data Rules:

If ODB MLHG and TERM are not entered, ODB HUNT DEACT must be "N".

12.8 CHL SEL

Description: Is the TN a Common TN that is shared by at least two channels on the DSL? When a call terminates to a Common TN, an Active Channel Selection algorithm is performed to determine the channel on which the call will be offered.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If DPKT CHL SEL and ODB CHL SEL are both "Y", the following DPKT and ODB fields must be set the same: (DPKT/ODB) TN, (DPKT/ODB) MLHG, (DPKT/ODB) TERM, LCC, RAX, MLHG TN, LNR HNT TN, HUNT DEACT, BILL TN, BUSY LIMIT, ICB, OCB, PMDR GRP, PMDR ACT, FCPN, TPCN, REV CHARGE, LCP, IECPDNIC, FSA, IA, PB GRP, X25VER, NOTIF, ICP, HUNT NOTIF, SUST, CUGPX, CUGOA, and CUGIA.

If CHL SEL is "Y", OE must be entered.

At least two channels of the DSL for a user must have Channel Selection (PPB1 CHL SEL, PPB2 CHL SEL, ODB CHL SEL, or DPKT CHL SEL) set to "Y", or none of the channels should be set.

If DPKT CHL SEL (DSLUSR form), ODB CHL SEL (DSLUSR form), PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) are set to "Y" for a user of the DSL, the following must be true for that user:

- The following parameters associated with CHL SEL equal to "Y" must be the same: MLHG, TERM, LNR HNT TN, LCC, RAX, HUNT DEACT, first three digits of ISCN, BILL TN, BUSY LIMIT, ICB, OCB, PMDR GRP, PMDR ACT, FCPN, TPCN, REV CHARGE, LCP, IECPDNIC, FSA, IA, PB GRP, X25VER, ICP, HUNT NOTIF, SUST, CUGPX, CUGOA, and CUGIA.
- If MLHG and TERM are entered, all the associated Channel Types with CHL SEL set to "Y" must have the same: DPKT MLHG TN, ODB MLHG TN, PPB1 TN, and/or PPB2 TN.
- If MLHG and TERM are not entered, all the associated Channel Types with CHL SEL set to "Y" must have the same: DPKT TN, ODB TN, PPB1 TN and/or PPB2 TN.
- All the associated B-Channel Types with CHL SEL set to "Y" must have the same SEND PKTSZ, SEND PKTWD, RCV PKTSZ, and RCV PKTWD.
- If DPKT NOTIF (DSLUSR form) and/or ODB NOTIF (DSLUSR form) is set to "COND", then of all the associated Channel Types with CHL SEL set to "Y", at least one Channel must have 2W LCN or IN LCN entered.
- If PPB1 CHL SEL (DSL form) and/or PPB2 CHL SEL (DSL form) equals "Y" and DPKT CHL SEL (DSLUSR form) or ODB CHL SEL (DSLUSR form) equals "Y", the appropriate PPB1 and/or PPB2 fields CALL TN, CALL ID, and DIS SCR (DSL form) must equal "N".

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- If MLHG/TERM are entered, then of all the associated packet (PPB1, PPB2, DPKT, ODB) services with CHL SEL set to "Y" for this user, at least one packet service must have 2W LCN or IN LCN entered.

12.9 ISCN1

Description: The number of the first B-channel ISCN (Integrated Services Channel Number) on the PSU conjoined to the DSL. The DSL is connected, via a PIDB (Peripheral Interface Data Bus), to the PSU (Packet Switching Unit).
Valid Entries: A 6-digit number in 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	000-127, in multiples of 4

Data Rules:

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.

The SHELF is the PSU PH shelf number. It must correspond to a PSU SHELF field on an EQPSU form.

The CHL GRP is the number of the PH (Protocol Handler) on the PSU shelf. The CHL GRP is a "logical" value that will not always correspond to the physical number of a PH. PHs are assigned, as a component of an ISCN, on AMLBDSL forms (5447 Record), DSL forms (5907 Record), DSLAP forms (5963 Record), DSLUSR forms (5908 Record), OSPSDSL forms (5411 Record), PSISM forms (5920 Record), and TRUNK forms (5204 Record). PHs are also assigned in the CHL GRP field on ODBRES forms (5906 Record). The total quantity of PHs assigned on these forms must not exceed the quantity of PHs defined for the given SWITCHING MODULE and PSU SHELF on an EQPSUPH form (5742 Record) with EQST "O".

The CHL is the PH channel number.

- D/PPB1/PPB2 ISCN on the DSL form - ISCN on the AMLBDSL, DSLAP, OSPSDSL, XAT, TRUNK form - ISCN and MATE ISCN on the PSISM form - ISCN on the ODBRES form defined as the combination SHELF||CHL GRP||CHL - ISCN on the MISLINK form defined as the combination SHELF||CHL GRP||CHL - TMC PRI, TMC NPRI, EOC PRI or EOC NPRI ISCN(s) on the RTERM form

Each ISCN entry (the first character of the (ODB ISCN1 on the DSLUSR form) must have the SHELF value assigned on an EQPSUPH form on the same SWITCHING MODULE and having a matching PSU SHELF.

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SM/ISCNs assigned on this form must have a corresponding combination of SM, PSU, PSU SHELF and GRP entered on the PSUGP form.

PSU SHELF and GRP have not been entered on the PSUGP form. The ISCN must be unique within an SM.

This field cannot have the same SHELF and CHL GRP, within the same SM, as an ISCN from a PSISM form (5920 Record) or a TRUNK form (5204 Record) with an associated TRKCLS of "PACKET" or "X75P" defined on the TKGRP form (5202 Record).

If this field is entered, the SM (first three digits of the OE) and the ISLU LCEN, or IDCU ILEN, (fourth digit of the OE) and the PSU SHELF (first digit of the ISCN) must appear, respectively, in the SM, ISLU/IDCU, and PSU SHELF fields of an ODBTS form (5905 Record). The corresponding MIN TS/PIDB field must be greater than zero.

For 5E8 and later, if both ODB ISCN1 and ODB ISCN2 are entered, the first three digits of ISCN1 and ISCN2 must be equal, and the last three digits of ISCN1 and ISCN2 must not be equal.

For 5E9(1) and later, the first digit of the OE, the second two digits of the OE, and the first three digits of the ISCN1 must be defined in the SM, PSU SHELF, and GRP fields on a PSUGP form where PH TYPE is set to "PH3".

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 cannot 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 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

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- 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

12.10 ISCN2

Description: The number of the second On Demand B-channel ISCN (Integrated Services Channel Number) on the PSU conjoined to the DSL. The DSL is connected, via a PIDB (Peripheral Interface Data Bus), to the PSU (Packet Switching Unit).
Valid Entries: A 6-digit number in 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	000-127, in multiples of 4.

Data Rules:

The SHELF is the PSU PH shelf number. It must correspond to a PSU SHELF field on an EQPSU form.

The CHL GRP is the number of the PSU PH on the PSU shelf. PHs are assigned, as a component of an ISCN, on AMLBDSL forms (5447 Record), DSL forms (5907 Record), DSLAP forms (5963 Record), DSLUSR forms (5908 Record), OSPSDSL forms (5411 Record), PSISM forms (5920 Record) and TRUNK forms (5204 Record). PHs are also assigned in the CHL GRP field on ODBRES forms (5906 Record). The CHL is the PSU PH channel number.

If ODB ISCN2 is entered, ODB must be 2.

If both ODB ISCN1 and ODB ISCN2 are entered, the first three digits of ISCN1 and ISCN2 must be equal; the last three digits must not be equal.

The SM, PSU, SHELF, and CHLGRP must be defined on a PH3 on a PSUGP form (5949 Record).

The ISCN must be unique within an SM.

This field cannot have the same SHELF and CHL GRP, within the same SM, as an ISCN from a PSISM form (5920 Record) or a TRUNK form (5204 Record) with an associated TRKCLS of "PACKET", "X75", or "X75P" defined on the TKGRP form (5202 Record).

If this field is entered, the SM (first three digits of the OE) and the ISLU , or IDCU, (fourth digit of the OE), and the PSU SHELF (first digit of the ISCN) must appear, respectively, in the SM, ISLU/IDCU), and PSU SHELF fields of an ODBTS form (5905 Record). The corresponding MIN TS/PIDB field must be greater than zero.

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For 5E9(1) and later, the first three digits of the OE and the first three digits of ISCN2 must be defined on a PSUGP form with PH TYPE set to "PH3".

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 cannot 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 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

12.11 BAND

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Description: The On Demand B-Channel Band number. Entries represent the PSU PH number. This field is used for load balancing and determines the volume of use that clients need. 5ESS Switch owners can assign the bands according to their definitions of "light" through "heavy" users.
Default: 0
Valid Entries: 0 - 15

12.12 ODB

Description: Enter the number of On Demand B-channels this user subscribes to.

Software Release: 5E8 and later
Valid Entries: 1, 2

Data Rules:

If ODB is not entered, no ODB channels are subscribed to; neither ODB ISCN1 nor ODB ISCN2 may be entered.

If ODB is 1, one ODB channel is subscribed to, and the following must be true:

- ODB TN or ODB MLHG and TERM must be entered.
- ODB ISCN1 must be entered, and ODB ISCN2 must not be entered.
- D SERV on the corresponding DSL form must be "SX", and B1 SERV or B2 SERV must be "DMD".

If ODB is 2, two ODB channels are subscribed to, and the following must be true:

- ODB TN or ODB MLHG and TERM must be entered.
- ODB ISCN1 and ODB ISCN2 must be entered.
- PPB1 USR and PPB2 USR must be "N" or not entered.
- ODB CHL SEL must be "Y".
- D SERV, on the corresponding DSL form, must be "SX", and B1 SERV and B2 SERV must be "DMD".

ODB must be less than or equal to MAXB CHL.

For 5E10 and later, when DSLUSR form(s) have ODB ISCN1 entered; an ODBTS form must be defined where SM, UNIT and PSU SHELF matches the first three digits of OE, the fourth digit of OE (for DSL OE type equal to "I"), the fourth and fifth digits of OE (for DSL OE type equal to "G", "K"), and the first digit of ODB ISCN1 respectively from the DSLUSR form. The OE type on DSLUSR must correspond to UNIT TYPE on the ODBTS form (OE type "I" equal to ISLU; OE type "K" equal to ISLU2; OE type "G" equal to IDCU; OE type "E" equal to AIU). There must also be at least one MIN TS/DPIDB reserved on the ODBTS for this PSU SHELF. An ODBTS form, meeting the above conditions, must exit.

12.13 RATE

Description: The DSL baud rate.
Valid Entries: 56KB or 64KB

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12.14 N2

Description: The maximum number of attempts made by the CPE device or the PH to successfully transmit a frame at the LAPB (Link Access Procedure B) Level 2. Following N2 failures, the PH attempts to restore the link, which is either a SVC (Switched Virtual Circuit) or a PVC (Permanent Virtual Circuit). SVCs and PVCs are explained later in this section, immediately before those fields which involve LCN (Logical Channel Numbers). If the PH cannot restore the link, the PH will clear the SVCs and reset the PVCs. The N2 value is per CCITT specifications.
Valid Entries: 2 - 15

12.15 T1

Description: The period of time before retransmission of a frame can be initiated at the LAPB (Link Access Procedure B) Level 2. The T1 timer is per CCITT specifications.
Valid Entries: 20 - 200; even numbers only, in units of a tenth of a second.

12.16 T3

Description: The amount of time when a channel is considered idle for too long. This indication is passed to the PH to assure that the channel is idle and ready to be set for operation once again. The T3 timer is per CCITT specifications.
Valid Entries: 3 - 30 (in full seconds)

Data Rules:

The duration of the T3 timer must be greater than the duration of the T1 timer to ensure that retransmission efforts are not aborted.

12.17 WNDSZ

Description: The maximum quantity of sequentially numbered LAPB Level 2 I-frames (Information), or "I frames k" in CCITT terminology, which the CPE device or PH can have unacknowledged at any time. I-frames, which are data packets, are number 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. The possible remainders when dividing by 8 are 0 through 7. Hence, every I-frame has a number between 0 and 7, inclusive.
Valid Entries: 1 - 7

13. FORM ENTRIES, 5908-12 RECORD

13.1 BASE AND CONTROL, ESS UNIT

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

13.2 NEW TN

This field is a recent change field added in 5E7.

13.3 BILL TN

Description: A TN to be billed if the ODB TN or ODB MLHG TN to be billed is different from the ODB TN or ODB MLHG TN of this DSL.

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Valid Entries: A 7-digit TN for calls billed to a TN within the local office; a 10-digit TN for calls billed to a TN outside the local office. Valid TNs must be in one of the following formats:

Valid BILL TN Entries

Entry	Definition
NXXXXXX	Where NXX is a valid office code defined in the OFFICE CODE field on a NOC form.
NPANXXXXXX	Any 10-digit number is acceptable; however, normal expected values are valid NPA and NXX codes.
ZXXXXXX	Where Z is 0 or 1. This is normally used for OUTWATS billing purposes. The first three digits must be defined in the OFFICE CODE field on a NOC form.

13.4 RMK

Description: Remarks entered for administrative purposes.
Valid Entries: Up to 16 alphanumeric characters.

Logical Channel Numbers

Fields Section 13.5 -Section 13.10 refer to On Demand B-Channel LCNs. Each On Demand B-channel can define 127 possible LCNs to establish simultaneously active SVCs (Switched Virtual Circuits). The circuits connect CPEs together for packet switched data transmission. PVCs (Permanent Virtual Circuits) are not defined for On Demand B-channels. Since On Demand B-channels are not dedicated to packet switching full-time, PVCs for this type of service are contradictory.

SVCs exist only during the call. The CPE and the PH must interact through CCITT specified packet communication to set up each call and clear the SVC for each call.

The system limits each PH to 128 simultaneously active SVCs and/or PVCs. Congestion on the network, due to contention for available SVCs or PVCs, is handled through CCITT procedures.

There are three categories of LCNs that can be associated with an On Demand B-channel. 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 the perspective of the PH.

CCITT has a required order of assigning the categories of LCNs. In the case of the On Demand B-channel, if Incoming LCNs are used, the L IN LCN (Lowest Incoming LCN) must be LCN 1. The H IN LCN (Highest Incoming LCN) is used to define the range of Incoming LCNs.

The next highest range of numbers for LCNs belongs to the two-way SVCs. This range is indicated in the L 2W LCN field (Lowest Two-way LCN) and the H 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 L OUT LCN field (Lowest Outgoing LCN) and the H OUT LCN field (Highest Outgoing LCN).

As an example, an ISCN could define its 127 associated LCNs as follows:

L IN LCN = 1

H IN LCN = 4 (LCNs 1-4 are incoming SVCs)

L 2W LCN = 8

H 2W LCN = 50 (LCNs 8-50 are two-way SVCs)

L OUT LCN = 62

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H OUT LCN = 72 (LCNs 62-72 are outgoing SVCs)

The CCITT, to minimize "call collisions", has specified that a CPE device should start its search algorithm for an available LCN (SVCs only) with the highest numbered SVC that is in a ready state.

The L IN LCN and the H IN LCN field combination or the L 2W LCN and the H 2W LCN field combination or the L OUT LCN and the H OUT LCN field combination must be entered.

13.5 L IN LCN

Description: The Lowest Incoming LCN (Logical Channel Number).
Valid Entries: If an entry is made in this field, the entry must be 1.

Data Rules:

For 5E8 and later, if ODB MLHG and TERM are entered and ODB CHL SEL equals "N", ODB L IN LCN or L 2W LCN must be entered.

13.6 H IN LCN

Description: The Highest Incoming Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

The L IN LCN and H IN LCN fields must both be entered in order to define a range of incoming LCNs.

The value entered in this field must be greater than or equal to the value entered in the L IN LCN field.

13.7 L 2W LCN

Description: The Lowest Two-Way Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If this field and the H IN LCN fields are entered, then the value entered in this field must be greater than the value entered in the H IN LCN field.

For 5E8 and later, if ODB MLHG and TERM are entered and ODB CHL SEL equals "N", ODB L IN LCN or L 2W LCN must be entered.

13.8 H 2W LCN

Description: The Highest Two-way Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If the L 2W LCN field is entered, then the H 2W 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 L 2W LCN field.

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13.9 L OUT LCN

Description: The Lowest Outgoing Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If this field and the H 2W LCN fields are entered, than the value entered in this field must be greater than the value entered in the H 2W LCN field.

13.10 H OUT LCN

Description: The Highest Outgoing Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If the L OUT LCN field is entered, then the H OUT LCN field must be entered in order to define a range of Outgoing LCNs.

The value entered in this field must be greater than or equal to the value entered in the L OUT LCN field.

13.11 BUSY LIMIT

Description: Enter the busy limit for this MLHG terminal. The busy limit represents the maximum number of concurrent incoming virtual calls an MLHG member may receive before the member is marked busy for hunting purposes. Calls to non-hunt DNs are included in the incoming call count but are not restricted by the busy limit.

Software Release: 5E8 and later
Valid Entries:
If CHL SEL is "Y": 1 - 269
If CHL SEL is "N": 1 - 127

Data Rules:

This field is applicable to MLHG members only. If ODB MLHG and TERM are not entered, ODB BUSY LIMIT must not be entered.

If ODB MLHG and TERM are entered, BUSY LIMIT should be set according to the rules that follow. When BUSY LIMIT is not entered, the maximum value for the applicable rule will be assigned.

- If the DSL is on a PH3 and ODB CHL SEL is set to "N", ODB BUSY LIMIT must be less than or equal to the sum of ODB IN LCNs plus ODB 2W LCNs.
- If ODB CHL SEL is set to "Y", ODB BUSY LIMIT must be less than or equal to the sum of IN LCNs and 2W LCNs of all associated packet (PPB1, PPB2, DPKT, and ODB) services with CHL SEL set to "Y" for this user. If two ODBs are provisioned, add twice the value of the first ODB's IN LCNs plus 2W LCNs to the count.

13.12 ICB

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Description: Will the Incoming Calls Barred feature be activated? ICB prevents the user from receiving incoming virtual calls. The user can still originate outgoing virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then the L IN LCN, H IN LCN, L 2W LCN and H 2W LCN fields must not be entered.

13.13 OCB

Description: Will the Outgoing Calls Barred feature be activated? OCB prevents the user from originating outgoing virtual calls. The user can still receive incoming virtual calls.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then the L OUT LCN, H OUT LCN, L 2W LCN and H 2W LCN fields must not be entered.

If the OCB field is "Y" and the ICB field is "N", then the L IN LCN and H IN LCN fields must be entered.

If the OCB field is "Y" and the ICB field is "N", then the L IN LCN and H IN LCN must be entered.

13.14 PMDR GRP

Description: Enter the MDR group name associated with the On Demand B-Channel Packet TN.

Software Release: 5E7 and later
Valid Entries: 1 - 8 characters

Data Rules:

If ODBTN is not entered, PMDR GRP should not be entered.

If PMDR GRP is entered, PMDR ACT must be entered, and it must be defined on the MDRGP form as MDR GROUP NAME where PACKET MDR is "Y". If PMDR GRP is not entered, PMDR ACT must not be entered.

13.15 PMDR ACT

Description: Is the Packet MDR Group active for the On Demand B-Channel TN?

Software Release: 5E7 and later.
Valid Entries: Y, N

Data Rules:

If PMDR GRP is not entered, PMDR ACT must not be entered.

14. FORM ENTRIES, 5908-13 RECORD

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14.1 BASE AND CONTROL, ESS UNIT

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

14.2 SEND TPC

Description: The Throughput Class of a virtual call from the terminal to the switch.

Required Field.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800,
- 9600 or 19200

14.3 SEND PKTSZ

Description: Send Packet Size is the maximum number of bytes of data in a packet (excluding control type information) that can be sent.

Required Field.
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

If the FCPN field is "N", than this field must equal 128.

14.4 SEND PKTWD

Description: The number of data packets that the CPE device can have unacknowledged, on a sending basis, at any time.

Required Field.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if ODB SEND PKTWD or ODB RCV PKTWD is not 2, ODB FCPN must be "Y".

14.5 SEND MCT

Description: Enter the maximum combined throughput in kilobits per second for the sending direction. When the sum of the sending throughput of virtual calls exceeds the SEND MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

14.6 RCV TPC

Description: The Throughput Class of a virtual call to the terminal from the switch.

Required Field.

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Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800,
- 9600 or 19200

14.7 RCV PKTSZ

Description: The Receive Packet Size is the maximum number of bytes of data in a packet (excluding control type information) that can be received.

Required Field.
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

If the FCPN field is "N", than this field must equal 128.

14.8 RCV PKTWD

Description: The number of data packets that the CPE device can have unacknowledged, on a receiving basis, at any time.

Required Field.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if ODB SEND PKTWD or ODB RCV PKTWD is not 2, ODB FCPN must be "Y".

14.9 RCV MCT

Description: Enter the maximum combined throughput in kilobits per second for the receiving direction. When the sum of the receiving throughput of virtual calls exceeds the RCV MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

14.10 FCPN

Description: Will the Flow Control Parameter Negotiation feature be activated? FCPN allows the PH and the CPE device to negotiate the Window Size (2 or 3) and the Packet Size (128 or 256 bytes) on a per-call basis. Data transmission between a CPE and a PH is controlled separately for each direction and is controlled by the receiver of the data. This is, in CCITT nomenclature, referred to as flow control. An additional aspect of flow control is the ability of the PH to limit the rate at which it accepts packets when it recognizes network congestion.

Required Field.
Default: N
Valid Entries: Y, N

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14.11 TPCN

Description: Will the Throughput Class Negotiation feature be activated? TPCN allows sending and receiving entities to negotiate the bits/second that are transmitted in either direction on a per-call basis. Both the sending and receiving party must subscribe to this service.

Required Field.
Default: N
Valid Entries: Y, N

14.12 REV CHARGE

Description: Will the called CPE device accept the charge for a call from a PH?

Required Field.
Default: N
Valid Entries: Y, N

14.13 LCP

Description: Will Local Charge Prevention be activated? When LCP is "Y", all the X.25 outgoing calls from this user will be Reverse Charged, and any X.25 incoming calls that contain Reverse Charge will be cleared.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

LCP is not allowed with Reverse Charge. If LCP is "Y", then REV CHARGE must be "N".

D SERV on the DSL form associated with this form must not equal "XMP" when LCP is "Y".

14.14 IECPDNIC

Description: The DNIC (Data Network ID Code) for Inter-Exchange Carrier Pre-select.
Valid Entries: 1 - 9999

Data Rules:

This entry must be defined in the DNIC field on a PSDNICRI form.

14.15 FSA

Description: Will the Fast Select Acceptance feature be activated? FSA allows a CPE device to receive up to 128 bytes of user data with call setup and clearing packets.

Required Field.
Default: N
Valid Entries: Y, N

14.16 IA

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Description: Will the ISDN Intercom Addressing feature be activated? IA permits the ISDN user to access other users on the 5ESS Switch with a 4- or 7-digit number.

Required Field.
Default: N
Valid Entries: Y, N

14.17 PB GRP

Description: The Packet Switching Data Business Group Service feature. PB GRP enables the customer to set up and administer intra-switch PBG (Packet Business Groups) by assigning a PBG number to each X.25 termination to distinguish between intra-PBG and other calls on the AMA record.
Valid Entries: 1 - 100

Data Rules:

An MLHG is assigned to a PBG by associating the PBG with an MLHG on an MLHG form. The DSLUSR form should only be used to assign a PBG if the MLHG member has a known MLHG TN.

Do not enter a value if this user is not a member of a PBG.

For 5E8 and later when ODB PB GRP is entered, OE must be entered, and the PB GRP must be defined on a PBGRP form (5931 Record).

If ODB PB GRP and ODB MLHG are entered, ODB MLHG TN must also be entered.

14.18 X25VER

Description: The Packet Switch D-Channel X.25 CCITT Version Supported for this DTE.

Software Release: 5E6 and later
Required Field.
Default: 1984
Valid Entries: 1980, 1984

14.19 NOTIF

Description: Enter the Notification Class.

If a call is routed to a channel with Conditional Notification when the Layer 1 is up on the channel, but Layer 2 is down for the channel, the channel will be notified of the incoming call. The channel is notified by sending a Q.931 message on the D-channel. If the user accepts the call by responding to the Q.931 message, the switch will initiate Layer 2 setup procedures on the channel and offer the call.

If ODB service is not subscribed to, this field must not be entered.

Software Release: 5E8 and later
Valid Entries:

Valid NOTIF Entries

Entry	Definition
COND	Conditional notification
NO	No notification

Data Rules:

This field is required when ODB TN and OE are entered.

If NOTIF is "COND", the following must be true:

- ODB MLHG and TERM must not be entered.
- ODB T3XX must be 0.
- ODB ICB must be "N".
- If ODB CHL SEL is "N", ODB L IN LCN or ODB L 2W LCN must be entered.

14.20 T3XX

Description: This timer is invoked when an On Demand B-channel connection exists between the CPE and the PH, but no virtual calls are taking place. The timer is started when the ODB connection is first established, stopped any time the number of active X.25 virtual calls on that ODB connection changes from zero to one, and restarted any time the number of active X.25 virtual calls on that ODB connection changes from one to zero.

If the timeout value is reached, the connection between the CPE and the PH is torn down. This allows other users in a Multipoint scenario to use the B-channel and saves the end customer from unnecessary connection tariffs.

A value of 0 indicates that the ODB user does not subscribe to the T3XX timer; in this case, the timer is not used.

Required Field for 5E9(1) and later.
Default:

For 5E9(1) and later: 0
Valid Entries: 0, or 10 - 60 (minutes)

14.21 ICP

Description: Are originating or terminating packet calls to be denied? Intercept, in the packet switched world, is a packet message denying service.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

ICP must be "N" when a TN is defined on the LINE (5109 Record) or MLHG (5110 Record) form.

If ODB ICP is "Y" and ODB MLHG is entered, then OE must be entered.

14.22 HUNT NOTIF

Description: Indicate the Hunting Notification procedure to be used for processing an X.25 CLAMN (Called Line Address Modified Notification) facility and a modified address for this Multi-Line Hunt Group member.

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The X.25 CLAMN feature allows the terminating CPE or switch to return the X.25 CLAMN facility, along with a modified Called Address field containing the non-hunt DN for the end-point, to the calling party. When a call is offered to a packet-mode hunt terminal as part of hunting, CLAMN signaling is returned to the calling party to indicate that a hunt was performed.

If HUNT NOTIF is blank, the CLAMN feature is not applicable.

Software Release: 5E8 and later
Valid Entries:

Valid HUNT NOTIF Entries

Entry	Definition
YES	The switch initiates CLAMN procedures when the terminating DTE does not. If neither the CLAMN nor the modified address is present, the switch will insert the CLAMN and non-hunt telephone number into the X.25 call request packet and allow the X.25 call to proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
NO	The switch does not initiate CLAMN procedures. If neither the CLAMN facility nor the modified address is present, or if both are present, the X.25 call will proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
OLD	The X.25 CLAMN procedure that existed prior to the 5E8 Software Release is used.

Data Rules:

This field is applicable to MLHG members only. If ODB MLHG and TERM are not entered, ODB HUNT NOTIF must not be entered.

If ODB MLHG and TERM are entered, ODB HUNT NOTIF must be entered.

If ODB HUNT NOTIF is "YES", ODB MLHG TN must be entered.

14.23 SUST

Description: Is termination denied for packet switched services?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the ODB TN field is entered, this field must be "N".

14.24 DNA

Description: Enter the first DN CA for ODB. This field, along with DNA QTY, is used to set the range of ODB DNAs. Each DNA must be unique. See Division 2, Section 1AM for more information on how to determine if CAs are duplicated.

Software Release: 5E9(1) and later
Valid Entries: 1 - 254

Data Rules:

If ODB DNA is entered, ODB DNA QTY must be entered.

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The range of ODB DNAs cannot overlap with the range of any of the following: AU DNAs, CAs, DPKT DNAs, K56 DNAs, K64 DNAs, or SP DNAs.

If ODB DNA or ODB DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

14.25 DNA QTY

Description: Enter the number of DN CAs for ODB.

Software Release: 5E9(1) and later
Valid Entries: 1 - 4

Data Rules:

If ODB DNA QTY is entered, ODB DNA must be entered. The sum of ODB DNA and ODB DNA QTY cannot exceed 255.

If DPKT DNA QTY and ODB DNA QTY are both entered, and either DPKT MLHG equals ODB MLHG or DPKT TN equals ODB TN, then the sum of DPKT DNA QTY and ODB DNA QTY cannot exceed 4.

If ODB DNA or ODB DNA QTY is entered, DSL CLS must be "STD" on the corresponding DSL form.

14.26 CUGPX

Description: The Preferential Customer CUG (Closed User Group) Index.
Valid Entries: 0 - 99

Data Rules:

This entry must appear in the CUG IDX field on a PSCUG form.

14.27 CUGOA

Description: The Closed User Group Outgoing Access indicator. CUGOA permits CUG members to access CPE devices that do not belong to a CUG or CPE devices that belong to a CUG with Incoming Access.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the Packet Service types DPKT and ODB have CUGOA or CUGIA set to "Y". then a corresponding PSCUG form must have entries in the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services.

14.28 CUGIA

Description: Will the Closed User Group Incoming Access indicator be activated? CUGIA permits CUG members to access CPE devices that do not belong to a CUG or CPE devices that belong to a CUG with Outgoing Access.

Required Field.
Default: N

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Valid Entries: Y, N

Data Rules:

If the Packet Service types DPKT and ODB have CUGOA or CUGIA set to "Y". then a corresponding PSCUG form must have entries in the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services.

15. FORM ENTRIES, 5908-14, 15 RECORD

15.1 BASE AND CONTROL, ESS UNIT

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

ICI

The ICI LIST field (Section 15.2) is used in connection with the ICI (Incoming Call Identification) feature. ICIs assigned here determine the types of calls an ISDN attendant serves. For more detail on these fields, refer to ISDN Attendant Hunting and Queuing (Division 2, Section 1T). The ICI List is continued on the 5908-11 Record.

15.2 ICI LIST

Description: ICI 1 through ICI 16 list ICI values assigned to an ISDN Attendant Terminal.

Valid ICI LIST Entries

Entry	Definition
CFBL	For calls that have been call forwarded via a call forward busy line feature.
CFDA	For calls that have been call forwarded via a call forward don't answer feature.
CFOH	For calls that have been forwarded via a call forward don't answer feature; in this case, the terminal the call was forwarded from was "off hook" (on another call appearance).
CFV	For calls that have been call forwarded via a call forward variable feature.
CNET	CNET Trunk Group ICI. Identifies calls originating from a trunk group designated as a Corporate Network trunk group.
DCL	Identifies a call originating from a manual (no-dial) line.
EMER	Identifies a call where the user dialed the attendant using a prespecified IDP code defined for emergencies (ACTION = "EMER"). When assigned, EMER ICI must be assigned to all terminals on an MLHG.
FTS	Software Release: 5E9(2) and later. Federal Telecommunications System. Used for calls that have arrived from a trunk group recognized as an FTS trunk group.
FTSICN	Software Release: 5E9(2) and later. Identifies calls on an FTS incoming trunk to a CENTREX Network. For more information on the CENTREX Network features see Division 2, Sections 4A181, 4A182, and 4A183.
FXICN	Software Release: 5E9(2) and later. Identifies calls on an FX incoming trunk to a CENTREX Network. For more information on the CENTREX Network features see Division 2, Sections 4A181, 4A182, and 4A183.
FX1-8	Foreign Exchange Trunk Group ICIs (FX1 through FX8). Used for calls that have arrived from a trunk group recognized as FX.
ICPT	Used for calls intercepted and redirected to the attendant because of the IDP
LDNx	The subgroup (LDN1 through LDN8x) that the call arrived on. LDN is the Listed Directory Number. LDNx is used for calls arriving at MLHGs with no other ICI. ISAT MLHGs may have up to 8 subgroup TNs defined on the MLHG form. LDN ICIs have a one-to-one relationship to SUBTN fields. For each LDN ICI defined here, there must be a corresponding SUBTN entry on the MLHG form. If LDN ICIs are assigned, WAT ICIs cannot be assigned (i.e., they cannot be mixed).
PPEXEC	Indicates that the precedence "Executive" was used on this call.

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PPFLSH	Indicates that the precedence "Flash" was used on this call.
PPFOVR	Indicates that the precedence "Flash Override" was used on this call.
PPIMMD	Indicates that the precedence "Immediate" was used on this call.
PPPRIO	Indicates that the precedence "Priority" was used on this call.
PPROUT	Indicates that the precedence "Routine" was used on this call.
PRIO	Identifies an MCA (Multiple Call Appearance) Priority Call.
QUE	Software Releases: 5E6 and later. Queues calls to individual hunted TNs.
RBQ	Calls that have terminated after the ring back queuing feature was used to camp on to a busy trunk group.
RLT	RLT (Release Link Trunk) service for ISDN attendants.
TIE1-8	Tie Trunk Group ICIs (TIE1 through TIE8). Used for calls that have arrived from a trunk group recognized as a TIE trunk group.
TIEICN	Software Release: 5E9(2) and later. Identifies calls on a TIE incoming trunk to a CENTREX Network. For more information on the CENTREX Network features see Division 2, Sections 4A181, 4A182, and 4A183.
WATx	(WAT1 through WAT5) Used for calls arriving at the ISAT group as INWATS calls. The WATs ICIs have a one-to-one relationship with SUBTN fields one through five on the MLHG form; therefore, for each WAT ICI defined, there must be a corresponding SUBTN entry on the MLHG form. ISAT INWATS MLHGs can have no more than five subgroup TNs.

Data Rules:

If an ICI is entered in the ICI LIST, then the CKT MLHG and CKT TERM fields must be entered.

ICIs are used by ISDN Attendants. Therefore, if any ICIs are entered on this form, the CKT MLHG must be defined on an MLHG form where the MLHG FEATURE is defined on an MLHGFD form with a HUNT TYPE of "ISAT".

If precedence ICIs (PPxxxx) are entered, then one or more WATs ICIs or LDN ICIs must be entered; but not both types. EMER and QUE ICIs can also be entered with precedence ICIs (PPxxxx). For 5E9(1) and later, only "EMER", "QUE", "WAT" or "LDN" ICIs are valid with precedence (PPxxxx) ICIs on the ICI LIST.

At least one EMER ICI must be entered in the list if there is an ICIPF form (5903 Record) where the GRP TYP field is "HUNT", the GRP NBR field is the same value as the CKT MLHG on this DSLUSR form and at least one "EMER" has been entered in the HUNTING ICI list.

For 5E6 and later, at least one QUE ICI must be entered in the list if there is an ICIPF form (5903 Record) where the GRP TYP field is "HUNT", the GRP NBR is the same value as the CKT MLHG on this DSLUSR form and at least one "QUE" has been entered in the HUNTING ICI list.

An ICI assigned here must be assigned to a MLHG on a corresponding ICIPF form where the GRP TYP field is "HUNT". Forms correspond if the GRP NBR field on the ICIPF form is the same value as the CKT MLHG on this DSLUSR form.

FEATURE	DSLUSR FIELD(s)	LCC CLASS OF SERVICE
Account Code	CKT TN, MLHG/TERM	ISDN, ISATND
Authorization Code	CKT TN, MLHG/TERM	ISDN, ISATND
Automatic Call-Back	CKT TN, MLHG/TERM	ISDN
ACSR (Automatic Customer Station Rearrangement)	CKT TN	ISDN
ARS (Automatic Route Selection)	CKT TN, MLHG/TERM	ISDN, ISATND
ACVT (Attendant Control of Voice Terminal). CONTROL="TERM" on the ACTVFD form; the ACVT feature is defined on this form.	CKT TN, MLHG/TERM	ISDN
ACVT. CONTROL="ORIG" on the	CKT TN, MLHG/TERM	ISATND

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ACTVFD form.		
ACVT. ACT TYPE="CODE" and DEACT TYPE="AUTO" on ACTVFD form.	CKT TN, MLHG/TERM	ISDN, ISATND
Call Forwarding	CKT TN, MLHG/TERM	ISDN, ISATND
Call Pickup Originating	CKT TN, MLHG/TERM	ISDN, ISATND
PUO (Call Pickup Originating)	INITIATE="BSYVFY" or "EMEROVR" on the PUOFD form.	CKT TN, MLHG/TERM
Call Pickup Terminating	CKT TN, MLHG/TERM	ISDN, ISATND
Call Pickup Terminating. Defined on PUTFD form with FEATURE FUNCTION="HDIRPUBRG"and a MULTIWAY FEATURE entered.	CKT TN, MLHG/TERM	ISDN
Call Pickup Terminating. Defined on PUTFD form with FEATURE FUNCTION="TEMEROVR" and a MULTIWAY FEATURE entered.	CKT TN, MLHG/TERM	ISDN
Call Waiting	CKT TN, MLHG/TERM	ISDN, ISATND
Calling Party Number/Billing Number	CKT TN, MLHG/TERM, DPKT	ISDN, ISATND INDIV
Display. INSPECT="Y" on the DISPFD form.	CKT TN, MLHG/TERM	ISDN, ISATND. If "ISDN", TERM TYPE on DSLUSR form must be TYPEA
Display TIMEDATE="Y" on the DISPFD form.	CKT TN, MLHG/TERM	ISDN, ISATND. If "ISDN", must be TYPEA.
Display	CKT TN, MLHG/TERM	ISDN, ISATND
Distinctive Ringing	CKT TN, MLHG/TERM	ISDN
Individualized Dialing Plan		ISDN, ISATND
LINE Identification	CKT TN, MLHG/TERM	ISDN, ISATND
Message Detail Recording	CKT TN	ISDN, ISATND
Message Service System	CKT TN, MLHG/TERM	ISDN, ISATND
Message Service System MSG RTRVL DISP="Y" on MSFD form;this feature is defined on the MSFD form	CKT TN, MLHG/TERM	ISATND, ISDN
Message Service System. AUTO CALL="Y" on MSFD form; this feature is defined on the MSFD form	CKT TN, MLHG/TERM	ISATND, ISDN
Multiway Calling	CKT TN, MLHG/TERM	ISDN, ISATND
Precedence & Preemption	CKT TN, MLHG/TERM	ISDN, ISATND
Private Facility Access	CKT TN, MLHG/TERM	ISDN, ISATND
	ODB TN	ISDN. TERMINATING TREATMENT="INDIV" on LCC form.
	CKT MLHG/TERM. TERM TYPE="ATND" on DSLUSR form.	ISATND. TERMINATING TREATMENT="MLHG" or "INWATS" on LCC
	CKT TN; DPKT TN	MLHG/TERM
	CKT MLHG/TERM	ISDN, ISATND. TERMINATING TREATMENT="MLHG" or "INWATS".
	DPKT MLHG/TERM. DPKT MLHG TN is blank and D SERV is not "XMP" on DSL form (DSL is found by matching DSL on DSLUSR form to DSL on DSL form).	ISDN. TERMINATING TREATMENT="MLHG" on LCC form.
	DPKT MLHG/TERM. DPKT MLHG TN is entered and D SERV is not "XMP" on the DSL form.	
	DPKT MLHG/TERM. D SERV="XMP" on the DSL form (DSL is found by matching OE value on DSLUSR form to the OE value on DSL form).	ISDN. TERMINATING TREATMENT= "AGING" on the LCC form.

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Terminal Group & Station Restriction	CKT TN, MLHG/TERM	ISDN, ISATND
	CKT MLHG/TERM; DPKT MLHG/TERM.INWATS="Y" on MLHGFD form.	DSLUSR LCC/RAX must point to LCC form with TERMINATING TREATMENT= "INWATS".
	CKT MLHG TN. ATT TNs assigned on the PFASFG form are defined on DSLUSR form.	ISATND
	CKT MLHG/TERM; NONHUNT="Y".	

NOTE: Non-Hunt members and Terminal numbers greater than 3000 require TERMINATING TREAMENT="INDIV".

Figure 1 DSLUSR LCC/RAX VALUES AND CORRESPONDING CLASS OF SERVICE

DSLUSR FIELD	TERM TYPE						
	none	ATND	TYPEA	TYPEB	TYPEC	TYPED	TYPEE
AUTO HOLD	N	N	N		N		N
BRCS	N						
CA	-	*	-	*	*	*	-
CA PREF	I	I	I		I		I
CA QTY	-	*	*	*	*	*	-
CKT MLHG	-	*					
CKT TERM	-	*					
CKT TN		-					
CONFIG GRP	-						
CSD		Note 3	Note 3	Note 3	Note 3	Note 3	*
CSV		not=2	not=2	not=2	not=2	not=2	-
DISPLAY	N						
DPKT MLHG		-					
DPKT TERM		-					
DPKT TN		-					
INCOMING	N	N					N Note 4
INTERCOM	N	N					N Note 4
ODB TN		-					
ONE TOUCH	N	N	N		N		N
ORIG CW	N	N					N Note 4
PP	N	N					N Note 4
PPB1 USR		N					
PPB2 USR		N					
PRIVACY	N						
SAR NUM	-	-					- Note 4
SAR ORIG	N	N					N Note 4
SAR TERM	N	N					N Note 4
SHARED	N	N	N	N			N
TIME MODE	N						

Note 1: The "N" and "I" in the above table refer to the values for those fields
Note 2: A dash (-) indicates that the field must not have an entry; an asterisk (*) indicates that the field must have an entry.
Note 3: If TERM TYPE field is "ATND", "TYPEA", "TYPEB", "TYPEC" or "TYPED", a value must be entered for the CSV and/or CSD fields.
Note 4: TYPEE must be "N" for 5E8 and earlier and for 5E9(2) and later, but not for 5E9.

Figure 2 TERMINAL TYPE DEPENDENCIES

```
SCREEN 1 OF 10                    5ESS Switch
dslusr                     OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER
```

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```
(*)1. CKT TN    ___________          USER INFO
(*)2. DPKT TN   ___________     13. USPID        ____________________
(*)3. ODB TN    ___________     14. MAXB CHL     _
(*)4. CKT MLHG  _____           15. ACT USR      Y
(*)5. CKT TERM  _____           16. DFLT TN USER N
(*)6. DPKT MLHG _____           17. PPB1 USR     _
(*)7. DPKT TERM _____           18. PPB2 USR     _
(*)8. ODB MLHG  _____           19. AGI          _
(*)9. ODB TERM  _____           20. INHIBIT DEL  N
  10. OE        _ ____________
```

```
SCREEN 2 OF 10                    5ESS Switch
dslusr                     OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER (CKT)

21. MLHG TN  ___________            CIRCUIT VOICE (CSV)       CIRCUIT DATA (CSD)
22. LCC      ___               27. CSV         _         36. CSD         _
23. RAX      __                28. CSV CHL     ___       37. CSD CHL     ___
    NEW TN                     29. CSV ACO     ______    38. CSD ACO     ______
24. BILL TN  ___________        30. CSV LIMIT   __        39. CSD LIMIT   __
25. CPN SCRN N                 31. CSV NBLIMIT __        40. CSD NBLIMIT __
26. RMK      ___________________ 32. SP DNA     ___       41. K56 DNA     ___
                                33. SP DNA QTY  __        42. K56 DNA QTY __
                                34. AU DNA      ___       43. K64 DNA     ___
                                35. AU DNA QTY  __        44. K64 DNA QTY __
```

```
SCREEN 3 OF 10                    5ESS Switch
dslusr                     OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER (CKT)

45. SUST       N               57. AC ALW     _
46. ICP        N               58. AR ALW     _
47. CA         ___             59. COT ALW    _
48. CA QTY     __              60. PCP ALW    _
49. BRCS       N               61. SCA GA ALW _
50. TERM TYPE  ______          62. SCF GA ALW _
51. CONFIG GRP _________       63. SCR GA ALW _
52. DISPLAY    N               64. SDA GA ALW _
53. EKTS       ______          65. ALT LANG   N
54. SHARED     N               66. FLS        N
55. PRIVACY    _               67. SUSO       N
56. TIME MODE  N               68. CONTEXT ID NATIVE
```

```
SCREEN 4 OF 10                    5ESS Switch
dslusr                     OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER (CKT)
```

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```
69. COMPL     N          81. DNY ROH       Y            91. PIC       ____
70. SLUS      N          82. BUSY MONITOR  N            92. PTC       ____
71. BRITL ALW _          83. ATT MLHG      ____         93. PLC       ____
72. DTLBILL   N          84. RBV TGN       ____         94. UNBUNDLED N
73. TRAFFIC   N          85. SERHLN        __________
74. SAR NUM   __             BCK LNK
75. SAR ORIG  N              QUEUE MONITOR
76. SAR TERM  N          86. EPO POS NUM   _____
77. NONHUNT   N          87. EPO ON        N
78. CA PREF   I          88. ACD POS NUM   ____
79. DNY BV    N          89. ACD GROUP     ___
80. TRC       N          90. CIDIAL        ALLOW
```

```
SCREEN 5 OF 10                    5ESS Switch
dslusr                      OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER (CKT)

 95. INCOMING  N          106. MMB SUBGP      ___   117. NI SAR LIST (SARLIST)
 96. INTERCOM  N          107. RND SUBGP      ___   ROW  TYPE AND ORDER  QTY
 97. ORIG CW   N          108. ERCO ASGN      N      1       ____         __
 98. PP        N               ERCO ACT              2       ____         __
 99. AUTO HOLD N          109. LONG DST DR    N      3       ____         __
100. ONE TOUCH N          110. E911 PSAP      _
101. LN TYPE   NONE       111. SCP ALW        N             ASP
102. BLK 1PLUS NONE       112. PASC           ____  120. OFC OBL INH   N
103. RMB       _________  113. ALT            N     121. OFC ONA INH   N
104. RND MKB   _________  114. LRN INDEX      ___         MONITORED TN  _
105. STH       _________  115. PORTED-IN AMA  N           MONITORING TN _
                          116. NON COND TRIG  N
```

```
SCREEN 6 OF 10                    5ESS Switch
dslusr                      OFFICE DATA ADMINISTRATION
(5908-1 through 15)  DIGITAL SUBSCRIBER LINE USER (DPKT)

124. MLHG TN    __________          133. H PVC LCN  ___
125. LCC        ___                 134. L IN  LCN  ___
126. RAX        __                  135. H IN  LCN  ___
127. LNR HNT TN __________          136. L 2W  LCN  ___
128. HUNT DEACT N                   137. H 2W  LCN  ___
129. CHL SEL    N                   138. L OUT LCN  ___
     NEW TN                         139. H OUT LCN  ___
130. BILL TN    __________          140. BUSY LIMIT ___
131. RMK        ____________________ 141. ICB        N
132. FIXED TEI  __                  142. OCB        N
                                    143. PMDR GRP   _________
                                    144. PMDR ACT   _
```

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```
SCREEN 7 OF 10                    5ESS Switch
dslusr                      OFFICE DATA ADMINISTRATION
(5908-1 through 15)  DIGITAL SUBSCRIBER LINE USER (DPKT)

145. SEND TPC   9600          157. IECPDNIC   ____       169. CUGPX __
146. SEND PKTSZ 128           158. FSA        N          170. CUGOA N
147. SEND PKTWD 2             159. IA         N          171. CUGIA N
148. SEND MCT   __            160. PB GRP     ___
149. RCV TPC    9600          161. X25VER     1984
150. RCV PKTSZ  128           162. NOTIF      ____
151. RCV PKTWD  2             163. ICP        N
152. RCV MCT    __            164. HUNT NOTIF ___
153. FCPN       N             165. TCID       ____
154. TPCN       N             166. SUST       N
155. REV CHARGE N             167. DNA        ___
156. LCP        N             168. DNA QTY    _
```

```
SCREEN 8 OF 10                    5ESS Switch
dslusr                      OFFICE DATA ADMINISTRATION
(5908-1 through 15)   DIGITAL SUBSCRIBER LINE USER (ODB)

172. MLHG TN    __________  182. RATE    ____            189. L IN  LCN  ___
173. LCC        ___         183. N2      __              190. H IN  LCN  ___
174. RAX        __          184. T1      ___             191. L 2W  LCN  ___
175. LNR HNT TN __________  185. T3      __              192. H 2W  LCN  ___
176. HUNT DEACT N           186. WNDSZ   _               193. L OUT LCN  ___
177. CHL SEL    N                NEW TN                  194. H OUT LCN  ___
178. ISCN1      ______      187. BILL TN __________      195. BUSY LIMIT ___
179. ISCN2      ______      188. RMK     ________________ 196. ICB        N
180. BAND       __                                       197. OCB        N
181. ODB        _
```

```
SCREEN 9 OF 10                    5ESS Switch
dslusr                      OFFICE DATA ADMINISTRATION
(5908-1 through 15)   DIGITAL SUBSCRIBER LINE USER (ODB)

198. PMDR GRP   _________     210. REV CHARGE N           222. DNA     ___
199. PMDR ACT   _             211. LCP        N           223. DNA QTY _
200. SEND TPC   9600          212. IECPDNIC   ____        224. CUGPX   __
201. SEND PKTSZ 128           213. FSA        N           225. CUGOA   N
202. SEND PKTWD 2             214. IA         N           226. CUGIA   N
203. SEND MCT   ___           215. PB GRP     ___
204. RCV TPC    9600          216. X25VER     1984
205. RCV PKTSZ  128           217. NOTIF      ____
206. RCV PKTWD  2             218. T3XX        0
207. RCV MCT    ___           219. ICP        N
208. FCPN       N             220. HUNT NOTIF ___
```

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```
209. TPCN       N             221. SUST       N
```

```
SCREEN 10 OF 10                  5ESS Switch             _
dslusr                     OFFICE DATA ADMINISTRATION
(5908-1 through 15)       DIGITAL SUBSCRIBER LINE USER

                    227. ICI LIST
   ROW        ICI                 ROW         ICI

    1  ICI 1 _______               9  ICI  9 _______
    2  ICI 2 _______              10  ICI 10 _______
    3  ICI 3 _______              11  ICI 11 _______
    4  ICI 4 _______              12  ICI 12 _______
    5  ICI 5 _______              13  ICI 13 _______
    6  ICI 6 _______              14  ICI 14 _______
    7  ICI 7 _______              15  ICI 15 _______
    8  ICI 8 _______              16  ICI 16 _______
```

Figure 3 SAMPLE DSLUSR FORM 5E14 SOFTWARE RELEASES

```
dslusr                             5ESS Switch
SCREEN 1 OF 11              OFFICE DATA ADMINISTRATION
(5908)                     DIGITAL SUBSCRIBER LINE USER

(*)1. CKT TN    ___________                    USER INFO
(*)2. DPKT TN   ___________       13. USPID    ____________________
(*)3. ODB TN    ___________       14. MAXB CHL _
(*)4. CKT MLHG  _____             15. ACT USR  Y
(*)5. CKT TERM  _____             16. DFLT TN USER N
(*)6. DPKT MLHG _____             17. PPB1 USR _
(*)7. DPKT TERM _____             18. PPB2 USR _
(*)8. ODB MLHG  _____             19. AGI      _
(*)9. ODB TERM  _____             20. INHIBIT DEL  N
  10. OE        _ ____________
```

```
dslusr                             5ESS Switch
SCREEN 2 OF 11              OFFICE DATA ADMINISTRATION
(5908)                 DIGITAL SUBSCRIBER LINE USER (CKT)

21. MLHG TN  ___________          CIRCUIT VOICE (CSV)       CIRCUIT DATA (CSD)
22. LCC      ___                  28. CSV         _         37. CSD         _
23. RAX      ___                  29. CSV CHL     ___       38. CSD CHL     ___
    NEW TN   ___________          30. CSV ACO     _____     39. CSD ACO     _____
25. BILL TN  ___________          31. CSV LIMIT   __        40. CSD LIMIT   __
26. CPN SCRN N                    32. CSV NBLIMIT __        41. CSD NBLIMIT __
27. RMK      __________________   33. SP DNA      ___       42. K56 DNA     ___
```

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```
                                34. SP DNA QTY  __       43. K56 DNA QTY __
                                35. AU DNA      ___      44. K64 DNA     ___
                                36. AU DNA QTY  __       45. K64 DNA QTY __
```

```
                          dslusr                                5ESS Switch

SCREEN 3 OF 11              OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER (CKT)

46. SUST        N           58. AC ALW     _
47. ICP         N           59. AR ALW     _
48. CA          ___         60. COT ALW    _
49. CA QTY      __          61. PCP ALW    _
50. BRCS        N           62. SCA GA ALW _
51. TERM TYPE   _____       63. SCF GA ALW _
52. CONFIG GRP  _________   64. SCR GA ALW _
53. DISPLAY     N           65. SDA GA ALW _
54. EKTS        _____       66. ALT LANG   N
55. SHARED      N           67. FLS        N
56. PRIVACY     _           68. SUSO       N
57. TIME MODE   N           69. CONTEXT ID NATIVE
```

```
dslusr                              5ESS Switch
SCREEN 4 OF 11              OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER (CKT)

70. COMPL      N     82. DNY ROH        Y            94. PIC        ____
71. SLUS       N     83. BUSY MONITOR   N            95. PTC        ____
72. BRITL ALW  _     84. ATT MLHG       ____         96. PLC        ____
73. DTLBILL    N     85. RBV TGN        ____         97. UNBUNDLED N
74. TRAFFIC    N     86. SERHLN         __________
75. SAR NUM    __        BCK LNK        ___
76. SAR ORIG   N         QUEUE MONITOR  ___
77. SAR TERM   N     89. EPO POS NUM    _____
78. NONHUNT    N     90. EPO ON         N
79. CA PREF    I     91. ACD POS NUM    ____
80. DNY BV     N     92. ACD GROUP      ___
81. TRC        N     93. CIDIAL         ALLOW
```

```
dslusr                              5ESS Switch
SCREEN 5 OF 11              OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER (CKT)
```

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```
 98. INCOMING  N          109. MMB SUBGP     ___    121. NI SAR LIST (SARLIST)
 99. INTERCOM  N          110. RND SUBGP     ___    ROW TYPE AND ORDER QTY
100. ORIG CW   N          111. ERCO ASGN     N       1       _____      __
101. PP        N               ERCO ACT     N       2       _____      __
102. AUTO HOLD N          113. LONG DST DR   N       3       _____      __
103. ONE TOUCH N          114. E911 PSAP     _
104. LN TYPE   NONE       115. SCP ALW       N      MONITORED TN  _
105. BLK 1PLUS NONE       116. PASC          ____   MONITORING TN _
106. RMB       __________ 117. ALT           N
107. RND MKB   __________ 118. LRN INDEX     ___
108. STH       __________ 119. PORTED        N
                          120. NON COND TRIG N
```

```
dslusr                              5ESS Switch
SCREEN 6 OF 11                OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER (CKT)

       ASP
126. OFC OBL INH N
127. OFC ONA INH N
128. URT FCD BLK N
     BLK LN CODE _
```

```
dslusr                              5ESS Switch
SCREEN 7 OF 11                OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER (DPKT)

130. MLHG TN    __________          140. H PVC LCN  ___
131. LCC        ___                 141. L IN LCN   ___
132. RAX        ___                 142. H IN LCN   ___
133. LNR HNT TN __________          143. L 2W LCN   ___
134. HUNT DEACT N                   144. H 2W LCN   ___
135. CHL SEL    N                   145. L OUT LCN  ___
     NEW TN     __________          146. H OUT LCN  ___
137. BILL TN    __________          147. BUSY LIMIT ___
138. RMK        ________________    148. ICB        N
139. FIXED TEI  __                  149. OCB        N
                                    150. PMDR GRP   _________
                                    151. PMDR ACT   _
```

---

dslusr

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```
                    5ESS Switch
SCREEN 8 OF 11           OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (DPKT)

152. SEND TPC   9600     164. IECPDNIC   _____    176. CUGPX __
153. SEND PKTSZ 128      165. FSA        N        177. CUGOA N
154. SEND PKTWD 2        166. IA         N        178. CUGIA N
155. SEND MCT   __       167. PB GRP     ___
156. RCV TPC    9600     168. X25VER     1984
157. RCV PKTSZ  128      169. NOTIF      _____
158. RCV PKTWD  2        170. ICP        N
159. RCV MCT    __       171. HUNT NOTIF ___
160. FCPN       N        172. TCID       _____
161. TPCN       N        173. SUST       N
162. REV CHARGE N        174. DNA        ___
163. LCP        N        175. DNA QTY    _
```

```
                                                              dslusr
                    5ESS Switch
SCREEN 9 OF 11           OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (ODB)

179. MLHG TN    __________  191. T1      ___              197. L IN LCN   ___
180. LCC        ___         192. T3      __               198. H IN LCN   ___
181. RAX        ___         193. WNDSZ   _                199. L 2W LCN   ___
182. LNR HNT TN __________       NEW TN  __________       200. H 2W LCN   ___
183. HUNT DEACT N           195. BILL TN __________       201. L OUT LCN  ___
184. CHL SEL    N           196. RMK     ________________ 202. H OUT LCN  ___
185. ISCN1      _______                                   203. BUSY LIMIT ___
186. ISCN2      _______                                   204. ICB        N
187. BAND       __                                        205. OCB        N
188. ODB        _
189. RATE       _____
190. N2         __
```

```
dslusr                          5ESS Switch
SCREEN 10 OF 11           OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (ODB)

206. PMDR GRP   _________    218. REV CHARGE N       230. DNA     ___
207. PMDR ACT   _            219. LCP        N       231. DNA QTY _
208. SEND TPC   9600         220. IECPDNIC   _____   232. CUGPX   __
209. SEND PKTSZ 128          221. FSA        N       233. CUGOA   N
210. SEND PKTWD 2            222. IA         N       234. CUGIA   N
211. SEND MCT   ___          223. PB GRP     ___
212. RCV TPC    9600         224. X25VER     1984
213. RCV PKTSZ  128          225. NOTIF      _____
```

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```
214. RCV PKTWD  2           226. T3XX        0
215. RCV MCT    ___         227. ICP         N
216. FCPN       N           228. HUNT NOTIF ___
217. TPCN       N           229. SUST        N
```

```
dslusr                            5ESS Switch
SCREEN 11 OF 11            OFFICE DATA ADMINISTRATION
(5908)                 DIGITAL SUBSCRIBER LINE USER (ISAT)

>235. INCOMING CALL INDENTIFIER LIST (ICILIST)
ROW ICI     ROW ICI
 1  _______   9 _______
 2  _______  10 _______
 3  _______  11 _______
 4  _______  12 _______
 5  _______  13 _______
 6  _______  14 _______
 7  _______  15 _______
 8  _______  16 _______
```

Figure 4 SAMPLE DSLUSR FORM 5E15 SOFTWARE RELEASE

```
dslusr                            5ESS Switch
SCREEN 1 OF 11             OFFICE DATA ADMINISTRATION
(5908)                   DIGITAL SUBSCRIBER LINE USER

(*)1. CKT TN    ___________                    USER INFO
(*)2. DPKT TN   ___________       13. USPID    ____________________
(*)3. ODB TN    ___________       14. MAXB CHL _
(*)4. CKT MLHG  _____             15. ACT USR  Y
(*)5. CKT TERM  _____             16. DFLT TN USER N
(*)6. DPKT MLHG _____             17. PPB1 USR _
(*)7. DPKT TERM _____             18. PPB2 USR _
(*)8. ODB MLHG  _____             19. AGI      _
(*)9. ODB TERM  _____             20. INHIBIT DEL  N
  10. OE        _ ____________
```

```
dslusr                            5ESS Switch
SCREEN 2 OF 11             OFFICE DATA ADMINISTRATION
(5908)                 DIGITAL SUBSCRIBER LINE USER (CKT)

21. MLHG TN     ___________       CIRCUIT VOICE (CSV)    CIRCUIT DATA (CSD)
22. LCC         ___             29. CSV         _     38. CSD         _
```

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```
23. RAX            ___              30. CSV CHL     ___   39. CSD CHL     ___
24. CODE RESTRICT  ___              31. CSV ACO     _____ 40. CSD ACO     _____
    NEW TN         __________       32. CSV LIMIT   __    41. CSD LIMIT   __
26. BILL TN        __________       33. CSV NBLIMIT __    42. CSD NBLIMIT __
27. CPN SCRN       N                34. SP DNA      ___   43. K56 DNA     ___
28. RMK            ________________ 35. SP DNA QTY  __    44. K56 DNA QTY __
                                    36. AU DNA      ___   45. K64 DNA     ___
                                    37. AU DNA QTY  __    46. K64 DNA QTY __
```

```
dslusr                              5ESS Switch
SCREEN 3 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (CKT)

47. SUST       N           59. AC ALW     _
48. ICP        N           60. AR ALW     _
49. CA         ___         61. COT ALW    _
50. CA QTY     __          62. PCP ALW    _
51. BRCS       N           63. SCA GA ALW _
52. TERM TYPE  _____       64. SCF GA ALW _
53. CONFIG GRP _________   65. SCR GA ALW _
54. DISPLAY    N           66. SDA GA ALW _
55. EKTS       _____       67. ALT LANG   N
56. SHARED     N           68. FLS        N
57. PRIVACY    _           69. SUSO       N
58. TIME MODE  N           70. CONTEXT ID NATIVE
```

```
dslusr                              5ESS Switch
SCREEN 4 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (CKT)

71. COMPL     N     83. DNY ROH       Y            95. PIC       ____
72. SLUS      N     84. BUSY MONITOR  N            96. PTC       ____
73. BRITL ALW _     85. ATT MLHG      ____         97. PLC       ____
74. DTLBILL   N     86. RBV TGN       ____         98. UNBUNDLED N
75. TRAFFIC   N     87. SERHLN        __________
76. SAR NUM   __        BCK LNK       ___
77. SAR ORIG  N         QUEUE MONITOR ___
78. SAR TERM  N     90. EPO POS NUM   _____
79. NONHUNT   N     91. EPO ON        N
80. CA PREF   I     92. ACD POS NUM   ____
81. DNY BV    N     93. ACD GROUP     ___
82. TRC       N     94. CIDIAL        ALLOW
```

```
dslusr                              5ESS Switch
```

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```
SCREEN 5 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (CKT)

 99. INCOMING  N          110. MMB SUBGP     ___    122. NI SAR LIST (SARLIST)
100. INTERCOM  N          111. RND SUBGP     ___    ROW TYPE AND ORDER QTY
101. ORIG CW   N          112. ERCO ASGN     N       1       _____      __
102. PP        N               ERCO ACT      N       2       _____      __
103. AUTO HOLD N          114. LONG DST DR   N       3       _____      __
104. ONE TOUCH N          115. E911 PSAP     _
105. LN TYPE   NONE       116. SCP ALW       N      MONITORED TN  _
106. BLK 1PLUS NONE       117. PASC          ____   MONITORING TN _
107. RMB       __________ 118. ALT           N
108. RND MKB   __________ 119. LRN INDEX     ___
109. STH       __________ 120. PORTED        N
                          121. NON COND TRIG N
```

```
dslusr                              5ESS Switch
SCREEN 6 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (CKT)

       ASP
127. OFC OBL INH N
128. OFC ONA INH N
129. URT FCD BLK N
     BLK LN CODE _
```

```
dslusr                              5ESS Switch
SCREEN 7 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (DPKT)

131. MLHG TN    __________          142. H PVC LCN  ___
132. LCC        ___                 143. L IN LCN   ___
133. RAX        ___                 144. H IN LCN   ___
134. CODE RESCRICT ___              145. L 2W LCN   ___
135. LNR HNT TN __________          146. H 2W LCN   ___
136. HUNT DEACT N                   147. L OUT LCN  ___
137. CHL SEL    N                   148. H OUT LCN  ___
     NEW TN     __________          149. BUSY LIMIT ___
139. BILL TN    __________          150. ICB        N
140. RMK        ________________    151. OCB        N
141. FIXED TEI  __                  152. PMDR GRP   _________
                                    153. PMDR ACT   _
```

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```
dslusr                          5ESS Switch
SCREEN 8 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (DPKT)

154. SEND TPC   9600     166. IECPDNIC   _____    178. CUGPX __
155. SEND PKTSZ 128      167. FSA        N        179. CUGOA N
156. SEND PKTWD 2        168. IA         N        180. CUGIA N
157. SEND MCT   __       169. PB GRP     ___
158. RCV TPC    9600     170. X25VER     1984
159. RCV PKTSZ  128      171. NOTIF      _____
160. RCV PKTWD  2        172. ICP        N
161. RCV MCT    __       173. HUNT NOTIF ___
162. FCPN       N        174. TCID       _____
163. TPCN       N        175. SUST       N
164. REV CHARGE N        176. DNA        ___
165. LCP        N        177. DNA QTY    _
```

```
dslusr                          5ESS Switch
SCREEN 9 OF 11            OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (ODB)

181. MLHG TN       __________ 193. N2      __              200. L IN LCN   ___
182. LCC           ___        194. T1      ___             201. H IN LCN   ___
183. RAX           ___        195. T3      __              202. L 2W LCN   ___
184. CODE RESTRICT ___        196. WNDSZ   _               203. H 2W LCN   ___
185. LNR HNT TN    __________      NEW TN  __________      204. L OUT LCN  ___
186. HUNT DEACT    N          198. BILL TN __________      205. H OUT LCN  ___
187. CHL SEL       N          199. RMK     ________________ 206. BUSY LIMIT ___
188. ISCN1         _______                                 207. ICB        N
189. ISCN2         _______                                 208. OCB        N
190. BAND          __
191. ODB           _
192. RATE          _____
```

```
dslusr                          5ESS Switch
SCREEN 10 OF 11           OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (ODB)

209. PMDR GRP   _________    221. REV CHARGE N       233. DNA     ___
210. PMDR ACT   _            222. LCP        N       234. DNA QTY _
211. SEND TPC   9600         223. IECPDNIC   _____   235. CUGPX   __
212. SEND PKTSZ 128          224. FSA        N       236. CUGOA   N
213. SEND PKTWD 2            225. IA         N       237. CUGIA   N
214. SEND MCT   ___          226. PB GRP     ___
215. RCV TPC    9600         227. X25VER     1984
216. RCV PKTSZ  128          228. NOTIF      _____
```

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```
217. RCV PKTWD  2           229. T3XX        0
218. RCV MCT    ___         230. ICP         N
219. FCPN       N           231. HUNT NOTIF ___
220. TPCN       N           232. SUST        N
```

```
dslusr                              5ESS Switch            _
SCREEN 11 OF 11           OFFICE DATA ADMINISTRATION
(5908)                DIGITAL SUBSCRIBER LINE USER (ISAT)

>238. INCOMING CALL INDENTIFIER LIST (ICILIST)
ROW ICI    ROW ICI
 1  _______   9 _______
 2  _______  10 _______
 3  _______  11 _______
 4  _______  12 _______
 5  _______  13 _______
 6  _______  14 _______
 7  _______  15 _______
 8  _______  16 _______
```

Figure 5 SAMPLE DSLUSR FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 1J: 5909-1/2/3 RECORD
X.25 PACKET SWITCHING CHANNEL ASSIGNMENT FORM - XAT

1. GENERAL

The 5909-1/2 Record is available with 5E6 and later Software Releases. It is used to provision T1 facilities (digital lines and trunks) with X.25 Packet Switching services on a subscription basis using Q.931 signaling. When this form is entered, ports are defined for each channel of the T1 facility selected for packet switching. For 5E6 and later Software Releases, T1 facility channels can be provisioned and supported like BRI (Basic Rate Interface) Permanent Packet B-channels, which includes membership in MLHGs (Multi-line Hunt Groups).

The term and form name XAT refer to X.25 access to T1 facility DS0 channels. The term "DS0" refers to a single data channel or single digitally transmitted voice channel.

A T1 facility contains up to twenty-four separate DS0 channels. Each channel can be provisioned for packet switching. Any DS0 channels not being used for packet switching can still be used for other digital services (anywhere an individual Digital Equipment Number is assigned) on the 5ESS switch. The number of channels chosen to carry packet switched data also can be changed on a subscription basis, however, On-demand B-channel packet switching services are not available on XAT channels.

Circuit switching and packet switching services (XAT channels) can coexist on the same T1 facility. If circuit-switched services are not desired, signaling via the D-channel is not needed and channel 24 becomes available for packet switching. However, if any channels of the T1 facility are provisioned for PRI use, no packet switching services are allowed on the PRI D-channel (channel 24). No circuit switching services are allowed on DS0 channels selected for B-channel packet switching and, likewise, no packet services are allowed on DS0 channels selected for circuit switching.

1.1 LCN (Logical Channel Numbers)

LCNs represent SVCs and/or PVCs. These circuits connect CPE devices with each other to transmit packet switched data.

SVCs exist only for the period of the call. The CPE device and the PH interact through CCITT (International Telegraph and Telephone Consultative Committee) specified packet communication to connect and clear the SVC for each call. A PVC is a permanent, two-way connection between CPE devices. There is a system limitation of 128 simultaneously active LCNs (SVCs and/or PVCs) for each PH.

The CCITT has specified an order of assigning the four categories of LCNs. The lowest numbers (1 to x) can be used for the PVCs, if PVCs are desired. The H PVC LCN field (highest PVC LCN) indicates the highest numbered LCN that is a PVC. For example, if the H PVC LCN field is 7, 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 Lowest Incoming LCN (L IN LCN) field and the Highest Incoming LCN (H IN LCN) field.

The next highest range of numbers for LCNs belongs to the two-way SVCs. This range is indicated in the Lowest Two-way LCN (L 2W LCN) field and the Highest Two-way LCN (H 2W LCN) field.

The highest range of numbers for LCNs belongs to the outgoing only SVCs. This range is indicated in the Lowest Outgoing LCN (L OUT LCN) field and the Highest Outgoing LCN (H OUT LCN) field.

For example, LCNs could be defined as follows:

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H PVC LCN = 2 (LCN 1 & 2 are PVC)

IN LCN = 3

IN LCN = 4 (LCN 3 & 4 are incoming SVC)

L 2W LCN = 8

H 2W LCN = 9 (LCNs 8 & 9 are 2-way SVC)

L OUT LCN = 10

H OUT LCN = 12 (LCNs 10-12 are outgoing SVC)

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 SVC.

If PVCs, incoming SVCs and two-way SVCs are not desired, LCN 1 is available for outgoing SVCs.

1.2 Recent Change View

The corresponding Recent Change view for this form is 23.40.

2. FORM ENTRIES - 5901-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 (*) PKT TN

Description: Enter the packet telephone number if this individual port is to be configured for X.25 service.
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:

A PKT TN must be entered if a PKT MLHG/TERM NBR and a H PVC LCN are entered. A PKT TN and a PKT MLHG/TERM NBR both can be entered if an individual PKT TN is defined for the MLHG member.

The first three digits of this TN must be defined on the NOC form (5501 Record). The packet TN defined on this XAT form must be unique, that is, it cannot be defined on any other XAT, DSL, DSLUSR, LINE, MLHLN, PSMTN, ACQS, AMLBDSL, MLHG, SHTN, MULTITN or MTNDR form.

If PKT TN is defined on this form and PKT MLHG and TERM NBR are not entered, then the LCC and RAX must be defined on the LCC form with a corresponding CLASS OF SERVICE of "XAT", a TERMINATING TREATMENT of "INDIV", and LINE SCREENING set to "N".

For 5E10 and later, when PKT TN(s) on the PSPVC form match PKT TN(s) on XAT form(s), the OE must be

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specified.

For 5E12 and later, PKT TN or PKT TN and PKT MLHG/TERM NBR combinations on different XAT forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit PKT TNs on the XAT 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, the 7-digit PKT TN(s) must be entered as a 10-digit PKT TN(s).

For 5E12 and later, PKT TN and LNR HNT TN on the XAT form must be unique within the same XAT form.

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

2.3 (*) PKT MLHG

Description: Enter the packet MLHG number. A combination of XAT channels (possibly from more than one T1 facility) and BRI packet switching B-channels can coexist in the same MLHG.

Required Field (if a PKT TN is not entered).
Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: Blank or 1 - 8191

Data Rules:

The PKT MLHG number entered on this XAT form must be defined on a corresponding MLHG form (5110 Record). This corresponding MLHG form must have a LISTED TN entered. This matching MLHG form also must have an MLHG FEATURE entered which has been defined on the MLHGFD form (5604 Record) with a HUNT TYPE of "PSUCD".

For 5E8 and later, PKT MLHG may be the same as PPB1 MLHG and PPB2 MLHG on the DSL form and DPKT MLHG (Non-Modem Pooling) and ODB MLHG on the DSLUSR form. The corresponding PKT TERM must be different.

If PKT MLHG and TERM NBR are not entered, HUNT DEACT must be "N", and the following fields must not be entered: HUNT NOTIF, BUSY LIMIT, and LNR HNT TN.

If PKT MLHG/TERM NBR(s) are entered, then the Line Class Code and Rate Center combination (LCC/RAX) must be defined on the LCC form with a corresponding CLASS OF SERVICE of "XAT", a TERMINATING TREATMENT of "INDIV" or "MLHG", and LINE SCREENING of "N".

For 5E10 and later, when PKT MLHG is entered, OE must be entered.

2.4 (*) TERM NBR

Description: Enter the packet MLHG member number. A TERM NBR must be specified if a PKT MLHG has been defined.

Required Field (if a PKT TN has not been entered).

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Valid Entries: 1 - 2015

Data Rules:

If a PKT MLHG and TERM NBR are entered, a DEN must be entered.

2.5 DEN

Description: Enter the Digital Equipment Number representing the SM, DLTU (Digital Line and Trunk Unit), DFI (Digital Facilities Interface) and channel number. Each DEN must be unique.

Software Release: 5E9(2) and earlier
Valid Entries: The DEN is an 8-digit number consisting of:

DIGITAL EQUIPMENT NUMBER

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

Data Rules:

If the channel number is greater than 24, a DLTU TYPE of "DLTU48" must be defined on the EQDU form. There can be a maximum of 160 XATs per SM.

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
AMLBDSL	LCEN[1,3]	ISCN[1,3]	by 2 for each unique AMLBDSL 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 cor-responding 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] ODB ISCN2	by 1 if only ODB ISCN1 is entered.
			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 "TR303"	SM	ISCN[1,3]	by 2 for each TMC PRI ISCN and each TMC NPRI ISCN entry.
			by 3 for each EOC PRI ISCN and each EOC NPRI ISCN entry.
TRUNK	DEN[1,3]	ISCN[1,3]	by 1 for each unique TRUNK form.

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Where TRKCLS is "IFOPER", "IFTERM" or "EDSL"			
XAT	DEN[1,3]	ISCN[1,3]	by 1 for each unique XAT form.

2.6 OE

Description: Enter the Orignating Equipment Number. The OE field is used to specify the originating equipment number (composite equipment number consisting of OETYPE and OEN). Enter one alphabetic character (OETYPE) followed by up to 10 digits (OEN) of the following format:

Software Release: 5E10 and later
Valid Entries:

Valid OE Type Entries

Entry	Definition
D	Digital Trunk Equipment Number for PRI (DEN)
N	Networking Equipment Number (NEN).
U	Software Release 5E16(20 and later. XAT PH Channel Group Member.

If OE is set to "D", this OE 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
Digital Facility Interface	DFI	XX	01 - 10
Digital Channel	DCHAN	XX	01 - 48

If OE is set to "N", this OE Number consists of:

OE Number, Type N - 5E12 and earlier

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Networking Unit - SONET	DNUS	X	0 - 5
Data Group	DG	X	0 - 1
Synchronous Transport Signal number	STS	X	0 - 5
Virtual Tributary	VT	XX	01 - 28
Digital Signal Level 0 channel	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	DNUS	X	0 - 7
Data Group	DG	X	0 - 1
SONET 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
Digital Signal Level 0 channel	DS0	XX	01 - 24

For 5E16(2) and later, if OE is set to "U", 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

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Data Rules:

A maximum of 128 ALCBs (Access Link Control Blocks) can 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

For 5E10 and later:

A maximum of 160 XAT forms can be assigned to a given Switching Module. The Switching module is determined from the first three characters of the OE field on the XAT form.

Type D

When the XAT form(s) has an OE TYPE of "D" and a DEN specified, the DFI(s) that exist on the EQDUP form must have a FAC 0 or FAC 1 EQUIPMENT STATUS of "O" on the EQDUP form.

When the XAT forms have an OE TYPE of "D" and an OE entered, indicating a DEN assignment, the corresponding EQDUP form for this DEN must be defined. The EQDUP key fields: SWITCHING MODULE, DLTU and DFI PACK NUMBER correspond to OE[1,3], OE[4,4] and OE [5,6] respectively, when OE TYPE is "D".

Type N

When XAT form(s) have an OE TYPE of "N" and a NEN specified, there must be a corresponding EQVT form with VT EQSTAT and DS1S EQSTAT both set to "O".

NOTE: For 5E13 and later, the associated EQVT form may be found by matching OE[1,3] with EQVT SM, OE[4] with EQVT DNUS, OE[5] with EQVT DATA GROUP, OE[6] with EQVT STE, OE[7] with EQVT STS, OE[8] with EQVT VT GROUP, and OE[9] with EQVT VT MEMBER.

Type U

When OE is "U":

PKT MLHG, OCU and CSU LOOPBACK, CUGOA, FSA, REV CHARGE "N".

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L OUT LCN and H OUT LCN must be entered.

L IN LCN, H IN LCN, H PVC LCN, L 2W LCN, H 2W LCN, and PBGRP must not be entered.

For 5E16(2) and later, when OE is "U" and a UEN is specified a PSU must exist on the EQPSU form (5741 Record).

When OE is "U", there must be a matching IPINTF fom where PKT TN equals the PKT TN on this form, and the LCN on the IPINTF form must be greater than or equal to the L OUT LCN on the XAT form, and must be less than or equal to the H OUT LCN on the XAT form.

When OE is "U", there must exist a matching IPINTF form where PKT TN equals PKT TN on this form, and SEND PKT SIZE on the XAT form must be greater than or equal to the MTU SIZE on the IPINTF form.

2.7 CHNG PKT TN

Description: This field is used by Recent Change only. No ODA input is required.

2.8 CHNG PKT MLHG

Description: This field is used by Recent Change only. No ODA input is required.

2.9 CHNG TERM NBR

Description: This field is used by Recent Change only. No ODA input is required.

2.10 CHNG DEN

Description: This field is used by Recent Change only. No ODA input is required.

Software Release: 5E9(2) and earlier

2.11 CHNG OE

Description: This field is used by Recent Change only. No ODA input is required.

Software Release: 5E10 and later

MLHG ONLY

The next two fields (Section 2.12 - Section 2.13) apply only to Multi-Line Group members.

2.12 LNR HNT TN

Description: Enter the Linear Hunt TN of a Multi-Line Hunt Group member. This LNR HNT TN serves as a linear entry point to the MLHG. Hunting always begins at the member associated with the called TN; it hunts sequentially through the list of members of the hunt group until either it reaches a non-busy hunt group member, or it reaches the last member and all members were hunt-busy.

If the member TN is on intercept the LNR HNT TN will not be on intercept.

Software Release: 5E8 and later
Valid Entries: 7 digits

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Data Rules:

If LNR HNT TN is entered, the following must be true:

- DEN, PKT MLHG, and TERM NBR must be entered.
- The first three digits must be defined in the OFFICE CODE field on the NOC form.
- For any "PSUCD" MLHG, if LNR HNT TN for member 1 is not entered, no other members can have LNR HNT TN entered.
- LNR HNT TN must be unique within the 5ESS Switch.

For 5E12 and later, if the first 3-digits of the 7- digit LNR HNT TNs on the XAT 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, the 7-digit LNR HNT TN(s) must be entered as a 10-digit LNR HNT TN(s).

For 5E12 and later, when the LNR HNT TNs on the XAT form have an NXX (the first 3 digits of a 7-digit LNR HNT TN) or NPA/NXX combination (the first 6 digits of a 10-digit LNR HNT TN) assigned, the NXX or NPA/NXX must be defined on a NOC form.

2.13 HUNT DEACT

Description: Should the MLHG member be deactivated (marked busy) for hunted calls? A value of "N" indicates the Multi-Line Hunt Group member is active (available) for hunting.

The deactive/active status has no effect on non-hunted calls, calls made to the MLHG member using its individual TN.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PKT MLHG and TERM NBR are not entered, HUNT DEACT must be "N".

2.14 ISCN

Description: Enter the ISCN (Integrated Services Channel Number) representing a shelf, CHL GRP (channel group) and CHL (channel, in multiples of 4 [e.g. 0, 4, 8...]) in the PSU (Packet Switching Unit). This entry represents one of the five shelves in the PSU.

The ISCN Assignment Record (5844 Record) lists all assigned ISCNs.
Valid Entries: The ISCN is a six-digit number consisting of:

ISCN NUMBER			
Equipment		**Format**	**Valid Entries**
Shelf	SHELF	X	0 - 4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	000-127 (0, 4, 8, ...)

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Data Rules:

The SHELF number must be defined on the EQPSU form (5741 Record) where a SHELF SIDE 0/1 EQST has been set to "O" operational) for the same SM (first three digits of DEN on XAT form equals SM on EQPSU form).

The CHL GRP entry represents one of sixteen PH (Protocol Handler) circuit packs on one of the PSU shelves.

The CHL entry represents the PSU PH member number within the PH. The entry must be in multiples of 4.

The DLTU, DFI and ISCN must exist in the same loaded SM as specified by the DEN for this PKT TN or PKT MLHG member.

For 5E9(2) and earlier, an ISCN must be assigned on this form if a DEN has been assigned on this form.

For 5E9(1) - 5E9(2), the first three digits of DEN, the first digit of ISCN, and the second two digits of ISCN must match the SM, PSU SHELF, and GRP, respectively, on a PSUGP form (5949 Record) where PH TYPE is "PH3".

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"

For 5E10 and later, when OE is entered, ISCN must be entered.

For 5E10 and later, when OE is not entered, ISCN cannot be entered.

A PIDB (Peripheral Interface Data Bus) must be defined for the hardware represented by the ISCN. For an (R)ISLU, the PIDB is defined on the EQISLU form (5731 Record) with a PIDB TYPE of "PSU" and a PSU SHELF number equal to the SHELF number assigned on this XAT form. For 5E8 and later, the IDCU PIDB is defined on the EQIDCU form (5846 Record) with a PIDB TYPE of "PSU" and a PSU SHELF number equal to the SHELF number assigned on this XAT form.

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SM/ISCNs assigned on this form must have a corresponding combination of SM, PSU, PSU SHELF and GRP entered on the PSUGP form.

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.

For 5E10 and later, the following data rule is not executed on an SM-2000, because provisioning of nailed-up time slots is not required on an SM-2000. Each Data Interface in a SM can have a maximum of 256 nailed-up time slots 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 applications in the table that follows.

In addition, 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/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.
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.

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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).

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.

2.15 # LCC

Description: Enter a packet Line Class Code. (See the LCC form (5306 Record) for LCC definitions.)
Valid Entries: 1 - 3 characters

Data Rules:

The LCC and RAX assigned on this XAT form must be defined on the LCC form (5306 Record) with a CLASS OF SERVICE of "XAT", a TERMINATING TREATMENT of "INDIV", and LINE SCREENING set to "N".

2.16 # RAX

Description: Enter a packet Rate Area. The Rate Area and LCC determine the DAS (Digit Analysis Selector) and Screening Index used for calls originating from this line and terminating treatment of calls to this line.

Required Field.
Valid Entries:

For 5E14 and earlier: 1-99

For 5E15 and later: 1 - 999

Data Rules:

Since the DAS points to packet switching digit interpreter tables, the LDIT, MLDIT and PDIT tables used by this PKT TN or PKT MLHG member must be packet switching tables (TYPE OF CI CALL is "PSNCI" or "PSCAR").

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).

2.17 CODE RESTRICT

Description: This field represents the Code Restriction used for a packet switching DSL (Digital Subscriber Line) which is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no CODE RESTRICT, or 1 - 125

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2.18 RATE

Description: Enter the XAT Channel Data Rate.

Required Field.
Valid Entries:

5E13 and earlier: 56K, 64K or 64IK
5E14 and later: 56KB, 64KB or 64IK

NOTE: For 5E14 and later, the Data Rate names were updated to be consistent with Recent Change.

Data Rules:

For 5E9(2) and earlier, a RATE must be entered if a DEN has been assigned on this form.

For 5E10 and later, when OE is entered, RATE must be entered.

For 5E10 and later, when OE is not entered, RATE cannot be entered.

For 5E9(2) and earlier the DENs assigned on this XAT form and defined on the EQDUP form, only the following combinations of DFI MODEs on the EQDUP form and RATEs from the XAT form are allowed:

- When the XAT RATE is "56K", the EQDUP DFI MODE must be "D4", "FEB7", "D464", "FE64", "64K" or "FE8Z";
- when the XAT RATE is "64IK", the EQDUP DFI MODE must be "D464", "FE64", "64K" or "FE8Z";
- when the XAT RATE is "64K", the EQDUP DFI MODE must be "64K" or "FE8Z".

RATE must be "56K" when OCU LOOPBACK or CSU LOOPBACK is "Y".

For 5E10 and later, when the XAT forms have DEN(s) assigned on the corresponding EQDUP form, only the following XAT RATE/EQDUP DFI MODE combinations are valid: When the XAT RATE is "56K", the EQDUP DFI MODE must be "D4", "FEB7", "D464", "FE64 70, "64K" or "FE8Z". When the XAT RATE is "64IK", the EQDUP DFI MODE must be "D464", "FE64", "64K" or "FE8Z". When the XAT RA TE is "64K", the EQDUP DFI MODE must be "64K" or "FE8Z".Note:

NOTE: The EQDUP key fields SWITCHING MODULE, DLTU and DFI PACK NUMBER correspond to OE[1,3], OE[4,4] and OE [5,6] respectively, when OE TYPE is "D".

For 5E10 and later, when XAT form(s) have an OE TYPE of "N" and a NEN assigned, and XAT RATE is "64K", the ZCS on the associated EQVT form must be "N".

2.19 N2

Description: The N2 value, per CCITT specifications, is the maximum number of attempts made by the CPE device or the PH to successfully transmit a frame at the LAPB (Link Access Procedure B) Level 2. Following N2 failures, the PH attempts to restore the link, which is either a SVC or a PVC. If the PH cannot restore the link, the PH will clear the SVCs and reset the PVCs.

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Valid Entries: 2 - 15

Data Rules:

For 5E9(2) and earlier, N2 must be entered if a DEN has been assigned on this form.

For 5E10 and later, when OE is entered, N2 must be entered.

For 5E10 and later, when OE is not entered, N2 cannot be entered.

2.20 T1

Description: The T1 timer, per CCITT specifications, is the period of time before retransmission of a frame may be initiated at the LAPB Level 2.
Valid Entries: 20 - 200, even numbers only, in tenths of a second.

Data Rules:

For 5E9(2) and earlier, T1 must be entered if a DEN has been assigned on this form.

For 5E10 and later, when OE is entered, T1 must be entered.

For 5E10 and later, when OE is not entered, T1 cannot be entered.

2.21 T3

Description: The T3 timer, per CCITT specifications, is the period of time at which an idle channel is considered to have been in the idle state excessively long. The indication of this situation is passed to the PH to assure that the channel is idle and ready to be set for operation once again. The duration of the T3 timer must be greater than the duration of the T1 timer to ensure that retransmission efforts are not aborted.
Valid Entries: 3 - 30 in full seconds

Data Rules:

For 5E9(2) and earlier, T3 must be entered if a DEN has been assigned on this form.

For 5E10 and later, when OE is entered, T3 must be entered.

For 5E10 and later, when OE is not entered, T3 cannot be entered.

The duration entered in the T3 field must be greater than one-tenth the duration entered in the T1 field.

2.22 WNDSZ

Description: The maximum quantity of sequentially numbered LAPB Level 2 I-frames (Information) that the CPE device or PH can have unacknowledged at any time. This field is "I frames k" in CCITT terminology.
Valid Entries: 1 - 7

Data Rules:

For 5E9(2) and earlier, WNDSZ must be entered if a DEN has been assigned on this form.

For 5E10 and later, when OE is entered, WNDZ must be entered.

For 5E10 and later, when OE is not entered, WNDZ cannot be entered.

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2.23 SUST

Description: Will all packet terminations to this line be denied?
Default: N
Valid Entries: Y, N

Data Rules:

When a PKT MLHG and TERM NBR are entered, SUST must be "N".

2.24 OCU LOOPBACK

Description: Is Loopback testing allowed at the OCU (Office Channel Unit)?
Default: Y
Valid Entries: Y, N

Data Rules:

If "Y" is entered, RATE must be "56K".

For 5E10 and later, when OE is not entered, OCU LOOPBACK must be "Y".

2.25 CSU LOOPBACK

Description: Is Loopback testing allowed at the CSU (Channel Service Unit)?
Default: Y
Valid Entries: Y, N

Data Rules:

If "Y" is entered, RATE must be "56K".

For 5E10 and later, when OE is not entered, CSU LOOPBACK must be "Y".

2.26 X25VER

Description: Enter the X.25 CCITT version supported for this CPE.
Default: 1984
Valid Entries: 1980, 1984

Data Rules:

For 5E9(2) and earlier, leave this field blank if DEN has not been entered.

For 5E10 and later, when OE is not entered, X25VER must be "1984".

2.27 ICB

Description: Will the ICB (Incoming Calls Barred) option be activated? ICB prevents users from receiving incoming virtual calls. The user may still originate outgoing virtual calls.
Default: N
Valid Entries: Y, N

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Data Rules:

Enter "N" if PKT MLHG and TERM NBR have been entered.

For 5E10 and later, when OE is not entered, ICB must be "N".

2.28 OCB

Description: Will the OCB (Outgoing Calls Barred) feature be activated? OCB prevents the user from originating outgoing virtual calls. The user may still receive incoming virtual calls.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, OCB must be "N".

2.29 BILL TN

Description: Enter a TN to be billed if the TN is is different from the PKT TN associated with this port.
Valid Entries: A 7-digit TN (if calls are to be billed to a TN within the local office); a 10-digit TN (if calls are to be billed to a TN outside the local office)

Valid 7 and 10-digit numbers can be the following formats:

- NXXXXXX - Where NXX is a valid office code defined in the OFFICE CODE field on a NOC form.
- NPANXXXXXX - Any 10-digit number; however, expected values are NPA and NXX codes.
- ZXXXXXX - Where Z is 0 or 1 (normally used for OUTWATS billing purposes). The first three digits must be defined in the OFFICE CODE field on a NOC form.

Data Rules:

If the BILL TN field is left blank and a DEN is assigned, the PKT TN will be used as the BILL TN.

For 5E10 and later, when OE is not entered, BILL TN cannot be entered.

For 5E12 and later, when the BILL TN(s) on the XAT form have an NXX value (the first 3 digits of a 7-digit BILL TN) or an NPA/NXX combination (the first 6-digits of a 10-digit BILL TN) without a matching OFFICE CODE or NPA/OFFICE CODE defined on the NOC form of this office, is valid only if you allow billing to NXX codes served by other offices or if the first digit of the NXX code is 0 or 1 designating OUTWATS billing.

2.30 RMK

Description: Remarks consisting of alphanumeric, blank or special characters except double quotes.
Valid Entries: 1 - 16 characters

3. FORM ENTRIES - 5902-2 RECORD

3.1 H PVC LCN

Description: Enter the highest LCN that can be assigned to a PVC. For 5E9(2) and earlier, at least one LCN

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field must be entered if a DEN is assigned. For 5E10 and later, when OE is entered, H PVC LCN, or L IN LCN, or H IN LCN, or L 2W LCN, or H 2W LCN, or L OUT LCN, or H OUT LCN must be entered.
Valid Entries: 1 - 127

Data Rules:

If H PVC LCN is entered, there must be a corresponding PSPVC form (5923 Record) with an LCN value less than or equal to this H PVC LCN value. If a PSPVC form is not entered, ODA will default the corresponding attribute values for the data.

For 5E10 and later, when OE is not entered, H PVC LCN cannot be entered.

3.2 L IN LCN

Description: Enter the Lowest Incoming LCN.
Valid Entries: 1 - 127

Data Rules:

If H PVC LCN is entered and this field is entered, the L IN LCN value must be one greater than the H PVC LCN value. If an entry is made in this field and H PVC LCN is not entered, the entry must be 1.

For 5E8 and later, if PKT MLHG and TERM NBR are entered, L IN LCN or L 2W LCN must be entered.

For 5E10 and later, when OE is not entered, L IN LCN cannot be entered.

3.3 H IN LCN

Description: Enter the Highest Incoming Logical Channel Number. The L IN LCN and H IN LCN fields must both be entered in order to define a range of incoming LCNs. If one is left blank, they must both be left blank.
Valid Entries: 1 - 127

Data Rules:

The value entered in this field must be greater than or equal to the value entered in the L IN LCN field.

For 5E10 and later, when OE is not entered, H IN LCN cannot be entered.

3.4 L 2W LCN

Description: Enter the Lowest Two-Way Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If this field and the H IN LCN fields are entered, then the value entered in this field must be greater than the value entered in the H IN LCN field.

If this field is entered, H IN LCN is blank and H PVC LCN is entered. The entry in this field must be greater than the H PVC LCN. Also, if this field is blank, H 2W LCN must be blank. However, if either field is entered, both must be entered.

For 5E8 and later, if PKT MLHG and TERM NBR are entered, L IN LCN or L 2W LCN must be entered.

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For 5E10 and later, when OE is not entered, L 2W LCN cannot be entered.

3.5 H 2W LCN

Description: Enter the Highest Two-way Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If the L 2W LCN field is entered, then the H 2W 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 L 2W LCN field.

For 5E10 and later, when OE is not entered, H 2W LCN cannot be entered.

3.6 L OUT LCN

Description: Enter the Lowest Outgoing Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If either L OUT LCN or H OUT LC is not entered, they both must not be entered. If one is entered, then both must be entered.

If this field and the H 2W LCN fields are entered, then the value entered in this field must be greater than the value entered in the H 2W LCN field.

The value in this field must be greater than the previously entered H PVC LCN value if L IN LCN and L 2W LCN are blank. Also, L OUT LCN must be greater than H IN LCN if H IN LCN is entered.

For 5E10 and later, when OE is not entered, L OUT LCN cannot be entered.

3.7 H OUT LCN

Description: Enter the Highest Outgoing Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

If the L OUT LCN field is entered, then the H OUT LCN field must be entered in order to define a range of Outgoing LCNs. If this field is not entered, L OUT LCN must not be entered.

The value entered in this field must be greater than or equal to the value entered in the L OUT LCN field.

For 5E10 and later, when OE is not entered, H OUT LCN cannot be entered.

3.8 BUSY LIMIT

Description: Enter the busy limit for this MLHG terminal. The busy limit represents the maximum number of concurrent incoming virtual calls an MLHG member may receive before the member is marked busy for hunting purposes. Calls to non-hunt DNs are included in the incoming call count but are not restricted by the busy limit.

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Software Release: 5E8 and later
Valid Entries: 1 - 127

Data Rules:

This parameter is applicable to MLHG members only. If PKT MLHG and TERM NBR are not entered, BUSY LIMIT must not be entered.

If PKT MLHG and TERM NBR are entered, BUSY LIMIT should be set according to the rules that follow. When BUSY LIMIT is not entered, the maximum value for the applicable rule will be assigned.

- If the XAT is on a PH3, BUSY LIMIT must be less than or equal to the sum of IN LCNs plus 2W LCNs.

3.9 HUNT NOTIF

Description: Indicate the Hunting Notification procedure to be used for processing an X.25 CLAMN (Called Line Address Modified Notification) facility and a modified address for this Multi-Line Hunt Group member.

The X.25 CLAMN feature allows the terminating CPE or switch to return the X.25 CLAMN facility, along with a modified Called Address field containing the non-hunt DN for the end-point, to the calling party. When a call is offered to a packet-mode hunt terminal as part of hunting, CLAMN signaling is returned to the calling party to indicate that a hunt was performed.

If HUNT NOTIF is blank, the CLAMN feature is not applicable.

Software Release: 5E8 and later
Valid Entries:

Valid HUNT NOTIF Entries

Entry	Definition
YES	The switch initiates CLAMN procedures when the terminating DTE does not. If neither the CLAMN nor the modified address is present, the switch will insert the CLAMN and non-hunt telephone number into the X.25 call request packet and allow the X.25 call to proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
NO	The switch does not initiate CLAMN procedures. If neither the CLAMN facility nor the modified address is present, or if both are present, the X.25 call will proceed. When the terminating DTE uses CLAMN procedures, the switch screens the CLAMN usage according to BELLCORE defined rules.
OLD	The X.25 CLAMN procedure that existed prior to the 5E8 Software Release is used.

Data Rules:

HUNT NOTIF is applicable to MLHG members only. If PKT MLHG and TERM NBR are not entered, HUNT NOTIF must not be entered.

If PKT MLHG and TERM NBR are entered, HUNT NOTIF must be entered.

If HUNT NOTIF is "YES", TN must be entered.

3.10 PMDR GRP

Description: Enter a Packet MDR Group name for associated with a XAT. The PMDR is used to generate Message Detail Recording records for packet data calls.

Software Release: 5E7 and later

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Valid Entries: 1 - 8 characters

Data Rules:

For 5E9(2) and earlier, if DEN is not entered, PMDR GRP must not be entered. PMDR GRP and PMDR ACT must both be entered or neither can be entered.

For 5E10 and later, when OE is not entered, PMDR GRP cannot be entered.

3.11 PMDR ACT

Description: Is the Packet MDR Group associated with the XAT activated?

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

IF PMDR GRP is not entered or if DEN is not entered, PMDR ACT must not be entered. PMDR ACT must be entered when PMDR GRP is entered.

For 5E10 and later, when OE is not entered, PMDR ACT cannot be entered.

3.12 SEND TPC

Description: Enter the Throughput Class of a virtual call from the terminal to the switch.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600, or 19200.

Data Rules:

For 5E10 and later, when OE is not entered, SEND TPC must be 9600.

3.13 SEND PKTSZ

Description: Enter the maximum number of bytes of data that can be sent in a packet (excluding control type information).
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

If the FCPN field is "N", this field must be 128.

For 5E10 and later, when OE is not entered, SEND PKTSZ must be 128.

3.14 SEND PKTWD

Description: Enter the number of data packets that the CPE device can have unconfirmed on a sending basis at any time.
Default: 2
Valid Entries: 1 - 7

Data Rules:

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For 5E9(1) and later, if SEND PKTWD is not 2, FCPN must be "Y".

For 5E10 and later, when OE is not entered, SEND PKTWD must be 2.

3.15 SEND MCT

Description: Enter the maximum combined throughput in kilobits per second for the sending direction. When the sum of the sending throughput of virtual calls exceeds the SEND MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

Data Rules:

For 5E10 and later, when OE is not entered, SEND MCT can not be entered.

3.16 RCV TPC

Description: Enter the Throughput Class of a virtual call to the terminal from the switch.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600, or 19200.

Data Rules:

For 5E10 and later, when OE is not entered, RCV TPC must be 9600.

3.17 RCV PKTSZ

Description: Enter the maximum number of bytes of data that can be received in a packet (excluding control type information).
Default: 128
Valid Entries: 128 or 256 bytes

Data Rules:

Enter 128 when FCPN is "N". If the FCPN field is "N", this field must be 128.

For 5E10 and later, when OE is not entered, RCV PKTSZ must be 128.

3.18 RCV PKTWD

Description: Enter the number of data packets that the CPE device can have unconfirmed on a receiving basis at any time.
Default: 2
Valid Entries: 1 - 7

Data Rules:

For 5E9(1) and later, if RCV PKTWD is not 2, FCPN must be "Y".

For 5E10 and later, when OE is not entered, RCV PKTWD must be 2.

3.19 RCV MCT

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Description: Enter the maximum combined throughput in kilobits per second for the receiving direction. When the sum of the receiving throughput of virtual calls exceeds the RCV MCT (Maximum Combined Throughput), the user is considered busy.

Software Release: 5E8 and later
Valid Entries: 64 - 128 (kbps), in increments of 8

Data Rules:

For 5E10 and later, when OE is not entered, RCV MCT cannot be entered.

3.20 ICP

Description: Will terminating calls be routed to regular intercept?
Default: N
Valid Entries: Y, N

Data Rules:

For 5E9(2) and earlier, if "N" is entered, a DEN must be entered. If "Y" is entered, a PKT TN or PKT MLHG/TERM must be entered. However, when PKT MLHG/TERM is entered when ICP is "Y", a DEN also must be entered.

For 5E9(2) and earlier, DEN does not have to be entered if ICP is "Y" and PKT TN is entered. If the DEN is unassigned in this case (ICP is "Y" and PKT TN assigned), all fields on this form should be left blank or entered with their corresponding default values.

For 5E10 and later, when ICP is "N", OE must be entered.

For 5E10 and later, when ICP is "Y", PKT TN or PKT MLHG/TERM NBR and OE must be entered.

3.21 PB GRP

Description: Enter the number associated with the Packet Switching Data Business Group Service. This feature enables the customer to set up and administer intra-switch PBGs (Packet Business Groups) by assigning a PBG number to each X.25 termination to distinguish between intra-PBG and other calls on the AMA record. Do not enter a value if this user is not a member of a PBG.
Valid Entries: 1 - 100

Data Rules:

If a PB GRP is entered, a PKT TN must be entered.

For 5E10 and later, when OE is not entered, PB GRP cannot be entered.

An MLHG will be assigned to a PBG by associating the PBG with an MLHG on an MLHG form (5110 Record). The DSLUSR form (5908 Record) or XAT form should only be used to assign a PBG if the MLHG member has a known member TN.

3.22 REV CHARGE

Description: Will the called CPE accept the charge for a call from a PH?
Default: N

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Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, REV CHARGE MUST be "N".

3.23 LCP

Description: Will Local Charge Prevention be activated? When LCP is "Y" all the X.25 outgoing calls from this user will be Reverse Charged and any X.25 incoming calls that contain Reverse Charge will be cleared.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

LCP must be "N" when DEN is blank.

LCP is not allowed with Reverse Charge. If LCP is "Y" then REV CHARGE must be "N".

For 5E10 and later, when OE is not entered, LCP must be "N".

3.24 FCPN

Description: Will FCPN (Flow Control Parameter Negotiation) be activated? The transmission of data between a CPE device and a PH is controlled separately for each direction and is controlled by the receiver of the data. This is, in CCITT nomenclature, referred to as flow control. An additional aspect of flow control is the ability of the PH to limit the rate at which it accepts packets when it recognizes network congestion. FCPN allows the PH and the CPE device to negotiate the Window Size (2 or 3) and the Packet Size (128 or 256 bytes) on a per-call basis.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, FCPN must be "N".

3.25 TPCN

Description: Will TPCN (Throughput Class Negotiation) be activated? TCPN allows the sending and receiving entities to negotiate the bits per second to be transmitted in either direction on a per-call basis. Both the sending and receiving party must subscribe to this service for the negotiation to transpire.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, FCPN must be "N".

3.26 FSA

Description: Will the FSA (Fast Select Acceptance) feature be activated? FSA allows a CPE device to receive

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up to 128 bytes of user data with call setup and clearing packets.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, FSA must be "N".

3.27 IA

Description: Will the ISDN IA (Intercom Addressing) be activated? IA permits the ISDN user to access other users on the 5ESS Switch with a 4-digit or 7-digit number.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E10 and later, when OE is not entered, IA must be "N".

3.28 IECP DNIC

Description: Enter a 4-digit DNIC (Data Network ID Code) for Inter-Exchange Carrier Pre-select.
Valid Entries: 1 - 9999

Data Rules:

This entry must be defined in the DNIC field on a PSDNICRI form (5921 Record).

For 5E10 and later, when OE is not entered, IECP DNIC cannot be entered.

4. FORM ENTRIES - 5902-3 RECORD

4.1 CUGPX

Description: Enter the Preferential Customer CUG (Closed User Group) Index.
Valid Entries: 0 - 99

Data Rules:

CUGPX must be entered if CUGOA is "Y" or CUGIA is "Y" and X25VER is "1980".

This CUGPX entry must equal the CUG IDX field on a PSCUG form (5924 Record) where the PKT MLHG and PKT TERM entries on PSCUG form equal the the PKT MLHG and TERM NBR (if entered) on this XAT form.

Also, this CUGPX entry must equal the CUG IDX field on a PSCUG form where the PKT TN entry on the PSCUG form equals the PKT TN (if entered) on this XAT form.

If the PKT TN or PKT MLHG/TERM NBR assigned on this XAT form equals the PKT TN or PKT MLHG/PKT TERM on the PSCUG form, this CUGPX field should be entered and CUGOA and CUGIA have to be set to "Y".

For 5E10 and later, when OE is not entered, CUGPX cannot be entered.

4.2 CUGOA

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Description: Will the CUG Outgoing Access indicator be activated? CUGOA permits CUG members to access CPE devices that do not belong to a CUG or CPE devices that belong to a CUG with Incoming Access.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGOA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

For 5E10 and later, when OE is not entered, CUGOA must be "N".

4.3 CUGIA

Description: Will the CUG Incoming Access indicator be activated? CUGIA permits CUG members to access CPE devices that do not belong to a CUG or CPE devices that belong to a CUG with Outgoing Access.
Default: N
Valid Entries: Y, N

Data Rules:

If CUGIA is "Y", the corresponding PSCUG form (5924A Record) must be defined with the PKT TN or PKT MLHG/PKT TERMs equal to the TNs or MLHG/TERMs of these Packet Services, respectively.

For 5E10 and later, when OE is not entered, CUGIA must be "N".

4.4 CUGHX

Description: This field is used by only Recent Change to display the highest used CUG index. It is a display only field. No ODA input is required. For more information concerning Closed User Groups see Division 2, Section 1AL.

```
xat                                5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5909-1/2/3)     X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

(*)1. PKT TN    ___________         PKT NEW TN ___________       25. OCU LOOPBACK Y
(*)2. PKT MLHG _____           14. ISCN       _______           26. CSU LOOPBACK Y
(*)3. TERM NBR _____          #15. LCC        ___
   4. OE       _ ___________ #16. RAX        __
     CHANGE FIELDS            17. RATE       _____
      CHNG PKT TN   ___       18. N2         __
      CHNG PKT MLHG ___       19. T1         ___
      CHNG TERM NBR ___       20. T3         __
      CHNG OE       ___       21. WNDSZ      _
         MLHG ONLY            22. SUST       N
  11. LNR HNT TN ___________  23. BILL TN    ___________
  12. HUNT DEACT N            24. RMK        ____________________
```

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```
xat                                5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5909-1/2/3)     X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

27. X25VER     1984    39. PMD GRP    _________    51. REV CHARGE N
28. ICB        N       40. PMDR ACT   _            52. LCP        N
29. OCB        N       41. SEND TPC   9600         53. FCPN       N
30. H PVC LCN  ___     42. SEND PKTSZ 128          54. TPCN       N
31. L IN LCN   ___     43. SEND PKTWD 2            55. FSA        N
32. H IN LCN   ___     44. SEND MCT   ___          56. IA         N
33. L 2W LCN   ___     45. RCV TPC    9600         57. IECP DNIC  ____
34. H 2W LCN   ___     46. RCV PKTSZ  128
35. L OUT LCN  ___     47. RCV PKTWD  2            CLOSED USER GROUP
36. H OUT LCN  ___     48. RCV MCT    ___          58. CUGPX __
37. BUSY LIMIT ___     49. ICP        N            59. CUGOA N
38. HUNT NOTIF ___     50. PB GRP     ___          60. CUGIA N
```

Figure 1 SAMPLE XAT FORM 5E12 THROUGH 5E14 SOFTWARE RELEASES

```
xat                                5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5909)           X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

(*)1. PKT TN   ___________            PKT NEW TN ___________
(*)2. PKT MLHG _____              14. ISCN       _______
(*)3. TERM NBR _____             #15. LCC        ___
   4. OE       _ _____________   #16. RAX        ___
     CHANGE FIELDS                17. RATE       _____
      CHNG PKT TN   ___           18. N2         __
      CHNG PKT MLHG ___           19. T1         ___
      CHNG TERM NBR ___           20. T3         __
      CHNG OE       ___           21. WNDSZ      _
         MLHG ONLY                22. SUST       N
  11. LNR HNT TN ___________      23. BILL TN    ___________
  12. HUNT DEACT N                24. RMK        ____________________
```

```
xat                                5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5909)           X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

25. OCU LOOPBACK Y
26. CSU LOOPBACK Y
```

```
xat                                5ESS Switch           _
```

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```
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5909)          X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

27. X25VER     1984    39. PMDR GRP   _________    51. REV CHARGE N
28. ICB        N       40. PMDR ACT   _            52. LCP         N
29. OCB        N       41. SEND TPC   9600         53. FCPN        N
30. H PVC LCN  ___     42. SEND PKTSZ 128          54. TPCN        N
31. L IN LCN   ___     43. SEND PKTWD 2            55. FSA         N
32. H IN LCN   ___     44. SEND MCT   ___          56. IA          N
33. L 2W LCN   ___     45. RCV TPC    9600         57. IECP DNIC  ____
34. H 2W LCN   ___     46. RCV PKTSZ  128
35. L OUT LCN  ___     47. RCV PKTWD  2            CLOSED USER GROUP
36. H OUT LCN  ___     48. RCV MCT    ___          58. CUGPX __
37. BUSY LIMIT ___     49. ICP        N            59. CUGOA N
38. HUNT NOTIF ___     50. PB GRP     ___          60. CUGIA N
```

Figure 2 SAMPLE XAT FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```
xat                                5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5909)          X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

(*)1. PKT TN   __________            PKT NEW TN    __________
(*)2. PKT MLHG _____              14. ISCN          _______
(*)3. TERM NBR _____             #15. LCC           ___
   4. OE       _ _____________   #16. RAX           ___
     CHANGE FIELDS                17. CODE RESTRICT ___
      CHNG PKT TN   ___           18. RATE          _____
      CHNG PKT MLHG ___           19. N2            __
      CHNG TERM NBR ___           20. T1            ___
      CHNG OE       ___           21. T3            __
         MLHG ONLY                22. WNDSZ         _
  11. LNR HNT TN __________       23. SUST          N
  12. HUNT DEACT N                24. BILL TN       __________
```

```
xat                                5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5909)          X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT

25. RMK ___________________    26. OCU LOOPBACK Y
                               27. CSU LOOPBACK Y
```

```
xat                                5ESS Switch           _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5909)          X.25 (XAT) PACKET SWITCHING CHANNEL ASSIGNMENT
```

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```
28. X25VER     1984    40. PMDR GRP   _________    52. REV CHARGE N
29. ICB        N       41. PMDR ACT   _            53. LCP         N
30. OCB        N       42. SEND TPC   9600         54. FCPN        N
31. H PVC LCN  ___     43. SEND PKTSZ 128          55. TPCN        N
32. L IN LCN   ___     44. SEND PKTWD 2            56. FSA         N
33. H IN LCN   ___     45. SEND MCT   ___          57. IA          N
34. L 2W LCN   ___     46. RCV TPC    9600         58. IECP DNIC   ___
35. H 2W LCN   ___     47. RCV PKTSZ  128
36. L OUT LCN  ___     48. RCV PKTWD  2            CLOSED USER GROUP
37. H OUT LCN  ___     49. RCV MCT    ___          59. CUGPX __
38. BUSY LIMIT ___     50. ICP        N            60. CUGOA N
39. HUNT NOTIF ___     51. PB GRP     ___          61. CUGIA N
```

Figure 3 SAMPLE XAT FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 1K: 5908A-1/2 RECORD
PPB/USER RECORD
5908B RECORD
DSL USER RECORD

1. GENERAL

The 5908A and 5908B Records are output-only records that list all DSL users in the office.

The 5908A Record, available in the 5E5 through 5E8 Software Releases, was replaced by the 5908A-1 and 5908A-2 Records for 5E9(1) and later. The data on these records is sorted by Office Equipment number.

The 5908B Record is available with 5E9(1) and later Software Releases and is sorted by USPID (User Service Profile Identifier).

2. RECORD ENTRIES - 5908A-1

2.1 OE

Description: This field is comprised of an equipment type and number for the ISLU, RISLU, or IDCU LCEN (Line Card Equipment Number) of the DSL. For a detailed description of this field, see the DSL OE field on the DSL form (5907 Record).

2.2 DSL CLS

Description: This field specifies the DSL class as a single user, multiple users under the AT&T custom protocol, or multiple users under the Bellcore Standard protocol. Its values are "PP" for custom Point-to-Point, "MP" for custom Multipoint, and "STD" for the Bellcore compliant Standard multipoint.

2.3 RSTR MP

Description: Is the Multipoint DSL restricted to a single active user ("Y" or "N")?

2.4 MTERM

Description: This field reports the maximum number of active users on the DSL, regardless of the quantity of active users indicated in the ACT USR fields on the DSLUSR forms associated with the DSL, that will simultaneously receive services. Users are handled on a "first plugged in", "first serviced" basis.

2.5 CKT TN or MLHG/TERM

Description: If the DSL user has a Circuit Telephone Number or is a member of a Circuit Multi-Line Hunt Group, the Circuit TN or the MLHG and terminal number are reported here.

2.6 DPKT TN or MLHG/TERM

Description: If the DSL user has a Packet Telephone Number or is a member of a Packet Multi-Line Hunt Group, the Packet TN or the MLHG and terminal number are reported here.

2.7 ODB TN or MLHG/TERM

Description: If the DSL user has an ODB (On Demand B-channel) Telephone Number or is a member of an

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ODB Multi-Line Hunt Group, the ODB TN or the MLHG and terminal number are reported here.

2.8 CKT MLHG TN

Description: If the DSL user has a Circuit Multi-Line Hunt Group Telephone Number, it is reported here.

2.9 DPKT MLHG TN

Description: If the DSL user has a Packet Multi-Line Hunt Group Telephone Number, it is reported here.

2.10 ODB MLHG TN

Description: If the DSL user has an ODB Multi-Line Hunt Group Telephone Number, it is reported here.

2.11 ACT USR

Description: Is the user an active user on the DSL ("Y" or "N")?

2.12 PPB1 USR

Description: Is Permanent Packet B1 associated with this user ("Y" or "N")?

2.13 PPB2 USR

Description: Is Permanent Packet B2 associated with this user ("Y" or "N")?

2.14 AGI

Description: The AGI (Associated Group Indicator) designates the group to which a Demand B-channel user is assigned. When users of the same BRI are assigned the same AGI, they are treated as one logical Demand B-channel user. AGI applies only to Standard BRIs.

2.15 USPID

Description: The USPID (User Service Profile Identifier) is the provisioned part of the SPID, which identifies a terminal to the switch during initialization. It uniquely identifies the DSL user in the office.

2.16 SUPPL

Description: This field indicates whether or not supplemental information for this OE appears on the 5908A-2 Record. If SUPPL is blank, no data exists for the OE on the second record.

3. RECORD ENTRIES - 5908A-2

3.1 OE

Description: This field duplicates an OE number that appears on the 5908A-1 Record.

3.2 PPB1 TN

Description: If the DSL has a PPB1 (Permanent Packet B1) Telephone Number, the PPB1 TN is reported here.

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3.3 PPB1 MLHG

Description: If the DSL is assigned a PPB1 Multi-Line Hunt Group, the MLHG number appears here and the member number appears in the PPB1 TERM column.

3.4 PPB1 TERM

Description: If the DSL is assigned a PPB1 Multi-Line Hunt Group, the terminal number appears here and the MLHG appears in the PPB1 MLHG column.

3.5 PPB2 TN

Description: If the DSL has a PPB2 (Permanent Packet B2) Telephone Number, the PPB2 TN is reported here.

3.6 PPB2 MLHG

Description: If the DSL is assigned a PPB2 Multi-Line Hunt Group, the MLHG number appears here and the member number appears in the PPB2 TERM column.

3.7 PPB2 TERM

Description: If the DSL is assigned a PPB2 Multi-Line Hunt Group, the terminal number appears here and the MLHG appears in the PPB2 MLHG column.

4. RECORD ENTRIES - 5908B

4.1 USPID

Description: The USPID (User Service Profile Identifier) is the provisioned part of the SPID, which identifies a terminal to the switch during initialization. It uniquely identifies the DSL user in the office.

4.2 OE

Description: This field is comprised of an equipment type and number for the ISLU, RISLU, or IDCU LCEN (Line Card Equipment Number) of the DSL. For a detailed description of this field, see the DSL OE field on the DSL form (5907 Record).

4.3 DSL CLS

Description: This field specifies the DSL class as a single user, multiple users under the AT&T custom protocol, or multiple users under the Bellcore Standard protocol. Its values are "PP" for custom Point-to-Point, "MP" for custom Multipoint, and "STD" for the Bellcore compliant Standard multipoint.

4.4 RSTR MP

Description: Is the Multipoint DSL restricted to a single active user ("Y" or "N")?

4.5 MTERM

Description: This field reports the maximum number of active users on the DSL, regardless of the quantity of active users indicated in the ACT USR fields on the DSLUSR forms associated with the DSL, that will

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simultaneously receive services. Users are handled on a "first plugged in", "first serviced" basis.

4.6 CKT TN or MLHG/TERM

Description: If the DSL user has a Circuit Telephone Number or is a member of a Circuit Multi-Line Hunt Group, the Circuit TN or the MLHG and terminal number are reported here.

4.7 DPKT TN or MLHG/TERM

Description: If the DSL user has a Packet Telephone Number or is a member of a Packet Multi-Line Hunt Group, the Packet TN or the MLHG and terminal number are reported here.

4.8 ODB TN or MLHG/TERM

Description: If the DSL user has an ODB (On Demand B-channel) Telephone Number or is a member of an ODB Multi-Line Hunt Group, the ODB TN or the MLHG and terminal number are reported here.

4.9 CKT MLHG TN

Description: If the DSL user has a Circuit Multi-Line Hunt Group Telephone Number, it is reported here.

4.10 DPKT MLHG TN

Description: If the DSL user has a Packet Multi-Line Hunt Group Telephone Number, it is reported here.

4.11 ODB MLHG TN

Description: If the DSL user has an ODB Multi-Line Hunt Group Telephone Number, it is reported here.

4.12 ACT USR

Description: Is the user an active user on the DSL ("Y" or "N")?

4.13 PPB1 USR

Description: Is Permanent Packet B1 associated with this user ("Y" or "N")?

4.14 PPB2 USR

Description: Is Permanent Packet B2 associated with this user ("Y" or "N")?

4.15 AGI

Description: The AGI (Associated Group Indicator) designates the group to which a Demand B-channel user is assigned. When users of the same BRI are assigned the same AGI, they are treated as one logical Demand B-channel user. AGI applies only to Standard BRIs.

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SEC. 1L: 5911A/B Record
REMOTE DIGITAL TEST ACCESS PORT/TN ASSIGNMENT RECORD - RDTAPORT

1. GENERAL

The 5911A and 5911B Records are available with 5E7 and later Software Releases. They are used to set up the data for the RPA (Remote Protocol Access) feature at the Access Switch. The Access Switch is defined as a switch that is maintained by a CSC (Customer Service Center). The CSC is a work center where protocol analysis is done.

RPA allows a craft at a CSC to troubleshoot a customer problem by setting up an RDTA (Remote Digital Test Access) connection on the customer's ISDN BRI (Basic Rate Interface) lines or PRI (Primary Rate Interface) lines, trunks, and packet trunks.

Note that RPA and RDTA can be used interchangeably. Division 2, Section 5F contains a full feature description for the RPA feature.

For each instance of the RDTAPORT form, two records are generated: the 5911A and the 5911B Record. Each record contains the same information; however, the 5911A Record is sorted by the RDTA OE field, and the 5911B is sorted by the CSC ID field.

If an RDTAPORT form is defined for an office, the fields RDTA DAS and RDTA SCRN IDX must be entered on the OFCOPT form (5509 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 22.17.

2. FORM AND RECORD ENTRIES

2.1 * RDTA OE

Description: This is a two segment field comprised of an equipment type and number.

Required Field.

Valid RDTA OE Entries

Entry	Definition
D	Software Release 5E9(2) and later: The RDTA OE is associated with a Digital Trunk Number (DEN) for PRI (Private Rate Interface).
E	Software Release 5E12 and later: The RDTA OE is associated with an AIU ISDN U-Interface (Access Interface Unit).
I	Software Release 5E9(2) and later: The RDTA OE is for a Pseudo BRI associated with (R)ISLU Line Card Equipment Number.
K	Software Release 5E10 and later: The RDTA OE is for a Pseudo BRI associated with ISLU2 Line Card Equipment Number and the number must be an 11-digit equipment number.
N	Software Release 5E10 and later: The RDTA OE is associated with a Networking Equipment Number (NEN).

If RDTA OE is set to "D", the equipment number must consist of:

OE Number, TYPE "D"

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1 - 192

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Digital Line & Trunk Unit	DLTU	X	0 - 5
Digital Facility Interface	DFI	XX	01 - 10
D Channel	DCHAN	XX	01 - 24
			25 - 48

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

OE Number, TYPE "E"			
Equipment		**Format**	**Valid Entries**
Switching Module	SM	XXX	1 - 192
Access Interface Unit	AIU	XXX	000 - 127
Pack	PACK	XX	00 - 19
Circuit	CKT	XX	00 - 35

Data Rules:

If RDTA OE is set to "I", the equipment number must consist of:

OE Number, TYPE "I"			
Equipment		**Format**	**Valid Entries**
Switching Module	SM	XXX	1 - 192
Integrated Services Line Unit	ISLU	X	0 - 7
Line Group Controller	LGC	XX	00 - 15
Line Card	LC	XX	00 - 31

If RDTA OE is set to "K", the equipment number must consist of:

OE Number, TYPE "K" - 5E10 and later			
Equipment		**Format**	**Valid Entries**
Switching Module	SM	XXX	1 - 192
Integrated Services Line Unit	ISLU	XX	00 - 42
Line Group Controller	LGC	XX	00 - 15
Line Board	LBD	X	0 - 7
Line Circuit	LCKT	XX	00 - 07

IF RDTA OE is set to "N", the equipment number must consist of:

OE Number, TYPE "N" - 5E10 - 5E12			
Equipment		**Format**	**Valid Entries**
Switching Module	SM	XXX	1 - 192
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
Digital Signal Level 0 Channel	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 channel	DS0	XX	01-24

The Pseudo BRI OE must be defined on an ISLULC form (5942 Record) with an "O" in the EQST field and a TYPE of "TLC" "ULC", "PULC" or "AULC".

The Pseudo BRI OE must be unique and must not appear on another RDTAPORT form, a DSL form (5907

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Record), an OSPSDSL form (5411 Record) or a DSLAP form (5962 Record).

For 5E9(2) and earlier, if RDTA OE TYPE is "D" then PRI TN must be entered. Also, D CHAN TN, B1 CHAN TN and B2 CHAN TN must not be entered.

If RDTA OE TYPE is "I", "K", or "E", then D CHAN TN, B1 CHAN TN and B2 CHAN TN must all be entered and PRI TN must be blank.

The PRI OE number must be defined on a TRUNK form (5204 Record) with the field BRCS set to "N". The corresponding TKGRP form (5202 Record) must have the field RDTA GRP set to "Y".

For 5E10 and later, when RDTA OE TYPE is "D", the last two digits of RDTA OE cannot be 24 or 48.

For 5E10 and later, when RDTA OE TYPE is "N", the last two digits of RDTA OE cannot be 24.

For 5E10 and later, when RDTA OE TYPE is "D" or "N", D CHAN TN, B1 CHAN TN and B2 CHAN TN cannot be entered.

For 5E10 and later, when RDTA OE TYPE is "D" or "N", PRI TN must be entered.

For 5E10 and later, when RDTAPORT forms are defined with RDTA OE TYPE set to "D" or "N", the RDTA OE NUMBER must be defined on a TRUNK form as either DEN or NEN respectively. The corresponding TKGRP form must have RDTA GRP set to "Y".

For 5E12 and later, when RDTA OE TYPE is "E", an EQAIUP form must be defined as SM/AIU/APPL PACK NUM with TYPE set to "AIULP" or "AIURPLP.

2.2 # CSC ID

Description: The Customer Service Center ID where the RPA test equipment is located.

Required Field.
Valid Entries: 1 - 8 characters

2.3 PAIR

Description: Enter the paired number for an RPA facility. Pairing allows the craft to add distinct paired numbers to sets of BRIs or PRIs for easy identification on printed office records. From 1 to 24 pairs may be defined. No entry means that the output facility does not have a paired number assigned.
Valid Entries: 1 - 24

PSEUDO BRI

2.4 D CHAN TN

Description: Enter the TN associated with the D channel of the Pseudo BRI port. The TN must be unique within the 5ESS Switch.
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:

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The first three digits of the D CHAN TN must be defined in the OFFICE CODE field on the NOC form (5501 Record).

For 5E12 and later, if the first 3 digits of the 7-digit D CHAN TNs on the RDTAPORT 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, the 7-digit D CHAN TN(s) must be entered as a 10-digit TN(s).

For 5E12 and later, the D CHAN TN, B1 CHAN TN, B2 CHAN TN, and PRI TN on the RDTAPORT form must be unique.

For 5E12 and later, 10-digit D CHAN TNs, B1 CHAN TNs, B2 CHAN TNs and/or PRI TNs defined on a RDTAPORT form must have an NPA/NXX (the first six digits of the TN) that is defined as an NPA/OFFICE CODE on a NOC form.

For 5E12 and later, the 7-digit D CHAN TNs, B1 CHAN TNs, B2 CHAN TNs and/or PRI TNs defined on a RDTAPORT form must have an NXX (the first three digits of the TN) that is an OFFICE CODE defined on a NOC form.

2.5 B1 CHAN TN

Description: The TN associated with the B1 channel of the Pseudo BRI port. The TN must be unique within the 5ESS Switch.
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:

The first three digits of the B1 CHAN TN must be defined in the OFFICE CODE field on a NOC form.

For 5E12 and later, if the first 3 digits of the 7-digit B1 CHAN TNs on the RDTAPORT 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, the 7-digit B1 CHAN TN(s) must be entered as a 10-digit TN(s).

2.6 B2 CHAN TN

Description: The TN associated with the B2 channel of the Pseudo BRI port. The TN must be unique within the 5ESS Switch.
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:

The first three digits of the B2 CHAN TN must be defined in the OFFICE CODE field on a NOC form.

For 5E12 and later, if the first 3 digits of the 7-digit B2 CHAN TNs on the RDTAPORT 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, the 7-digit B2 CHAN TN(s) must be entered as a 10-digit TN(s).

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PRI

2.7 PRI TN

Description: The TN associated with the Primary Rate Interface B channel port. The TN must be unique within the 5ESS Switch.
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:

The first three digits of the PRI TN must be defined in the OFFICE CODE field on a NOC form.

For 5E12 and later, if the first 3 digits of the 7-digit PRI TNs on the RDTAPORT 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, the 7-digit PRI TN(s) must be entered as a 10-digit TN(s).

```
rdtaport                          5ESS SWITCH                _
(5911-A/B)                  OFFICE DATA ADMINISTRATION
                  REMOTE DIGITAL TEST ACCESS PORT/TN ASSIGNMENT

*1. RDTA OE _ ____________
#4. CSC ID  _________
 5. PAIR    __

        PSEUDO BRI                                  PRI
 6. D CHAN TN  ________                  9. PRI TN ________
 7. B1 CHAN TN ________
 8. B2 CHAN TN ________
```

Figure 1 SAMPLE RDTAPORT FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
rdtaport                            5ESS Switch              _
                           OFFICE DATA ADMINISTRATION
(5911-A/B)          REMOTE DIGITAL TEST ACCESS PORT/TN ASSIGNMENT

*1. RDTA OE _ ____________                 PRI
#4. CSC ID  _________            9. PRI TN ___________
 5. PAIR    __

        PSEUDO BRI
 6. D CHAN TN  ___________
 7. B1 CHAN TN ___________
 8. B2 CHAN TN ___________
```

Figure 2 SAMPLE RDTAPORT FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 1M: 5910A and 5910B RECORD
REMOTE DIGITAL TEST ACCESS TELEPHONE NUMBER - RDTATN

1. GENERAL

The 5910A and the 5910B records are available with the 5E7 and later Software Releases. They are used as part of the RPA (Remote Protocol Access) feature to allow an operating company at a Remote Switch to document the TN (Telephone Number) of a Protocol Analyzer at an Access Switch. The Access Switch is defined as a switch that maintains the connections to the protocol analyzer equipment is the CSC (Customer Service Center). The Remote Switch is a switch that does not maintain physical RPA connections to the CSC. The CSC is a work center where protocol analysis is done.

The RPA feature, also referred to as RDTA (Remote Digital Test Access), provides a craft at a CSC with the ability to troubleshoot a customer problem by a setting up an RDTA connection on the customer's ISDN facilities. For more information, refer to the RPA Feature Description in Division 2, Section 5F.

For each RDTATN form instance, two office records are generated: 5910A and 5910B. The 5910A Record contains the TN, CSC ID, CHANNEL, and PAIR fields. The record is sorted by TN. The 5910B Record contains the same information but is sorted by the CSC ID.

1.1 Recent Change View

The corresponding Recent Change view for this form is 22.18.

2. FORM AND RECORD ENTRIES

2.1 * TN

Description: Enter the TN associated with a particular Pseudo-BRI or PRI B-channel port that has been defined for the RDTA capability.
Valid Entries: A 7-, 10- or 15-digit TN

Data Rules:

If the value entered is a 10-digit TN, it must not match any combinations of NPA and 7-digit TNs entered on the RDTAPORT form (5911-A/B Record).

2.2 # CSC ID

Description: Enter the Customer Service Center ID where protocol analysis is done.

Required Field.
Valid Entries: 1 - 8 characters

2.3 # CHANNEL

Description: Enter the channel associated with the TN. If the TN is associated with a Pseudo-BRI D channel, the value must be 0. If the TN is associated with a Pseudo-BRI B1 the value must be 1. If it is associated with a Pseudo-BRI B2 channel, the value must be 2.

If the TN is associated with a PRI B channel then the value is 1 to 23 depending on the PRI B channel.

Required Field.

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Valid Entries: 0 - 23

2.4 PAIR

Description: Enter the paired number for an RPA output facility. Pairing allows the craft to add distinct paired numbers to sets of Pseudo-BRI or PRI pairs for easy identification on printed office records. No entry indicates that the craft has chosen not to assign a paired number to the facility.
Valid Entries: 1 - 24

```
rdtatn                          5ESS Switch             _
(5910-A/B)                OFFICE DATA ADMINISTRATION
                      REMOTE DIGITAL TEST ACCESS TN/REMARKS

*1. TN      120244902024103
#2. CSC ID  98DKE
#3. CHANNEL 20
 4. PAIR    4
```

Figure 1 SAMPLE RDTATN FORM 5E7 AND LATER SOFTWARE RELEASES

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SEC. 1N: 5915 RECORD
ODB CUT THROUGH TS ALLOCATION - ODBCTUR

1. GENERAL

The On-Demand B-Channel Cut Through Time Slot Allocation form is available with the 5E12 and later Software Releases. It supports the TR-303 RDT (Remote Digital Terminal) on the DNU-S (Digital Networking Unit - Synchronous Optical Network) feature. It is used to reserve cut through time slots for DSL (Digital Subscriber Line) users with the On-Demand B-Channel Packet Switching feature.

Reserved time slots are not initially allocated to the user. Instead, the time slots become part of a cut through time slot "pool" to be accessed later by a DSL user with the ODB feature on the same SM and DNU-S. Prior to reserving cut through time slots, the PSU must be defined on the EQPSU form (5741 Record).

1.1 Recent Change View

The Recent Change/Verify view for this form is 23.19.

1.2 * SM

Description: Enter the SM (Switching Module) number on which the On-demand B-Channel service resides.

Required Field.
Valid Entries: 1 - 192

Data Rules:

If an ODB ISCN is entered on the DSL, the SM entered on this view must equal the first three digits of the Office Equipment number entered on the DSL form. The SM number entered on this view must be defined on the EQIM form (5700 Record) with EQSTAT set to "O".

1.3 * PSU

Description: Enter the Packet Switch Unit number.

Required Field.
Valid Entries: 0

For 5E16 and later, PSU must be "0".

ODB TS LIST

The following fields (Section 1.5 - Section 1.7) provide information for defining the time slot list.

1.4 PSU SHELF

Description: Enter the Packet Switch Shelf number.
Valid Entries: 0 - 4

Data Rules:

PSU SHELF entries must be unique.

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If an ODB ISCN number is entered on the DSL form, the PSU SHELF number on this form should equal the first digit of the ODB ISCN number.

If PSU SHELF is entered, RESERVED TS must be entered.

1.5 RESERVED TS

Description: Enter the number of time slots which have been assigned to the associated cut through peripheral.
Valid Entries: 0 - 768

Data Rules:

If RESERVED TS is entered, SHELF must be entered.

At least one RESERVED TS and PSU SHELF value must be entered.

1.6 AVAILABLE TS

Description: This field defines the maximum number of remaining time slots which may be assigned out of the cut through time slot "pool".
Valid Entries: 0 - 768

1.7 ODB USER

Description: This is a Recent Change only field. It specifies the number of On-Demand B time slots being used on a per shelf basis.

```
                                5ESS SWITCH                    _
odbctur                   OFFICE DATA ADMINISTRATION
(5915)                   ODB CUT THROUGH TS ALLOCATION

*1. SM  ___
*2. PSU 0                      3. ODB TS LIST

                  PSU    RESERVED      AVAILABLE      ODB
            ROW   SHELF      TS             TS        USER
             1      _        ___
             2      _        ___
             3      _        ___
             4      _        ___
             5      _        ___
```

Figure 1 SAMPLE ODBCTUR FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 3: PACKET SWITCHING FORMS

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SEC. 3A: 5920 RECORD
PACKET SWITCHING INTER SM
NAIL-UP FORM - PSISM

1. GENERAL

The 5920 Record is applicable for 5E3 and later Software Releases.The PSISM form is used to define a dedicated path from an ISCN (Integrated Services Channel Number) in one SM (Switching Module) to an ISCN in another SM.

The two ISCNs have a master and mate (slave) relationship. The master controls the state of the path and initiates the vast majority of the work. The mate can detect problems, but can only report the problems to the master.

It is strongly suggested that every effort be made to balance the quantity of masters on each ISDN SM. Though not as critical, it is advisable to balance the quantity of mates on each ISDN SM.

An individual ISDN SM can support a maximum of 160 nail-up endpoints (master or mate). There cannot be more than 32 links between a pair of ISDN SMs.

The combination of SM and DLT or the combination of MATE SM and MATE DLT must be unique within the 5ESS Switch.

1.1 Recent Change View

The corresponding Recent Change view for this form is 22.13.

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 a valid Switching Module number. This field refers to the MASTER.

Required Field.
Valid Entries: 1 - 192

Data Rules:

The SM and the MATE SM cannot be equal.

For 5E9(2) and later, each value of SM and MATE SM entered on the PSISM form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports Packet Switching. For the CONFIGURATION that supports Packet Switching, see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

The value entered in this field must appear in the SWITCHING MODULE field on an EQPSU form (5741 Record).

The following data rules are not executed on an SM-2000, because provisioning of nailed-up time slots is not

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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.

In addition, onn a PSU1 , each Data Interface in a SM can have a maximum of 128 nailed-up time slots reserved for the following applications:

Data Interface for Nailed-up Timeslots

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.
ISM	Defined on the PSISM forms.
IP	Defined by setting TRKCLS equal to "PACKET" on the TKGRP form and defining members on TRUNK forms.
PKTPIPE	Defined by setting TRKCLS equal to "PKTPIPE" on the TKGRP form and defining members on TRUNK forms (CMDA application).
RISLU B Channel	Defined on the DSL/AMLBDSL forms where the first 3 digits of LCEN match SM on an EQRISLU form.
RISLU D Channel	Defined on the DSL/DSLAP/MISLINK/OSPSDSL forms where the first 3 digits of LCEN (on the DSLAP or OSPSDSL form) or OE (on the DSL or MISLINK form) match SM on an EQRISLU form.
SPCHNDLR	Defined by setting TRKCLS equal to "SPCHNDLR" on the TKGRP form and defining members on TRUNK forms (CMDA application).
X.25	Defined on the XAT forms.
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).

2.3 * DLT

Description: Enter a valid Data Link Terminal number. The DLT (Data Link Terminal) is a logical port that has no relationship to a physical port. An ISDN SM can support 160 nail-up endpoints, and the DLT is used as an identifier for each logical port. This field refers to the MASTER.

Required Field.
Valid Entries: 1 - 160

2.4 ISCN

Description: Enter a valid Integrated Services Channel Number.

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Required Field.
Valid Entries: a 6-digit number in the ISCN format

ISCN (INTEGRATED SERVICES CHANNEL NUMBER)

Equipment		Format	Valid Entries
Shelf	-	X	0-4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	000-127 (See note below.)

NOTE: For 5E9(1) and later, the valid Channel entries for a PH2 are 000 - 012.

Data Rules:

The SHELF, PSU protocol handler shelf number, must correspond to a shelf on an EQPSU form which has a SHLF SIDE 0/1 EQST of 0.

The CHL is the PSU protocol handler number on the shelf. Each DSL GROUP corresponds to a PROTOCOL HANDLER assigned to the PSU SHELF on an 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. For 5E4(2) and later, the CHL must be a multiple of 4.

The combination of SM and the last three digits of the ISCN (the CHL) or the combination of MATE SM and the last three digits of MATE ISCN must be unique within the 5ESS Switch. The combination may not be duplicated on any

AMLBDSL form (5447 Record),
DSL form (5900 Record),
DSLAP form (5963 Record),
OSPSDSL form (5411 Record),
another PSISM form (5920 Record)
QPHPIPE form (5828 Record) or,
TRUNK form (5204 Record).

The combination of SM and ISCN or the combination of MATE SM and MATE ISCN may not be duplicated on any of the forms listed above.

PSISM forms cannot have combinations of ISCN (or MATE ISCN) SHELF and CHL GRP entries that duplicate those for the same SM on AMLBDSL, DSL, DSLAP, DSLUSR, ODBRES, OSPSDSL, QPHPIPE, RTERM, or XAT forms, or on TRUNK forms where TRKCLS is "EDSL", "IFTERM", or "IFOPER".

The Protocol Handlers specified on the PSISM forms (combination of SM, with first 3 digits of the ISCN and MATE SM with the first 3 digits of the MATE ISCN) cannot be mixed with Protocol Handlers assigned on other forms. PSISM forms cannot have common SHELF and CHL GRP with the following forms :

CCLNK
DSLUSR
MDLNK
MISLINK
PSULNK
TRUNK
XAT

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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 the SM and three left-most digits of ISCN assigned on this form have been defined on a PSUGP form as SM and PSU SHELF and GRP respectively, then the corresponding value of PH TYPE must not be:

"PHV1" or "PHV2" for 5E10

"PHV1", "PHV2", or "PHV3" for 5E11

"PHV1", "PHV2", "PHV3", "PHV4", "PHV5", "PHV6", or "VIRT" for 5E18

on the PSUGP form.

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.

2.5 MASTER

Description: Is the SM controller of the path? This field defaults to "Y" and cannot be changed.
Default: Y
Valid Entries: Y

2.6 MATE SM

Description: Enter a valid Mate Switching Module number.

Required Field.
Valid Entries: 1 - 192

Data Rules:

The SM and MATE SM cannot be equal.

For 5E9(2) and later, each value of SM and MATE SM entered on the PSISM form must have a corresponding EQIM form with the same SM value where the value entered for CONFIGURATION supports Packet Switching. For the CONFIGURATION that supports Packet Switching, see the table Configurations for

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Facilities and Applications for the EQIM form in Division 8, Section 2.

The value entered in this field must appear in the SWITCHING MODULE field on an EQPSU form (5741 Record).

2.7 MATE DLT

Description: Enter a valid Mate Data Link Terminal number. The DLT (Data Link Terminal) is a logical port that has no relationship to a physical port. An ISDN SM can support 160 nail-up endpoints, and the DLT is used as an identifier for each logical port.

Required Field.
Valid Entries: 1 - 160

2.8 MATE ISCN

Description: Enter a valid Mate Integrated Services Channel Number.

Required Field.
Valid Entries: a 6-digit number in the ISCN format

ISCN (INTEGRATED SERVICES CHANNEL NUMBER)

Equipment		Format	Valid Entries
Shelf	-	X	0-4
Channel Group	CHL GRP	XX	00-15
Channel	CHL	XXX	000-127 (See note below.)

NOTE: For 5E9(1) and later, the valid Channel entries for a PH2 are 000 - 012.

Data Rules:

Refer to the Data Rules for the ISCN field.

```
psism                              5ESS Switch
(5920)                      OFFICE DATA ADMINISTRATION
                         PACKET SWITCHING INTER SM NAIL-UP


* 1. SM              001
* 2. DLT             005
  3. ISCN            400024
  4. MASTER          Y

  5. MATE SM         004
  6. MATE DLT        001
  7. MATE ISCN       010120
```

Figure 1 SAMPLE PSISM FORM 5E5 AND LATER SOFTWARE RELEASES

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SEC. 3B: 5921 RECORD
PACKET SWITCHING DNIC TO RI ASSIGNMENT FORM - PSDNICRI

1. GENERAL

The 5921 Record is applicable to 5E3 and later Software Releases. The PSDNICRI form is used to assign a Route Index that routes to a Packet Switching trunk, and then outside the 5ESS Switch to another Packet Network and its associated Data Network Identification Code.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.35.

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 * DNIC

Description: Enter a valid Packet Switching Data Network ID Code.
Valid Entries:
For 5E3 and 5E4(2): 0 - 9999
For 5E5: 1111 - 1114 and 2000 - 9999
For 5E6 and later: 0001-9999

2.3 ROUTE INDEX

Description: Enter a valid Route Index.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

The Route Index must be defined on the RTIDX form (5303 Record) and that Route Index must point to a Trunk Group with a HUNT TYPE of "PSUCD".

```
psdnicri                5ESS OFFICE DATA ADMINISTRATION
(5921)                         PACKET SWITCHING
                          DNIC TO RI ASSIGNMENT FORM



* 1. DNIC          0001
  2. ROUTE INDEX   0005
```

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Figure 1 SAMPLE PSDNICRI FORM 5E3 AND LATER SOFTWARE RELEASES

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SEC. 3C: 5922 RECORD
PACKET SWITCHING
BILLING RATE PERIODS FORM - PSRATE

1. GENERAL

The 5922 Record is available with 5E3 and later Software Releases. It is used to define the billing rates for Packet Switching. The input form provides billing rate data for each day of the week and for holidays. The billing rate data is specified in one-hour increments.

For 5E3 and 5E4(2), an SM with Packet Switching capabilities is specified on the EQPSU form (5741-1/2 Record). For 5E5 and later, the EQPSUPH form (5742 Record) defines the Packet Switching Protocol Handlers equipped in a 5ESS Switch. If the EQST field does not have at least one entry of "O" (Operational) on the EQPSUPH form, then the PSRATE form must not be entered.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.16.

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 * DAY

Description: Enter holiday or the day of the week. If this office applies the Packet Switching feature, this form must be completed for all eight days.

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 TIME OF DAY

Description: The 24 hours of the day, in one-hour increments, are preprinted on the PSRATE input form. The Billing Rate must be entered for each hour.

Required Field.
Default: 1
Valid Entries:

Valid TIME OF DAY Entries

Entry	Definition
1	Billing rate 1
2	Billing rate 2

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3	Billing rate 3
4	Billing rate 4

```
psrate                  5ESS OFFICE DATA ADMINISTRATION   _
(5922)             PACKET SWITCHING BILLING RATE PERIODS FORM

    * 1. DAY   MON

      2.  00:00-00:59  1      10.  08:00-08:59  4      18.  16:00-16:59  4

      3.  01:00-01:59  1      11.  09:00-09:59  4      19.  17:00-17:59  3

      4.  02:00-02:59  1      12.  10:00-10:59  4      20.  18:00-18:59  3

      5.  03:00-03:59  1      13.  11:00-11:59  4      21.  19:00-19:59  3

      6.  04:00-04:59  1      14.  12:00-12:59  4      22.  20:00-20:59  2

      7.  05:00-05:59  1      15.  13:00-13:59  4      23.  21:00-21:59  2

      8.  06:00-06:59  1      16.  14:00-14:59  4      24.  22:00-22:59  1

      9.  07:00-07:59  3      17.  15:00-15:59  4      25.  23:00-23:59  1
```

Figure 1 SAMPLE PSRATE FORM 5E3 AND LATER SOFTWARE RELEASES

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SEC. 3D: 5923 RECORD
PACKET SWITCHING
PERMANENT VIRTUAL CIRCUIT ASSIGNMENT FORM - PSPVC

1. GENERAL

The 5923 Record is applicable to 5E3 and later Software Releases. The PSPVC form is used to assign PVC (Permanent Virtual Circuit) Logical Channel Numbers to DSLs (Digital Subscriber Lines) that have Packet Switching. The sending and receiving parties must be set up in an identical manner.

1.1 Recent Change View

The corresponding Recent Change View for this form is 23.11.

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 (*) PKT TN

Description: Enter a valid Packet Switching 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:

Either a PKT TN or a PKT MLHG/TERM must be entered.

For 5E5 and later Software Releases, this Packet Switching TN must be defined on a DSLUSR form (5908 Record) in the DPKT TN field or defined on a DSL form (5907 Record) in the PPB1 TN or PPB2 TN field. The value entered in the LCN field must not be greater than the value entered in the H PVC LCN field on the DSL or DSLUSR form.

For 5E12 and later, PKT TN/LCN combinations on different PSPVC forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit PKT TNs on the PSPVC 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 PKT TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.3 (*) PKT MLHG

Description: Enter a valid Packet Switching Multi-Line Hunt Group Number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

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Data Rules:

Either a PKT TN or a PKT MLHG/TERM must be entered.

For 5E5 and later Software Releases, this PKT MLHG/TERM must be defined on one of the following forms:

- DSLUSR form in the DPKT MLHG/TERM field. The value entered in the LCN field must not be greater than the value entered in the H PVC LCN field on the DSLUSR form.
- DSL form in the PPB1 MLHG/TERM or PPB2 MLHG/TERM field. The value entered in the LCN field must not be greater than the value entered in the H PVC LCN field on the DSL form.
- OSPSDSL form (5411 Record) in the DSL NAME ID/DSL NAME RL field with a SERVICE CLASS of "XDB". The value entered in the LCN field must not be greater than the value entered in the HIGH PVC LCN field on the associated AMLBDSL form (5447 Record).

2.4 (*) PKT TERM

Description: Enter a valid Packet Switching Multi-Line Hunt Group Terminal (Member) number.
Valid Entries: 1 - 2015

Data Rules:

If this field is entered, the associated PKT MLHG field must be entered.

2.5 * LCN

Description: Enter a valid packet switching Logical Channel Number.

Required Field.
Valid Entries: 1 - 127

2.6 SEND PKT SIZE

Description: Enter the Send Packet Size which is the maximum number of bytes of data in a packet that can be sent.

Required Field.
Default: 128
Valid Entries: 128 or 256 (bytes)

2.7 RCV PKT SIZE

Description: Enter the Receive Packet Size which is the maximum number of bytes of data in a packet that can be received.

Required Field.
Default: 128
Valid Entries: 128 or 256 (bytes)

2.8 SEND WINDOW SIZE

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a sending

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basis, at any time.

Required Field.
Default: 2
Valid Entries:
5E8 and earlier: 2 - 3
5E9(1) and later: 1 - 7

2.9 RCV WINDOW SIZE

Description: Enter the number of data packets that the CPE device can have unacknowledged, on a receiving basis, at any time.

Required Field.
Default: 2
Valid Entries:
5E8 and earlier: 2 or 3
5E9(1) and later: 1 - 7

2.10 # CALL IND

Description: Enter a valid PVC Logical Channel Number call indicator.

Required Field.

Valid CALL IND Entries

Entry	Definition
CALLING	Calling indicator.
CALLED	Called indicator.

Data Rules:

For 5E13 and earlier, when CALL IND is "CALLING", then REMOTE TN must be entered.

2.11 BILLABLE

Description: Is the logical channel number billable?

Required Field.
Default: Y
Valid Entries: Y, N

2.12 # FCL TYPE

Description: Enter a valid destination facility type. The FCL TYPE (Facility Type) indicates what the interface is on the far end of a PVC (Permanent Virtual Circuit). The PVC is supported for Packet Switching with the layer 3 protocol being either X.25, X.75 or X.75P, the later two enumerations being for packet trunks.

Required Field.

Valid FCL TYPE Entries

Entry	Definition
X25	defines the interface on the far end of the PVC to be an X.25 line
X75	defines the interface on the far end of the PVC to be an X.75 trunk

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X75P	defines the interface on the far end of the PVC to be an X.75P trunk
INET	For 5E14 and later. INET stands for Internet Protocol which is the TCP/IP protocol stack. INET - defines the interface on the far end of the PVC to be an interface to TCP/IP. This interface is internal to the switch and is not associated with a physical external interface.

Data Rules:

When FCL TYPE is "INET" or "X25", REMOTE DNIC and LINK ID must not be entered.

When FCL TYPE is not "INET" or "X25", REMOTE DNIC and LINK ID must be entered.

When FCL TYPE is "INET" or "X75", REMOTE TN must not be entered.

When FCL TYPE is not "INET", REMOTE LCN must be entered.

When FCL TYPE is "INET":

CALL IND must be "CALLING".

SEND PKT SIZE must be 256.

RCV PKT SIZE must be 256.

SEND WINDOW SIZE must be 7.

RCV WINDOW SIZE must be 7.

For 5E14 and later, when the FCL TYPE on the PSPVC form is set to "INET", there must exist a matching IPINTF form (case 1) where PKT TN equals PKT TN and LCN equals LCN, or a matching IPINTF form (case 2) where PKT MLHG/PKT TERM equals PKT MLHG/PKT MEMB and LCN equals LCN. In either case 1 or case 2 above, the SEND PKT SIZE on the PSPVC form must be greater than or equal to the MTU SIZE on the corresponding IPINTF form.

2.13 LINK ID

Description: Enter the gateway Link ID. When the FCL TYPE is X75 or X75P, the LINK ID points to the Remote Trunk Gateway.
Valid Entries: 1 - 255

2.14 REMOTE LCN

Description: Enter a valid Remote packet switching Logical Channel Number.
Valid Entries: 1 - 4095

2.15 REMOTE TN

Description: Enter a valid Remote Directory Number in NPANXXXXXX format.
Valid Entries: 10 digits

2.16 REMOTE DNIC

Description: Enter a valid Packet Switching Data Network ID Code.

The DESTINATION PSN will be used for routing. The REMOTE DNIC may be used at the far end of the PVC

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for billing purposes.
Valid Entries: 1111 - 1114 and 2000 - 9999

2.17 DESTINATION PSN

Description: Enter the Destination Packet Switch Number. The PSN entered must be a Packet Switch Number of a 5ESS Switch that resides in the same IP (Internal Protocol) subnetwork as this switch. The PSN entered will be the switch that provides the gateway trunk group which is either:

- the PSN of the 5ESS Switch which connects the IP subnetwork to the PPSN via an X.75' trunk group, or
- the PSN of a 5ESS Switch that is connected to a 1PSS which connects to the PPSN.

Software Release: 5E5 and later
Valid Entries: 1 - 255

Data Rules:

The PSN entered must be defined on the RTIDX form in the DESTINATION PSN field.

2.18 INTRA GROUP

Description: The INTRA GROUP field applies to the Packet Switching Data Business Group Service feature. This feature enables a customer to set up and administer intra-switch PBGs (Packet Business Groups) by assigning a PBG number to each X.25 termination to distinguish between intra-group calls and other calls on the AMA billing record. An MLHG (Multi-Line Hunt Group) will be assigned to a PBG by associating a PBG number with the MLHG TN.

An entry in this field indicates whether or not the PVC is considered intra-group for billing purposes.

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

DEPENDENCIES BETWEEN THE FCL TYPE FIELD AND OTHER FIELDS

	FCL TYPE			
	X25	**X75**	**X75P**	**INET**
CALL IND	Required	Required	Required	CALLING
LINK ID	Prohibited	Required	Required	Prohibited
REMOTE LCN	Optional for 5E6 and earlier. Required for 5E7 and later.	Required	Optional for 5E6 and earlier. Required for 5E7 and later.	Prohibited
REMOTE TN	Required	Prohibited	Required	Prohibited
REMOTE DNIC	Prohibited	Required	Required	Prohibited
DESTINATION PSN	Prohibited	Required	Required	Prohibited

Figure 1 DEPENDENCIES BETWEEN THE FCL TYPE FIELD AND OTHER FIELDS

```
pspvc                          5ESS Switch                    _
                          OFFICE DATA ADMINISTRATION
(5923)        PACKET SWITCHING PERMANENT VIRTUAL CIRCUIT ASSIGNMENT
```

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```
(*)1. PKT TN   ___________     #11. FCL TYPE ____
(*)2. PKT MLHG _____            12. LINK ID  ___
(*)3. PKT TERM _____
  *4. LCN      ___              13. REMOTE LCN  ____
                                14. REMOTE TN   ___________
   5. SEND PKT SIZE    128      15. REMOTE DNIC ____
   6. RCV PKT SIZE     128
   7. SEND WINDOW SIZE 2        16. DESTINATION PSN ___
   8. RCV WINDOW SIZE  2        17. INTRA GROUP     N

  #9. CALL IND _______
  10. BILLABLE Y
```

Figure 2 SAMPLE PSPVC FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 3E: 5924/5924A RECORDS
PACKET SWITCHING CLOSED USER GROUP
ASSIGNMENT FORM - PSCUG

1. GENERAL

The 5924/5924A Record is applicable to 5E3 and later Software Releases. The PSCUG form is used to assign DSLs (Digital Subscriber Lines), that have Packet Switching, to a Closed User Group.

There are two records associated with this form. The 5924 Record is arranged in the format of the ODA input form. The 5924A Record is arranged by DNIC/ICN and is an output record only.

1.1 Recent Change View

The corresponding Recent Change view for this form is 23.10.

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 * PKT TN

Description: Enter a valid Packet Switching Telephone Number. Either a PKT TN or a PKT MLHG/TERM must be entered.

Required Field
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 5E5 and later Software Releases, this Packet Switching TN must be defined on a DSLUSR form in the DPKT TN or ODB TN field or defined on a DSL form in the PPB1 TN or PPB2 TN field.

For 5E7 and later, this Packet Switching TN must be defined on a DSLUSR form in the DPKT TN or ODB TN field, or, defined on a DSL form in the PPB1 TN or PPB2 TN field, or, defined on the XAT form (5924 Record) in the PKT TN field.

For 5E10 and later, when PKT TN(s) on the PSCUG form match PKT TN(s) on the XAT form(s) the OE must be specified.

For 5E12 and later, PKT TN/CUG IDX combinations on different PSCUG forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit PKT TNs on the PSCUG 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 PKT TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

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2.3 * PKT MLHG

Description: Enter a valid Packet Switching Multi-Line Hunt Group Number. Either a PKT TN or a PKT MLHG/TERM must be entered.

Required Field
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: 1 - 8191

Data Rules:

For 5E5 and later Software Releases, this PKT MLHG/TERM must be defined on a DSLUSR form in the DPKT MLHG/TERM field or on a DSL form in the PPB1 MLHG/TERM or PPB2 MLHG/TERM field.

2.4 * PKT TERM

Description: Enter a valid Packet Switching Multi-Line Hunt Terminal Number.

Required Field
Valid Entries: 1 - 2015

Data Rules:

If a Packet Switching TERM is entered, the associated Packet Switching MLHG field must be entered.

2.5 * CUG IDX

Description: Enter a valid Preferential Customer Closed User Group Index.

Required Field.
Valid Entries: 0 - 99

Data Rules:

For each unique PKT TN, as the CUG IDX varies from 0 to 99, the combination of DNIC and ICN values should be unique.

CLOSED USER GROUP

2.6 DNIC

Description: Enter a valid Packet Switching Data Network ID Code.

Required Field.
Valid Entries: 1111 - 1114 and 2000 - 9999

2.7 ICN

Description: Enter a valid International Closed User Group Number.

Required Field.
Valid Entries: 0 - 65535

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```
pscug                              5ESS Switch              _
(5924,5924A)                 OFFICE DATA ADMINISTRATION
                  PACKET SWITCHING CLOSED USER GROUP ASSIGNMENT



* 1. PKT TN   ________
* 2. PKT MLHG 0005
* 3. PKT TERM 0006
* 4. CUG IDX  02

     CLOSED USER GROUP
  5. DNIC     1111
  6. ICN      00001
```

Figure 1 SAMPLE PSCUG FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
pscug                              5ESS Switch              _
                             OFFICE DATA ADMINISTRATION
(5924,5924A)      PACKET SWITCHING CLOSED USER GROUP ASSIGNMENT

(*)1. PKT TN   ____________
(*)2. PKT MLHG _____
(*)3. PKT TERM _____
  *4. CUG IDX  __

CLOSED USER GROUP
  #5. DNIC _____
  #6. ICN  ______
```

Figure 2 SAMPLE PSCUG FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 3F: 5925/5925A RECORD PACKET SWITCHING ISDN MODEM TN TO DSL ASSIGNMENT FORM - PSMTN

1. GENERAL

The 5925 and 5925A Records are applicable to 5E4(2) and later Software Releases. The PSMTN form is used to assign Modem Pool access TNs to DSLs (Digital Subscriber Lines) that have Packet Switching.

Two records are associated with this form. The 5925 Record is arranged in the format of the ODA input form. The 5925A Record is arranged by ACCESS TN and is an output record only.

For more information on ISDN Modem Pools see Division 2, Section 1AL, "ISDN Closed User Groups and Modem Pooling."

1.1 Recent Change View

The corresponding Recent Change view for this form is 23.12.

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 (*) PKT TN

Description: Enter a valid Packet Switching 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:

Either a PKT TN or a PKT MLHG/TERM must be entered.

For 5E4(2), this Packet Switching TN must be defined as a PKT TN on a DSL form (5900 Record) or DSMLHLN form (5901 Record).

For 5E5 and later,

this Packet Switching TN must be defined on either a DSLUSR form (5908 Record) in the DPKT TN or ODBTN field or on a DSL form (5907 Record) in the PPB1 TN or PPB2 TN field.

the PKT TN must be defined on the DSL form (5907 Record) as PPB1 TN or PPB2 TN, or on the DSLUSR form (5908 Record) as DPKT TN, DPKT MLHG TN, or ODB TN, or on the MLHG form (5110 Record) within the range of TNs specified by LISTED TN to HIGHEST LISTED TN where HUNT TYPE is "PSUCD" on the corresponding MLHGFD form (5604 Record). For 5E6 and later, PKT TN can also be defined on the XAT form. For 5E8 and later, it can also be defined on the DSL form as PPB1 LNR HNT TN or PPB2 LNR HNT TN, or on the DSLUSR form as DPKT LNR HNT TN, ODB MLHG TN, or ODB

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LNR HNT TN, or on the XAT form as LNR HNT TN.

For 5E12 and later,

PKT TNs on different PSMTN forms cannot be duplicated.

if the first 3 digits of the 7-digit PKT TNs on the PSMTN 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 PKT TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.3 ACCESS TN

Description: Enter a valid Modem Pooling Access Telephone Number without prefix.

ACCESS TN must contain at least one Modem Pooling Access TN, and each ACCESS TN must be a unique number. There can be a total of 11 ACCESS TNs.
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,

the ACCESS TN(s) on the PSMTN form cannot match another ACCESS TN on the same PSMTN form.

the first three digits of a 7-digit TN or 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.

For 5E12 and later,

if the first 3 digits of the 7-digit ACCESS TNs on the PSMTN 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 ACCESS TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.4 MODEM POOL GROUP

Description: Enter a valid Packet Switching Modem Pool Group Number.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

MODEM POOL GROUP is a required entry when ACCESS TN is defined.

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The MODEM POOL GROUP must be defined as an MLHG (5110 Record) with a value in the MPTYPE field. It must also appear on a PSCUG form (5924 Record) in the PKT MLHG field.

```
psmtn                              5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(5925,5925A)    PACKET SWITCHING ISDN MODEM TN TO DSL ASSIGNMENT

*1. PKT TN ____________                    2.
                           ROW ACCESS TN  MODEM POOL GROUP
                             1 ____________       _____
                             2 ____________       _____
                             3 ____________       _____
                             4 ____________       _____
                             5 ____________       _____
                             6 ____________       _____
                             7 ____________       _____
                             8 ____________       _____
                             9 ____________       _____
                            10 ____________       _____
                            11 ____________       _____
```

Figure 1 SAMPLE PSMTN FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 3G: 5926 RECORD
TRUNK PACKET SWITCHING PVC LCN ASSIGNMENT FORM - X75PVC

1. GENERAL

The 5926 Record is available with 5E5 and later Software Releases. The X75PVC form is used to assign PVC (Permanent Virtual Circuit) Logical Channel Numbers to X.75P and X.75 packet switching trunks.

Trunks defined on this form must be X.75P or X.75 trunks (TRKCLS must be "X75P" or "X75" on the TKGRP form).

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.13.

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 * TGN

Description: Enter the Trunk Group Number of the trunk to be assigned to a PVC.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The TGN entered in this field must be defined on the TKGRP form with a TRKCLS of "X75P" or "X75".

2.3 * MEMB

Description: Enter the Trunk Group Member Number.
Valid Entries: 0 - 23

Data Rules:

The TGN/MEMB must be defined on a TRUNK form.

2.4 * LCN

Description: Enter a packet switching Logical Channel Number.
Valid Entries: 1 - 127

Data Rules:

The value entered in this field must be less than or equal to the value entered in the HIGH PVC LCN field on the TRUNK form.

2.5 # CALL IND

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Description: Enter a PVC Call Indicator to determine which end of the PVC is calling or being called.

Required Field.

Valid CALL IND Entries

Entry	Definition
CALLING	PVC calling end
CALLED	PVC called end

2.6 FCL TYPE

Description: Enter the Tandem Trunk Remote Facility Type. The FCL TYPE (Facility Type) indicates what the interface is on the far end of a PVC (Permanent Virtual Circuit). The PVC is supported for Packet Switching with the layer 3 protocol being either X.25, or X.75P, the later enumeration being for packet trunks.

Software Release: 5E8 and later
Required Field.
Valid Entries:

Valid FCL TYPE Entries

Entry	Definition
X75P	defines the interface on the far end of the PVC to be an X.75P trunk
X25	defines the interface on the far end of the PVC to be an X.25 line
INET	For 5E14 and later. INET stands for Internet Protocol which is the TCP/IP protocol stack. INET - defines the interface on the far end of the PVC to be an interface to TCP/IP. This interface is internal to the switch and is not associated with a physical external interface.

Data Rules:

If FCL TYPE is "X75P", then LINK ID and PSN must be entered, and PVC ID NUMBER and BILLABLE must not be entered. Also, TRKCLS on the corresponding TKGRP must be set to "X75P".

If FCL TYPE is "X25", REMOTE TN must be entered.

When FCL TYPE is "INET", REMOTE LCN must not be entered.

When FCL TYPE is "INET":

CALL IND must be "CALLING".

SEND PKT SIZE must be 256.

RCV PKT SIZE must be 256.

SEND WINDOW SIZE must be 7.

RCV WINDOW SIZE must be 7.

For 5E14 and later, when the FCL TYPE on the X75PVC form is set to "INET", there must exist a matching IPINTF form where TGN equals TGN, MEMB equals TGN MEMB and LCN equals LCN. The SEND PKT SIZE on the X75PVC form must be greater than or equal to the MTU SIZE on the corresponding IPINTF form.

For 5E14 and later, when the FCL TYPE on the X75PVC form is set to "INET", there must exist a matching TRUNK form where TGN/MEMB equals TGN/MEMB. The TRUNK form must have a matching PSUGP form where the first three digits of DEN or NEN, and the first digit of ISCN and the second two digits of ISCN equal

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SM, PSU SHELF and GRP respectively. The PH TYPE on the corresponding PSUGP form must be set to "PH3" or "PH4".

2.7 # ACCESS TN

Description: The name of this field was changed to REMOTE TN in 5E8. This field name applies to 5E5 - 5E7. See REMOTE TN for usage information.

2.8 # ACCESS LCN

Description: The name of this field was changed to REMOTE LCN for 5E8. This field name applies to 5E5 - 5E7. See REMOTE LCN for usage information.

2.9 REMOTE LCN

Description: Enter a Remote (Access) LCN (Logical Channel Number). The Remote LCN is the LCN associated with the far end of the PVC. (This field was called ACCESS LCN for 5E5 - 5E7.)
Valid Entries: 1 - 4095

X25 FCL TYPE

The following field must only be defined when the FCL TYPE is set to X25.

2.10 REMOTE TN

Description: Enter a valid Remote (Access) Telephone Number. The Remote TN is the telephone number at the remote end of the PVC. The format of the 10-digit TN is NPANXXXXXX where the digits are as follows:

- N is (2 - 9)
- P is (0 - 1)
- A and X are (0-9).

(This field was called ACCESS TN for 5E5 - 5E7).

Required Field.
Valid Entries: ten digit number

X75P FCL TYPE

The following fields (Section 2.11 - Section 2.12) must only be defined when the FCL TYPE is set to X75P.

2.11 LINK ID

Description: Enter the Tandem Trunk Remote Gateway Link ID. This field is used to designate the destination (remote) gateway link ID of a tandem X.75P to X.75P trunk group PVC.
Valid Entries: 1 - 255

Data Rules:

If FCL TYPE is "X75P", LINK ID and PSN must be entered.

2.12 PSN

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Description: Enter the Packet Switch Number of the far end X75P PVC. This field identifies the destination packet switch that provides the IP interface with another packet switching network. The destination packet switch is a switch that resides in the same IP subnetwork as this switch.
Valid Entries: 1 - 255

Data Rules:

If FCL TYPE is "X75P", LINK ID and PSN must be entered.

The PSN assigned on this form must be defined on an RTIDX form.

2.13 SEND THRUPUT CLASS

Description: Enter the Sending Throughput Class which is the bits per second at which a virtual call will send data.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600 or 19200.

2.14 RCV THRUPUT CLASS

Description: Enter the Receive Throughput Class which is the bits per second at which a virtual call will receive data.
Default: 9600
Valid Entries: 75, 150, 300, 600, 1200, 2400, 4800, 9600 or 19200.

2.15 SEND PKT SIZE

Description: Enter the Send Packet Size which is the maximum number of bytes of data in a packet that can be sent.
Default: 128
Valid Entries: 128 or 256 bytes.

2.16 RCV PKT SIZE

Description: Enter the Receive Packet Size which is the maximum number of bytes of data in a packet that can be received. Default Value: 128
Valid Entries: 128 or 256 bytes

2.17 SEND PKT WINDOW SIZE

Description: Enter the number of data packets that the STE can have unacknowledged, on a sending basis, at any time.
Default: 2
Valid Entries:
5E8 and earlier: 2 - 3
5E9(1) and later: 1 - 7

2.18 RCV PKT WINDOW SIZE

Description: Enter the number of data packets that the STE can have unacknowledged, on a receiving basis, at any time.

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Default: 2
Valid Entries:
5E8 and earlier: 2 - 3
5E9(1) and later: 1 - 7

X.75 ONLY

The name of this heading was changed to X.75 TGN for 5E8 and later. This heading name is for 5E6 and 5E7 only. See X.75 TGN for usage information.

X75 TGN

The following fields (Section 2.19 - Section 2.20) must only be defined when TRKCLS on the TKGRP form is "X75" for the same TGN. (This heading was called X.75 ONLY for 5E6 and 5E7.)

2.19 PVC ID NUMBER

Description: Enter a Permanent Virtual Circuit ID number. This ID is assigned to an X.75 PVC to be used for AMA inter-network billing records.

Software Release: 5E6 and later
Valid Entries: 1 - 9999

Data Rules:

Trunks with a TRKCLS other than "X75" should leave this field blank.

2.20 BILLABLE

Description: Is this X.75 PVC the billable user?

Software Release: 5E6 and later
Valid Entries: Y, N

Data Rules:

Trunks with a TRKCLS other than "X75" should leave this field blank.

```
x75pvc                          5ESS Switch             _
                          OFFICE DATA ADMINISTRATION
(5926)              TRUNK PACKET SWITCHING PVC LCN ASSIGNMENT

*1. TGN         0085              10. SEND THRUPUT CLASS   9600
*2. MEMB        00                11. RCV  THRUPUT CLASS   9600
*3. LCN         121               12. SEND PKT SIZE        128
#4. CALL IND    CALLING           13. RCV  PKT SIZE        128
#5. FCL TYPE    X75P              14. SEND PKT WINDOW SIZE 2
 6. REMOTE LCN  0005              15. RCV  PKT WINDOW SIZE 2
       X25 FCL TYPE
 7. REMOTE TN ___________                 X75 TGN
                                  16. PVC ID NUMBER ____
```

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```
 X75P FCL TYPE                  17. BILLABLE      _
8. LINK ID 100
9. PSN     20
```

Figure 1 SAMPLE X75PVC FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 3I: 5928 RECORD
TRANSIT NETWORK IDENTIFICATION CODE FORM - TNICLIST

1. GENERAL

The 5928 Record is available with the 5E8 Software Release and it is used to provision a list of up to 20 shared INICs/DNICs (ISDN Network Identification Codes / Data Network Identification Codes) for the entire switch.The list of shared INICs/DNICs are referred to as TNIs (Transit Network Identifiers). The number of entries may vary from 0 to 20. The list can be empty, i.e., 0, or the list may contain up to 20 TNI entries. The entries in the list must be unique.

This form can only be entered for ISDN offices, and only one form is entered for an office.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.15.

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 the designated key to the form. It must always be 0.

Valid Entry: 0

2.3 INIC/DNIC

Description: Enter the INIC (ISDN Network Identification Code) or DNIC (Data Network Identification Code). Each entry must be unique; duplicate entries cannot be made.
Valid Entries: 1 - 9999

Data Rules:

For 5E9(1) and earlier, the TNICLIST form can only be entered for offices that contain ISDN SMs; therefore, at least one SM on the EQIM form (5700 Record) must have a CONFIGURATION of "LOADED".

For 5E9(2) and later, the TNICLIST form can only be entered for offices that support Transit Network Identification; therefore, at least one SM on the EQIM form must have a CONFIGURATION that supports Transit Network Identification.

```
tniclist                          5ESS Switch                 _
                             OFFICE DATA ADMINISTRATION
(5928)                  TRANSIT NETWORK IDENTIFICATION CODES

*1. KEY 0
                                    2. TNIC LIST
```

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ROW	INIC/DNIC	ROW	INIC/DNIC	ROW	INIC/DNIC	ROW	INIC/DNIC
1	0132	6	0239	11	_____	16	_____
2	0133	7	_____	12	_____	17	_____
3	0134	8	_____	13	_____	18	_____
4	0165	9	_____	14	_____	19	_____
5	0238	10	_____	15	_____	20	_____

Figure 1 SAMPLE TNICLIST FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 3J: 5949 RECORD
PACKET SWITCHING UNIT LOGICAL GROUP FORM - PSUGP

1. GENERAL

The 5949 Record is available with 5E6 and later Software Releases. It is used to specify the PH (Protocol Handler) type for a defined logical channel group on a PSU (Packet Switching Unit) shelf. Any ISCNs assigned on the following forms must be represented on this form: the AMLBDSL form (5447 Record), the CCLNK form (6004 Record), the DSL form (5907 Record), the DSLAP form (5963 Record), the DSLUSR form (5908 Record), the IPDSL form (6430 Record), the MDLNK (5637 Record), the MISLNK (5637), the ODBRES form (5906 Record), the OSPSDSL form (5411 Record), the PSISM form (5920 Record), the PSULNK form (5057 Record), the PSUPIPE form (5990 Record), the QPHPIPE (5828 Record), the RTERM (5174 Record), the TRUNK form (5204 Record), and the XAT form (5909 Record). Also, a combination of SM, PSU, PSU SHELF, and GRP must be entered with VIRTUAL set to "N".

PH types can be mixed on the PSU shelf making it necessary to specify the PH TYPE per logical channel group. The logical channel group does not represent the exact physical location of the PH circuit pack; it represents the existence of the pack on a PSU shelf in the PSU.

1.1 Recent Change View

The corresponding Recent Change view for this form is 22.16.

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 * SM

Description: Enter the Switching Module where this PSU resides.

Required Field.
Valid Entries: 1 - 192

Data Rules:

For 5E18 and later, when SM, PSU, PSU SHELF, GRP TYPE, and PH TYPE are entered on the PSUGP form, and SG 0 TYPE and SG 1 TYPE are set to "PSU2E" on the EQPSU form (5741 Record), the following forms must be set accordingly:

CCLNK (6004 Record)

GSM, SHELF, and CHANNEL GROUP must be entered.

MDLNK (6009 Record)

SM, SHELF, and CHANNEL GROUP must be entered.

ATMLNK (5592 Record)

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SM, PSU, SHELF, and CHL GRP must be entered and CON TYPE is set to "ATMNET" or "ATMPP".

PSULNK (5057 Record)

NEAR SM, NEAR PSU, NEAR SHELF, and NEAR CHL GRP must be entered and CON TYPE is set to "ATMNET" or "POINT".

FAR SM, FAR PSU, FAR SHELF, and FAR CHL GRP must be entered and CON TYPE is set to "POINT".

TRUNK (5204 Record)

The first seven digits of TRKOE must be entered on the TRUNK form where TRKOE type is "U" and TRKCLS is "FRBC" or "PKTPIPE" on the TKGRP form (5202 Record).

The first seven digits of TRKOE must be entered on the TRUNK form where TRKOE type is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is "8K", "13K", or "EVRC"on the TKGRP form.

The first seven digits of TRKOE must be entered on the TRUNK form where TRKOE type is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is "13K" or "EVRC"on the TKGRP form.

The first seven digits of TRKOE must be entered on the TRUNK form where TRKOE type is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is "13K", "EVRC", or "CEV13" on the TKGRP form.

The first seven digits of TRKOE must be entered on the TRUNK form where TRKOE type is "U" and TRKCLS is "A5", "IS41", or "3GPD" on the TKGRP form.

the first seven digits of TRKOE have been assigned on the TRUNK form where TRKOE type is "U"' and TRKCLS is "SPCHNDLR" and SERV TYPE is not "13", "EVRC", "CEV13", or "SME13" (on the TKGRP form).

ETHIP (5995 Record)

SM, PSU, SHELF, and CHANNEL GROUP must be entered.

When SM, PSU, PSU SHELF, GRP, and PH TYPE are entered on the PSUGP form, and the corresponding combination of SWITCHING MODULE and PSU on the EQPSU form (5741 Record) are assigned an SG 0 TYPE or SG 1 TYPE of "PSU2E" or "IPS", then

GSM, SHELF, and CHANNEL GROUP must be assigned on the CCLNK form (6004 Record) where VCDX OFFICE is "N" on the EQCORE form (5701 Record).

SM, SHELF, and CHANNEL GROUP must be assigned on the MDLNK form (6009 Record) where VCDX OFFICE is "N" on the EQCORE form (5701 Record).

SM, PSU, SHELF, and CHL GRP must be assigned on the ATMLNK form (5592 Record) where CON TYOE is not "ATMNET" or "ATMPP".

NEAR SM, NEAR PSU, NEAR SHELF, and NEAR CHL GRP must be assigned on the PSULNK form (5057 Record) where CON TYPE is not "ATMNET" or "POINT".

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FAR SM, FAR PSU, FAR SHELF, and FAR CHL GRP must be assigned on the PSULNK form where CON TYPE is not "POINT".

the first seven digits of TRKOE must be assigned on the TRUNK form (5204 Record) where TRKOE is "U" and TRKCLS is not "FRBC" or "PKTPIPE" on the TKGRP form.

SM, PSU, SHELF, and CHANNEL GROUP must be assigned on the ETHIP form (5996 Record).

(for PSU=0) the first seven digits of TRKOE must be assigned on the TRUNK form (5204 Record) where TRKOE is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is not "8K", "13K", or "EVRC" on the TKGRP form.

(for PSU = 1) the first seven digits of TRKOE must be assigned on the TRUNK form where TRKOE is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is not "13K" or "EVRC" on the TKGRP form.

the first seven digits of TRKOE must be assigned on the TRUNK form where TRKOE is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is not "EVRC", "CEV13", "SME13","EVRCB", or "EVEVB" on the TKGRP form.

the first seven digits of TRKOE must be assigned on the TRUNK form where TRKOE is "U" and TRKCLS is "SPCHNDLR" and SERV TYPE is not "A5", "IS41", or "3GPD" on the TKGRP form.

ISCN must be assigned on the TRUNK form where DCHN DESG PRIM is entered and TKCLS is "EDSL" on the TKGRP form.

When SM, PSU, PSU SHELF, GRP, and PH TYPE are entered on the PSUGP form, and the corresponding combination of SWITCHING MODULE andd PSU on the EQPSU form (5741 Record) are assigned an SG 0 TYPE or SG 1 TYPE of "PSU2E", the corresponding combination of GLOBAL SM, PSU SHELF, and CHANNEL GROUP must be assigned on the QPHPIPE form (5828 Record).

2.3 * PSU

Description: Enter the Packet Switching Unit number.

Required Field.
Default: 0
Valid Entries:

5E15 and earlier: 0
5E16 and later: 0 - 1

Data Rules:

For 5E20(1) and later

The number of PH on each shelf must be greater than or equal to number of channel groups reserved for an SMPH hardware type. The number of PHs on each shelf greater or equal to the number of channel groups reserved for an SMPH hardware type. The number of PHs on each shelf is obtained from EQPSUPH form where EQPSTAT is "O" and PHCLI is known.The number of channel groups reserved for SMPH hardware type is obtained from PSUGP form where SM, PSU, PSU SHELF of EQPSU form matches SM, PSU, PSU SHELF of PSUGP form.

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2.4 * PSU SHELF

Description: Enter the PSU Shelf number.

Required Field.
Valid Entries: 0 - 4

2.5 AVAILABLE PH2

Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available PH2s in the PSU. This number is determined by subtracting the number of spare and assigned PH2s from the total number of operational PH2s.
Valid Entries: 0 - 16

2.6 AVAILABLE PH3

Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available PH3s in the PSU. This number is determined by subtracting the number of spare and assigned PH3s from the total number of operational PH3s.
Valid Entries: 0 - 16

2.7 AVAILABLE PH4

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available channel groups for protocol handler 4.

Software Release: 5E10 and later
Valid Entries: 0 - 16

2.8 AVAILABLE PH22

Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available PH22s in the PSU. This number is determined by subtracting the number of spare and assigned PH22s from the total number of operational PH22s. This field supports the Protocol Handler 22 Base System feature. For more information on this feature, see Division 2, Section 5L.

Software Release: 5E14 and later
Valid Entries: 0 - 16

2.9 AVAILABLE PH31

Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available PH31s in the PSU. This number is determined by subtracting the number of spare and assigned PH31s from the total number of operational PH31s. This field supports the SAAL (Signaling Link ATM (Asynchronous Transfer Mode) Adaptation Layer) SS7 (Signaling System 7) High Speed Signaling Links feature. For more information on this feature, see Division 2, Section 4A670.

Software Release: 5E16 and later
Valid Entries: 0 - 16

2.10 AVAILABLE PH33

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Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available PH33s in the PSU. This number is determined by subtracting the number of spare and assigned PH33s from the total number of operational PH33s. This field supports the SIP (Session Initiation Protocol) for Packet Trunking feature. For more information see Division 2, Section 4A684.

Software Release: 5E16(2) FR 3 and later
Valid Entries: 0 - 16

2.11 AVAILABLE PHV1

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available channel groups for protocol handlers for voice 1. The verify fields AVAILABLE PHV1 and AVAILABLE PHV2 were added to support the new PH types for the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B. PHV1 protocol handler supports the 8 KB/S vocoder.

Software Release: 5E10 and later
Valid Entries: 0 - 16

2.12 AVAILABLE PHV2

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available channel groups for protocol handlers for voice. This field supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B. The PHV2 protocol handler supports the 13KB/S vocoder.

Software Release: 5E10 and later
Valid Entries: 0 - 16

2.13 AVAILABLE PHV3

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available channel groups for protocol handlers for voice. This field supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B. The PHV3 protocol handler supports the 13KB/S vocoder.

Software Release: 5E11 and later
Valid Entries: 0 - 16

2.14 AVAILABLE PHV4

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of available channel groups for protocol handlers for voice. This field supports the CDMA (Code Division Multiple Access) feature. For more information on this feature, see Division 2, Section 8B. The PHV4 protocol handler supports the 13KB/S vocoder.

Software Release: 5E12 and later
Valid Entries: 0 - 16

2.15 AVAILABLE PHV5

Description: This is a Recent Change Verify field. It is a display-only field in ODA. Therefore, no ODA input is

required. It displays the number of available protocol handlers for voice 5. This field supports the PHV5 (Downloadable Protocol Handler for Voice 5) feature. For more information on this feature, see Division 2, Section 8AB.

Software Release: 5E16.1 and later
Valid Entries: 0 - 16

2.16 AVAILABLE PHV6

Description: This is a Recent Change Verify field. It is a display-only field in ODA. Therefore, no ODA input is required. It displays the number of available protocol handlers for voice 5. This field supports the PHV6 (Protocol Handler for Voice 6) feature. For more information on this feature see, Division 2, Section 7CD.

Software Release: 5E18(1) and later
Valid Entries: 0 - 16.

2.17 AVAILABLE PHA1

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of protocol handlers for asynchronous transfer mode (type 1) which are available to be assigned to channel groups. This field supports the PHA (Protocol Handler Asynchronous Transfer) feature. For more information on this feature, see Division 2, Section 4A224.

Software Release: 5E10 and later
Valid Entries: 0 - 16.

2.18 AVAILABLE PHA2

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) A2 (ATM (Asynchronous Transfer Mode) - version 2. This field supports the PHA2/PHE2 on PH30 feature. For more information on this feature, see Division 2, Section 5BM.

Software Release: 5E16 and later
Valid Entries: 0 - 16

2.19 AVAILABLE PHE2

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) E2 (Ethernet - version 2). This field supports the PHA2/PHE2 on PH30 feature. For more information on this feature, see Division 2, Section 5BM.

Software Release: 5E16 and later
Valid Entries: 0 - 16

2.20 AVAILABLE PHE3

Description: This is a Recent Change Verify field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) E3 (Ethernet - version 3). This field supports the IP (Internet Protocol) Backhaul feature (99-5E-8530). For more information on this feature, see Division 2, Section 7CN.

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Software Release: 5E19 and later
Valid Entries: 0 - 16

2.21 AVAILABLE PHE4

Description: This is a Recent Change Verify field. It is a display-only field for ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) E4 (Ethernet - version 4). This field supports the IP (Internet Protocol) Soft Hand-Off feature (99-5E-8688). For more information on this feature, see Division 2, Section 4A774.

Software Release: 5E19 and later
Valid Entries: 0 - 16

2.22 AVAILABLE PH7A

Description: This is a Recent Change Verify field. It is a display-only field for ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) for Voice. This field supports the PHV7 feature (99-5E-8744). For more information on this feature, see Division 2, Section 7CL.

Software Release: 5E20(1) and later
Valid Entries: 0 - 16

2.23 AVAILABLE PH7AT

Description: This is a Recent Change Verify field. It is a display-only field for ODA, therefore, no ODA input is required. It displays the number of channel groups for PH (Protocol Handler) for Voice with PCT link. This field supports the PHV7 feature (99-5E-8744). For more information on this feature, see Division 2, Section 7CL.

Software Release: 5E20(1) and later
Valid Entries: 0 - 16

2.24 VIRTUAL

Description: The Virtual packet switch interface unit shelf that specifies whether or not the PSU shelf number is virtual.

Software Release: 5E16 and later
Default: N
Valid Entries: Y, N

Data Rules:

When VIRTUAL is "Y", an ENETLINK form (5827 Record) must exist on the same SM with a SERV TYPE value of "CFS".

CDMA CHANNELS IN OFFICE

The following fields (Section 2.25 - Section 2.28) supports the Securing Voice and Data Channel Counts feature. For more information, see Division 2, Section 5Q.

2.25 VOICE PROVISIONED

Description: This field is used to specify the total licensed voice channels in an office. This is a display_only

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field.

Software Release: 5E18.1 and later

2.26 VOICE TOTAL LICENSED

Description: This field is used to specify the total licensed voice channels in an office. This is a display_only field.

Software Release: 5E18.1 and later

2.27 DATA PROVISIONED

Description: This field is used to specify the total provisioned data channels in an office. This is a display_only field.

Software Release: 5E18.1 and later

2.28 DATA TOTAL LICENSED

Description: This field is used to specify the total licensed data channels in an office. This is a display_only field.

Software Release: 5E18.1 and later

CHANNEL GROUPS (GP)

Each PSU Shelf can contain up to sixteen logical channel groups, numbered 0 - 15. A PH TYPE must be entered for at least one channel group on this PSUGP form. At least one PROTOCOL HANDLER GROUP entry must be specified.

2.29 PH TYPE

Description: Enter the type of PH circuit pack.

PH3 provides the equivalent functionality of PH2 and can be equipped on the same PSU shelf with PH2.

Valid PH TYPE Entries

Entry	Definition
PH2	Protocol Handler 2 which is a 80186-based PH with 128 channels.
PH3	Software Release: 5E6 and later. Protocol Handler 3 which is a 68030-based PH with 128 channels.
PH4	Software Release: 5E10 and later. Protocol Handler version 4, which is a 68030-based PH with 128 channels.
PH22	Software Release: 5E14 and later. Protocol Handler version 22, which is a 68060-based PH.
PH31	Software Release: 5E16(2) and later. Protocol Handler with 31 channels.
PH33	Software Release: 5E16(2)FR 3 and later. Protocol Handler with 33 channels. This field supports the OIU (Optical Interface Unit) SIP-T (Session Initiation Protocol for Telephones) feature. For more information see Division 2, Section 4A684.
PHV1	Software Release: 5E10 and later. Protocol handler for Voice 1 (8 kilobit vocoder). This enumeration supports the CDMA (Code Division Multiple Access) feature. For more informaton on this feature, see Division 2, Section 8B.
PHV2	Software Release: 5E10 and later.

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	Protocol handler for Voice 2 (13 kilobit vocoder). This enumeration supports the CDMA feature. For more information on CDMA see Division 2, Section 8B.
PHV3	Software Release: 5E11 and later. The PHV3 feature increases the number of voice channels provided per PHV circuit pack from the 12 voice channels on the PHV1 and PHV2 to 16. For more information on this feature see Division 2, Section 8F.
PHV4	Software Release: 5E14 and later. Protocol Handler for Voice 4 provides 32 speech vocoders per circuit board. For more information on this feature see Division 2, Section 8J.
PHV5	Software Release: 5E16 and later. Protocol Handler for Voice 5. Provides 64 vocoders for voice and supports simultaneous voice and data. Refer to Division 2, Section 8AB for more information.
PHV6	Software Release: 5E18(1) and later. Protocol Handler for Voice 6. Provides 128 vocoder and supports the PHV6 feature. Refer to Division 2, Section 7CD.
PHA1	Software Release: 5E10 and later. Protocol handler for ATM (Asynchronous Transfer Mode) 1. This enumeration supports the PHA (Protocol Handler for Asynchronous Transfer) feature. For more information on this feature see Division 2, Section 4A224.
PHA2	Software Release: 5E16(2) and later. Protocol Handler for ATM (Asynchronous Transfer Mode).
PHE2	Software Release: 5E16(2) and later. Protocol Handler Ethernet Version 2.
PHE3	Software Release: 5E19(1) FR 1 and later. Protocol Handler Ethernet Version 3.
PHE	Software Release: 5E21(1) and later. Protocol Handler Ethernet Version 4.
PHV7A	Software Release 5E21(1) and later. Protocol Voice Handler A. Added to support the PHV7 feature.
PHV7AT	Software Release 5E21(1) and later. Protocol Voice Handler AT. Added to support the PHV7 feature.

Data Rules:

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).

For 5E18(1) andd later:

When PH TYPE is "PHV5" or "PHV6" on this form, SERV TYPE on the TKGRP form (5502 Record) must be "CEV13", or "PHV6", respectively.

When PH TYPE is "PHV5" on this form, SERV TYPE on the TKGRP form must not be "ACELP" or "VSELP".

Valid PH TYPE Entries

SERV TYPE	PH TYPE
8K	PHV1, PHV3, PHV4
13K	PHV2, PHV3, PHV4, PHV5
ACELP	PHV4
CEV13	PHV5
EVRC	PHV3, PHV4, PHV5
SME13	PHV6
TACVS	PHV5
VSELP	PHV4

When at least one Multi-Line Hunt Member has a PH TYPE of "PH2", the corresponding PBGRP form LCN

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AGGREGATE and TPC AGGREGATE must be blank and OVERFLOW TREAT must be "NONE".

When TGNs are defined with a TRKCLS of
"PACKET",
"X75P", or
"X75"

on a TKGRP form and the corresponding Trunk Members defined on TRUNK forms have the first three digits of the DEN or the NEN, the first digit of ISCN, and the second two digits of ISCN matching SM, PSU SHELF and GRP, respectively, on a PSUGP form, if the PH TYPE on the PSUGP form is "PH2", the last three digits of the ISCN field on the TRUNK forms must be 000.

PH3:
The number of operational PH3s assigned for a given PSU Shelf minus the number of PH3 Logical groups assigned to that PSU Shelf must be greater than or equal to the entry in the PH3 MIN SPARE fields specified for that PSU Shelf.

Operational PH3s - PH3 Logical Groups = PH3 MIN SPARE

- The number of operational PH3s is obtained from the EQPSUPH form, where PH CLI is 00000200 and EQST is "O".
- The number of PH3 logical groups assigned is obtained from the corresponding PSUGP form where PH TYPE is "PH3".
- The PH3 MIN SPARE field is specified on the EQPSUPH form.

When TGNs are defined with a TRKCLS of
"PACKET",
"X75P", or
"X75"

on a TKGRP form and the corresponding Trunk Members defined on TRUNK forms have the first three digits of the DEN or the NEN, the first digit of ISCN, and the second two digits of ISCN matching SM, PSU SHELF and GRP, respectively, on a PSUGP form, and if the PH TYPE on the PSUGP form is set to "PH3" or "PH4", the last three digits of the ISCN field on the TRUNK forms must be
000
004
008
012
016 or
020.

PH4:
The number of operational PH4s assigned for a given PSU Shelf minus the number of PH4 Logical groups assigned to that PSU Shelf, must be greater than or equal to the PH4 MIN SPARE specified for that PSU Shelf. For a given PSU Shelf:

Operational PH4s - PH4 Logical Groups = PH4 MIN SPARE

- The number of operational PH4s is obtained from the EQPSUPH form where PH CLI is 00001800 and EQST is "O".

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- The number of PH4 logical groups assigned is obtained from the corresponding PSUGP form where PH TYPE is "PH4".
- The PH4 MIN SPARE is specified on the EQPSUPH form.

When TGNs are defined with a TRKCLS of
"PACKET",
"X75P", or
"X75"

on a TKGRP form and the corresponding Trunk Members defined on TRUNK forms have the first three digits of DEN or NEN, the first digit of ISCN, and the second two digits of ISCN matching SM, PSU SHELF and GRP, respectively, on a PSUGP form, and if the PH TYPE on the PSUGP form is set to "PH3" or "PH4", the last three digits of the ISCN field on the TRUNK forms must be
000
004
008
012
016 or
020.

When TRKCLS is "FRBC" on the TKGRP form (5202-1/2/3/4/5/6/7/8/9 Record) and PH TYPE 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 TRKCLS is "PKTPIPE" on the TKGRP form and PH TYPE is "PH4", the channel component (the last three digits) of TRKOE NUMBER on the TRUNK form must be in the range of 000 to 031 for all corresponding trunk members of this trunk group.

For PSUGP forms representing PH4s which have exceeded their capacity for CDMA trunk routing, the count of Packet Pipe Member trunks assigned to all Packet Pipe trunks which use this PH4 may not exceed 32. The number of CDMA calls the PH4 can handle may not exceed 64. The number of possible CDMA calls is dependent upon the presence of Trunk Group SERV TYPEs of:

"13K" or "8K", for 5E10 and 5E11

"13K", "8K", "ACELP170, "DATA", "EVRC", or "VSELP" for 5E12

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.

PH22:
The number of operational PH22s assigned for a given PSU Shelf minus the number of PH22 Logical groups assigned to that PSU Shelf must be greater than or equal to the entry in the PH22 MIN SPARE fields specified for that PSU Shelf.

Operational PH22s - PH22 Logical Groups = PH22 MIN SPARE

- The number of operational PH22s is obtained from the EQPSUPH form, where PH CLI is 00002800 and EQST is "O".

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- The number of PH22 logical groups assigned is obtained from the corresponding PSUGP form where PH TYPE is "PH22".
- The PH22 MIN SPARE field is specified on the EQPSUPH form.

When TRKCLS is "PKTPIPE" on the TKGRP form and PH TYPE 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.

PHVs
ISCNs entered on the TRUNK form, which are associated with a PH TYPE of "PHV1", "PHV2", "PHV3", "PHV4", or "PHV5" on the associated PSUGP form, are exclusively used for Speech Handler trunks via UEN assignment on the TRUNK form (TRKOE where OE TYPE is equal to "U");

The following table indicates which PH TYPEs are valid for a given SERV TYPE:

SERV TYPE	PH TYPE
8K	PHV1, PHV3, PHV4
13K	PHV2, PHV3, PHV4,PHV5
ACELP	PHV3, PHV4
EVRC	PHV3, PHV4,PHV5
VSELP	PHV3, PHV4

The following TGNs (on TKGRP form) are defined with a TRKCLS of "SPCHNDLR". All corresponding trunk members of this trunk group (on TRUNK form), must have a TRKOE entered with an OE TYPE of 'U'. In addition the last three digits of the OE must be in a specific range, dependent upon the type of Protocol Handler for which the specific trunk resides.

PH TYPE	OE
PHV1	000 - 011
PHV2	000 - 011
PHV3	000 - 015
PHV4	000 - 031
PHV5	000 - 63

All members of a trunk group where TRKCLS is "ADT" on the TKGRP form must have TRKOE TYPE equal to "U" on the TRUNK form and TRKOE NUMBER, on the TRUNK form, must correspond to a Protocol Handler Logical Channel Group where PH TYPE equals "PHV1", "PHV2", "PHV3", "PHV4" or "PHV5".

All members of a trunk group where TRKCLS is "A5" or "IS41" on the TKGRP form must have TRKOE TYPE equal to "U" on the TRUNK form and TRKOE NUMBER, on the TRUNK form, must correspond to a Protocol Handler Logical Channel Group with a PH TYPE of "PHV4" or "PHV5".

PHV1
The number of operational PHV1s assigned for a given PSU Shelf minus the number of PHV1 Logical groups assigned to that PSU Shelf, must be greater than or equal to the PHV1 MIN SPARE specified for that PSU Shelf.

In other words, for a given PSU Shelf:
Operational PHV1s - PHV1 Logical Groups >= PHV1 MIN SPARE

- The number of operational PHV1s is obtained from the EQPSUPH form where PH CLI is 00000001 and EQST is "O".
- The number of PHV1 logical groups assigned is obtained from the corresponding PSUGP form where PH TYPE is "PHV1".

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- The PHV1 MIN SPARE is specified on the EQPSUPH form.

PHV2
The number of operational PHV2s assigned for a given PSU Shelf minus the number of PHV2 Logical groups assigned to that PSU Shelf, must be greater than or equal to the PHV2 MIN SPARE specified for that PSU Shelf.

In other words, for a given PSU Shelf:
Operational PHV2s -- PHV2 Logical Groups >= PHV2 MIN SPARE

- The number of operational PHV2s is obtained from the EQPSUPH form where PH CLI is:

00000002 or 00000004 and EQST is "O", for 5E10

00000002 and EQST is "O", for 5E11 and later.

- The number of PHV2 logical groups assigned is obtained from the corresponding PSUGP form where PH TYPE is "PHV2".

- The PHV2 MIN SPARE is specified on the EQPSUPH form.

When the ISCNs entered on the TRUNK form are associated with a PH TYPE of "PHV1", "PHV2", or "PHV3" on the associated PSUGP form, the PHV1s, PHV2s, and PHV3s are exclusively used for Speech Handler trunks via the UEN assignment on the TRUNK form (TRKOE where OE TYPE is equal to "U").

PHV3:
For all Speech Handler trunk group members assigned to channels of a given PHV3 (PHV3 PH TYPE), the corresponding value of SERV TYPE must be consistent (i.e., if one channel of a PHV3 is assigned to a Speech Handler trunk group member where the corresponding TKGRP entry SERV TYPE is "EVRC", all other Speech Handler trunk group members assigned to channels of this same PH must reside in a Speech Handler trunk group where the corresponding TKGRP entry SERV TYPE is "EVRC" as well).

The number of operational PHV3s assigned for a given PSU Shelf minus the number of PHV3 Logical groups assigned to that PSU Shelf, must be greater than or equal to the PHV3 MIN SPARE specified for that PSU Shelf.

In other words, for a given PSU Shelf:
Operational PHV3s - PHV3 Logical Groups >= PHV3 MIN SPARE

PHV4:
For all Speech Handler trunk group members assigned to channels of a given PHV4 (PH TYPE is "PHV4"), the corresponding value of SERV TYPE on the TKGRP form must be consistent. For example, when one channel of a PHV4 is assigned to a Speech Handler trunk group member where the corresponding SERV TYPE entry on the TKGRP form is "ACELP", all other Speech Handler trunk group members assigned to channels of this same PHV must reside in a Speech Handler trunk group where the corresponding SERV TYPE entry on the TKGRP form is "ACELP" also.

PHV5:

When PH TYPE is "PHV5", SM must not be defined on a PSISM form (5920 Record) with ISCN. SHELF and ISCN.CHL GRP equal to PSU SHELF and GRP respectively.

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For all Speech Handler trunk group members assigned to channels of a given PHV5 (PH TYPE is "PHV5"), the corresponding value of SERV TYPE must be the same.

The channel component of TRKOE NUMBER (the last three digits) on the TRUNK form must be 064 - 095 for all members of a trunk group with TRKCLS equal to "ADT" on the TKGRP form when the value in TRKOE NUMBER on the TRUNK form corresponds to a Protocol Handler Logical Channel Group where PH TYPE is "PHV5".

PHE4:

For 5E21(1) and later: When PH TYPE is "PHE4" on the PSUGP form, SM, PSU, PSU SHELF, GRP combination must be defined as SM, PSU, PSU SHELF, CHL GRP combination on the PHGRP form with APP TYPE of "IPSHO" or "IPBPH".

2.30 GRP TYPE

Description: This is a Recent Change only field. It is a display-only field in ODA, therefore, no ODA input is required. It displays the type of digital service (any service requiring a Digital Equipment Number) supported by this channel group.

Data Rules:

For 5E21(1) and later: When CHANNEL GROUP has GRP TYPE of "IPBPH" and PH TYPE of "PHE4", RATE must be 1000 and MODE must be "F" on the ETHIP form (5995 Record).

2.31 AUTO ASSIGN

Description: Allow automatic assignments of ISCNs on MISLINK, DSL and DSLAP? The AUTO ASSIGN field is used to indicate whether automatic ISCN assignment is to be used to assign ISCNs from this channel group. This assignment will only apply to channel groups of type DSLG or NULL. If the assignment is allowed for this channel group, then the channels on this channel group will be potential candidates for automatic ISCN assignment from the following views: ACD Management Information System Link (RC/V 6.11), DSL Assignment (RC/V 23.2), DSL/BRCS Assignment (RC/V 23.8), DSL/USER Copy (RC/V 23.30), and DSLAP (DSL Application Processor Communication Data) (RC/V 24.7).

This field was added for the Automatic ISDN Line Assignment feature. For more information on this feature, see Division 2, Section 1BO.

Software Release: 5E11 and later
Valid Entries: Y, N

Data Rules:

When PH TYPE is not "PH2", "PH3", or "PH4", AUTO ASSIGN must be "N".

```
psugp                              5ESS Switch

SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION

(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT
```

```
*1. SM        ___   AVAILABLE PH2  __   AVAILABLE PHV1 __   AVAILABLE PHV5 __

*2. PSU       0     AVAILABLE PH3  __   AVAILABLE PHV2 __   AVAILABLE PHA1 __

*3. PSU SHELF _     AVAILABLE PH4  __   AVAILABLE PHV3 __

                    AVAILABLE PH22 __   AVAILABLE PHV4 __


                        14. CHANNEL GROUPS (GP)

        PH   GRP  AUTO                     PH   GRP  AUTO

ROW GRP TYPE TYPE ASSIGN RMK      ROW GRP TYPE TYPE ASSIGN RMK

 1   0  ____ ____   _    _________  5   4  ____ ____   _    _________

 2   1  ____ ____   _    _________  6   5  ____ ____   _    _________

 3   2  ____ ____   _    _________  7   6  ____ ____   _    _________

 4   3  ____ ____   _    _________  8   7  ____ ____   _    _________
```

```
psugp                              5ESS Switch           _

SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION

(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT


                        14. CHANNEL GROUPS (GP)

        PH   GRP  AUTO                     PH   GRP  AUTO

ROW GRP TYPE TYPE ASSIGN RMK      ROW GRP TYPE TYPE ASSIGN RMK

  9   8  ____ ____   _    _________  13  12 ____ ____   _    _________

 10   9  ____ ____   _    _________  14  13 ____ ____   _    _________

 11  10  ____ ____   _    _________  15  14 ____ ____   _    _________

 12  11  ____ ____   _    _________  16  15 ____ ____   _    _________
```

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Figure 1 SAMPLE PSUGP FORM 5E15 SOFTWARE RELEASE

```
psugp                              5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

*1. SM         ___     AVAILABLE PH2  __         AVAILABLE PHV1 __
*2. PSU        0       AVAILABLE PH3  __         AVAILABLE PHV2 __
*3. PSU SHELF  _       AVAILABLE PH4  __         AVAILABLE PHV3 __
                       AVAILABLE PH22 __         AVAILABLE PHV4 __
                       AVAILABLE PH31 __         AVAILABLE PHV5 __
                       AVAILABLE PH33 __         AVAILABLE PHA1 __
                                                 AVAILABLE PHA2 __
                                                 AVAILABLE PHE2 __
                                              18. VIRTUAL        N
```

```
psugp                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        19. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                      PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
 1   0  _____ _____   _    _________  5   4  _____ _____   _    _________
 2   1  _____ _____   _    _________  6   5  _____ _____   _    _________
 3   2  _____ _____   _    _________  7   6  _____ _____   _    _________
 4   3  _____ _____   _    _________  8   7  _____ _____   _    _________
```

```
psugp                              5ESS Switch            _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        19. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                      PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
  9   8  _____ _____   _    _________  13  12 _____ _____   _    _________
 10   9  _____ _____   _    _________  14  13 _____ _____   _    _________
 11  10  _____ _____   _    _________  15  14 _____ _____   _    _________
 12  11  _____ _____   _    _________  16  15 _____ _____   _    _________
```

Figure 2 SAMPLE PSUGP FORM 5E16 THROUGH 5E17 SOFTWARE RELEASES

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```
psugp                              5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

*1. SM        ___             AVAILABLE PHV1 __      CDMA CHANNELS IN OFFICE
*2. PSU       0               AVAILABLE PHV2 __    VOICE PROVISIONED    _____
*3. PSU SHELF _               AVAILABLE PHV3 __    VOICE TOTAL LICENSED _____
                              AVAILABLE PHV4 __    DATA PROVISIONED     _____
    AVAILABLE PH2  __         AVAILABLE PHV5 __    DATA TOTAL LICENSED  _____
    AVAILABLE PH3  __         AVAILABLE PHV6 __
    AVAILABLE PH4  __         AVAILABLE PHA1 __
    AVAILABLE PH22 __         AVAILABLE PHA2 __
    AVAILABLE PH31 __         AVAILABLE PHE2 __
    AVAILABLE PH33 __     19. VIRTUAL        N
```

```
psugp                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        24. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                     PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
 1   0  _____ _____   _    _________  5   4  _____ _____   _    _________
 2   1  _____ _____   _    _________  6   5  _____ _____   _    _________
 3   2  _____ _____   _    _________  7   6  _____ _____   _    _________
 4   3  _____ _____   _    _________  8   7  _____ _____   _    _________
```

```
psugp                              5ESS Switch            _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        24. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                     PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
  9   8  _____ _____   _    _________  13  12 _____ _____   _    _________
 10   9  _____ _____   _    _________  14  13 _____ _____   _    _________
 11  10 _____ _____   _    _________  15  14 _____ _____   _    _________
 12  11 _____ _____   _    _________  16  15 _____ _____   _    _________
```

Figure 3 SAMPLE PSUGP FORM 5E18(1) SOFTWARE RELEASE

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```
psugp                              5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

*1. SM        ___             AVAILABLE PHV1 __      CDMA CHANNELS IN OFFICE
*2. PSU       0               AVAILABLE PHV2 __    VOICE PROVISIONED    _____
*3. PSU SHELF _               AVAILABLE PHV3 __    VOICE TOTAL LICENSED _____
                              AVAILABLE PHV4 __    DATA PROVISIONED     _____
    AVAILABLE PH2  __         AVAILABLE PHV5 __    DATA TOTAL LICENSED  _____
    AVAILABLE PH3  __         AVAILABLE PHV6 __
    AVAILABLE PH4  __         AVAILABLE PHA1 __
    AVAILABLE PH22 __         AVAILABLE PHA2 __
    AVAILABLE PH31 __         AVAILABLE PHE2 __
    AVAILABLE PH33 __         AVAILABLE PHE3 __
                           20. VIRTUAL        N
```

```
psugp                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        25. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                      PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
 1   0  _____ _____   _    _________  5   4  _____ _____   _    _________
 2   1  _____ _____   _    _________  6   5  _____ _____   _    _________
 3   2  _____ _____   _    _________  7   6  _____ _____   _    _________
 4   3  _____ _____   _    _________  8   7  _____ _____   _    _________
```

```
psugp                              5ESS Switch            _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                        25. CHANNEL GROUPS (GP)
        PH   GRP  AUTO                      PH   GRP  AUTO
ROW GRP TYPE TYPE ASSIGN RMK       ROW GRP TYPE TYPE ASSIGN RMK
  9   8  _____ _____   _    _________  13  12 _____ _____   _    _________
 10   9  _____ _____   _    _________  14  13 _____ _____   _    _________
 11  10  _____ _____   _    _________  15  14 _____ _____   _    _________
 12  11  _____ _____   _    _________  16  15 _____ _____   _    _________
```

Figure 4 SAMPLE PSUGP FORM 5E19(1) SOFTWARE RELEASES

```
psugp                              5ESS Switch
```

```
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

*1. SM         ___         AVAILABLE PHV1   __         AVAILABLE PHE4 __
*2. PSU        0           AVAILABLE PHV2   __     23. VIRTUAL        N
*3. PSU SHELF  _           AVAILABLE PHV3   __
                           AVAILABLE PHV4   __
    AVAILABLE PH2  __      AVAILABLE PHV5   __
    AVAILABLE PH3  __      AVAILABLE PHV6   __
    AVAILABLE PH4  __      AVAILABLE PHV7A  __
    AVAILABLE PH22 __      AVAILABLE PHV7AT __
    AVAILABLE PH31 __      AVAILABLE PHA1   __
    AVAILABLE PH33 __      AVAILABLE PHA2   __
                           AVAILABLE PHE2   __
                           AVAILABLE PHE3   __
```

```
psugp                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

  CDMA CHANNELS IN OFFICE     DATA TOTAL LICENSED _____
VOICE PROVISIONED    _____
VOICE TOTAL LICENSED _____
DATA PROVISIONED     _____

                           30. CHANNEL GROUPS (GP)
         PH      GRP    AUTO                      PH      GRP    AUTO
ROW GRP  TYPE    TYPE   ASSIGN RMK       ROW GRP TYPE    TYPE   ASSIGN RMK
 1   0   _______ _______  _    _________  5   4   _______ _______  _    _________
 2   1   _______ _______  _    _________  6   5   _______ _______  _    _________
 3   2   _______ _______  _    _________  7   6   _______ _______  _    _________
 4   3   _______ _______  _    _________  8   7   _______ _______  _    _________
```

```
psugp                              5ESS Switch           _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5949)           PSU PROTOCOL HANDLER CHANNEL GROUP ASSIGNMENT

                           30. CHANNEL GROUPS (GP)
         PH      GRP    AUTO                      PH      GRP    AUTO
ROW GRP  TYPE    TYPE   ASSIGN RMK       ROW GRP TYPE    TYPE   ASSIGN RMK
  9   8   _______ _______  _    _________  13  12  _______ _______  _    _________
 10   9   _______ _______  _    _________  14  13  _______ _______  _    _________
 11  10   _______ _______  _    _________  15  14  _______ _______  _    _________
 12  11   _______ _______  _    _________  16  15  _______ _______  _    _________
```

Figure 5 SAMPLE PSUGP FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3K: 5930 RECORD
X75 CLOSED USER GROUP FORM - X75CUG

1. GENERAL

The 5930 Record is available with the 5E8 Software Release. This form assigns the X.75 trunk group CUG (Closed User Group) IIC (International Interlock Code) lists. The lists are identified by a unique CUG List ID number. Each list ID number may have up to 100 unique IICs provisioned. The entire switch can have a maximum of 1600 IICs defined. These can be spread across all provisioned X.75 trunk groups.

This form is only used for X.75 trunk groups.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.14

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 *CUG LIST ID

Description: Enter the CUG LIST ID number associated with a list of CUG IICs (International Interlock Codes). The CUG LIST ID is assigned to X.75 trunk groups and may have up to 100 list entries.
Valid Entries: 1 - 1600

Data Rules:

At least one entry is required in the CUG LIST.

If CUG LIST ID is entered, then an SM must be defined on the EQIM form (5700 Record) with "LOADED" entered in the CONFIGURATION field. X75CUG forms can only be entered for offices that contain an ISDN SM.

CUG LIST

The following fields (Section 2.3 - Section 2.4) define the entries in the CUG LIST. Up to 100 CUGs may be entered in the list. The entries consist of the DNIC (Data Network Identification Code) and the ICN (International Closed User Group Number). These pairs are used in establishing a virtual call by the CPE (Customer Premise Equipment) that are members of a CUG. At least one DNIC/ICN combination must be entered.

2.3 DNIC

Description: Enter the CUG (Closed User Group) DNIC (Data Network Identification Code) of the network of the coordinating administration or RPOA (Recognized Private Operating Agency). The DNIC must be unique.

If all the members of a CUG are within the same network, the DNIC is that of the home network. Otherwise, one of the networks involved is designated as the coordinating administration.
Valid Entries: 1 - 9999

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Data Rules:

If this list element is entered, then the corresponding ICN list element must be entered. Each combination of DNIC and ICN must be unique in the CUG LIST.

2.4 ICN

Description: Enter International CUG number. This number is assigned by the CUG coordinating administration or RPOA. The number must be unique for each CUG belonging to the same network.

No more than 1600 DNIC/ICN combinations can be entered on all to the X75CUG forms in an office.
Valid Entries: 0 - 65535

Data Rules:

If this list element is entered, then the corresponding DNIC list element must be entered. Each combination of DNIC and ICN must be unique in the CUG LIST.

No more than 1600 DNIC/ICN combinations can be entered on all to the X75CUG forms in an office.

```
x75cug                          5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5930)                X75 CLOSED USER GROUP ASSIGNMENTS

*1. CUG LIST ID 1                2. CUG LIST
ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN
  1 3100 00001    11 ____ _____    21 ____ _____    31 ____ _____    41 ____ _____
  2 3101 00002    12 ____ _____    22 ____ _____    32 ____ _____    42 ____ _____
  3 3102 00003    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 ____ _____
```

```
x75cug                          5ESS Switch             _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5930)                X75 CLOSED USER GROUP ASSIGNMENTS

                                 2. CUG LIST
ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN    ROW DNIC  ICN
 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 ____ _____
```

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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 X75CUG FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 3L: 5931 RECORD
PACKET BUSINESS GROUP FORM - PBGRP

1. GENERAL

The 5931 Record is available with 5E8 and later Software Releases. It is used to construct PBGs (Packet Business Groups) that may be assigned to packet Multi-Line Hunt Groups or to packet switching services (D-Channel, On Demand B-Channel, Permanent Packet B-Channel, and X.25 Access on a T1 facility). Any PBG assigned on an MLHG (5110 Record), DSL (5907 Record), DSLUSR (5908 Record), or XAT form (5909 Record) must be defined on this PBGRP form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 23.16.

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 * PB GRP

Description: Enter a PB GRP number to identify the Packet Business Group. This number is assigned to packet Multi-Line Hunt Groups or packet switching services, indicating membership in the Packet Business Group.

Required Field.
Valid Entries: 1 - 100

Data Rules:

A PB GRP must be defined here if it is entered in any of the following fields: PB GRP on the MLHG form, PPB1 PB GRP or PPB2 PB GRP on the DSL form, DPKT PB GRP or ODB PB GRP on the DSLUSR form, or PB GRP on the XAT form.

2.3 ABBR DIAL LENGTH

Description: Enter the number of digits to be used for abbreviated dialing within the group. This feature allows members of the PB GRP to originate calls to other members by using the last n digits of the called DN (Directory Number). The length (n) of the abbreviated code is determined by the ABBR DIAL LENGTH field.

When a call is originated using an abbreviated code, the switch will expand the code to a full packet DN by prefixing the abbreviated digits with the corresponding digits of the calling user's address. All members of the PB GRP must have the same initial digits. If the number expands to 11 digits, the first (11 - n) digits must be the same for all members of the PB GRP.

If the ABBR DIAL LENGTH field is left blank, abbreviated dialing cannot be used by members of the PB GRP.
Valid Entries: 1 - 6

Data Rules:

If a value is entered in this field, all members of the PBG must be assigned to PH3s on the PSUGP form

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(5949 Record).

2.4 ABBR NBR DELIVERY

Description: Should an abbreviated calling number be delivered to the called party when one group member calls another member? If abbreviated number delivery is provisioned ("Y"), and both the calling and called DNs have the same leading digits, then only the trailing digits of the originator's DN are placed in the Calling Address field of the Incoming Call Packet. The number of trailing digits is determined by the ABBR DIAL LENGTH field; therefore, a PB GRP that subscribes to Abbreviated Number Delivery must also subscribe to Abbreviated Dialing.

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this entry is "Y", a value must be entered in ABBR DIAL LENGTH.

2.5 PBG AMA

Description: Should AMA records be generated for intra-PBG calls?

Required Field.
Default: Y
Valid Entries: Y, N

2.6 BILL TN

Description: Enter a 7- or 10-digit DN (Directory Number) to be used for billing record purposes. If the PBG AMA MODULE is set to "Y" on the ISDNOPT form (5509 Record), the BILL TN will be appended to the AMA records of calls for the PB GRP.
Valid Entries: 7 or 10 digits

Data Rules:

If 10 digits are entered, the first three digits must be an NPA where N is 2 - 9, P is 0 - 1, and A is 0 - 9.

BILL TN must be entered when PBG AMA MODULE is "Y" on the ISDNOPT form.

SIMULATED FACILITY GROUP DATA

The following fields (Section 2.7 - Section 2.9) determine if the LCN (Logical Channel Number) and TPC (Throughput Class) usage will be limited for the PBG.

2.7 LCN AGGREGATE

Description: Enter the aggregate logical channel number limit. This field is used to limit the number of LCNs simultaneously utilized by the members of the PB GRP.
Default: 1024
Valid Entries: 1 - 65536

Data Rules:

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If a value is entered in this field, all members of the PBG must be assigned to PH3s on the PSUGP form.

2.8 TPC AGGREGATE

Description: Enter the aggregate throughput class limit in kilobits. This field limits the TPC simultaneously utilized by the members of the PB GRP.
Default: 8192
Valid Entries: 1 - 524288 (kilobits)

Data Rules:

If a value is entered for this field, all members of the PBG must be assigned to PH3s on the PSUGP form.

2.9 OVERFLOW TREAT

Description: Enter the overflow treatment. This entry specifies the treatment that will apply to calls originated or terminated by the PB GRP when one or both of the above aggregate limits is exceeded.

Only as many characters as make the entry unique need to be entered in this field, e.g. enter "N" for "NONE".
Default: BLOCK
Valid Entries:

Valid OVERFLOW TREAT Entries

Entry	Definition
BLOCK	The call will be denied.
NONE	The aggregates are not monitored, so no special call treatment is required.
PREMIUM	If the billable party is a member of the PBG, the AMA record will indicate a premium charge. If the billable party is not a member of the PBG, the call will be denied.

Data Rules:

When OVERFLOW TREAT is "PREMIUM" or "BLOCK", TPC AGGREGATE or LCN AGGREGATE must be entered.

If this entry is other than "NONE", all members of the PBG must be assigned to PH3s on the PSUGP form.

```
pbgrp                          5ESS Switch              _
(5931)                    OFFICE DATA ADMINISTRATION
                            PACKET BUSINESS GROUP


* 1. PB GRP             1
  2. ABBR DIAL LENGTH   _
  3. ABBR NBR DELIVERY  N
  4. PBG AMA            Y
  5. BILL TN            __________
  SIMULATED FACILITY GROUP DATA
  6. LCN AGGREGATE      01024
  7. TPC AGGREGATE      008192
  8. OVERFLOW TREAT     BLOCK
```

Figure 1 SAMPLE PBGRP FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 3M: 5932 RECORD
TSM MONITORING TO MONITORED FORM - TELMON

1. GENERAL

The 5932 Record is available with 5E12 and later Software Releases. It is used to specify the telephone numbers which are being monitored by this ISDN line.

This form supports the Telephone Status Monitor and Select Feature. For more information, see Div. 2 Sec. 4A264.

1.1 Recent Change View

The corresponding Recent Change View for this form is 23.24.

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 * MONITORING TN

Description: Enter the telephone number of the monitoring terminal.
Valid Entries: XXXXXXX or NXXXXXXXXX where N = 2 - 9 and X = 0 - 9

Data Rules:

If the first 3 digits of the 7-digit MONITORING TN(s) on the TELMON 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 MONITORING TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.3 CONFIG GRP

Description: This field is used to indicate the configuration group to which the terminal belongs. This is a no change field.
Valid Entries: 1 - 8 characters

MONITORED LIST

The following fields (Section 2.4) - (Section 2.8) comprise the MONITORED LIST.

2.4 CPE

Description: This field indicates the terminal component. The Component number identifies a unit which is comprised of a maximum of 254 buttons on a Customer Premises Equipment terminal. Up to eight components on a terminal are allowed. This is a no change field.
Valid Entries: 0 - 7

2.5 BUTTON

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Description: This field indicates the button number to which telephone monitor status is assigned. This is a no change field.
Valid Entries: 1 - 254

2.6 TN

Description: Enter the telephone number which is to be monitored by the monitoring ISDN terminal.
Valid Entries: XXXXXXX or NXXXXXXXXX where N = 2 - 9 and X = 0 - 9

Data Rules:

At least one TN must be specified in the MONITORED LIST.

When TN is not entered, DSS and RING must not be entered.

If the first 3 digits of the 7-digit MONITORED TN(s) on the TELMON 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 MONITORED TN(s) must be a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.7 DSS

Description: Is this terminal allowed to use this TSM button for Direct Station Select?
Valid Entries: Y, N

2.8 RING

Description: Is a ping ring to be heard at the monitoring terminal?

Valid Values: Y, N

```
telmon                              5ESS Switch
SCREEN 1 OF 8                OFFICE DATA ADMINISTRATION
(5932)                       TSM MONITORING TO MONITORED

*1. MONITORING TN ___________    CONFIG GRP _________

                           3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 1   _   ___   ___________  _   _     9  _   ___   ___________  _   _
 2   _   ___   ___________  _   _    10  _   ___   ___________  _   _
 3   _   ___   ___________  _   _    11  _   ___   ___________  _   _
 4   _   ___   ___________  _   _    12  _   ___   ___________  _   _
 5   _   ___   ___________  _   _    13  _   ___   ___________  _   _
 6   _   ___   ___________  _   _    14  _   ___   ___________  _   _
 7   _   ___   ___________  _   _    15  _   ___   ___________  _   _
 8   _   ___   ___________  _   _    16  _   ___   ___________  _   _
```

---

telmon 5ESS Switch

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```
SCREEN 2 OF 8              OFFICE DATA ADMINISTRATION
(5932)                     TSM MONITORING TO MONITORED

                          3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 17  _   ___  __________  _   _    27  _   ___  __________  _   _
 18  _   ___  __________  _   _    28  _   ___  __________  _   _
 19  _   ___  __________  _   _    29  _   ___  __________  _   _
 20  _   ___  __________  _   _    30  _   ___  __________  _   _
 21  _   ___  __________  _   _    31  _   ___  __________  _   _
 22  _   ___  __________  _   _    32  _   ___  __________  _   _
 23  _   ___  __________  _   _    33  _   ___  __________  _   _
 24  _   ___  __________  _   _    34  _   ___  __________  _   _
 25  _   ___  __________  _   _    35  _   ___  __________  _   _
 26  _   ___  __________  _   _    36  _   ___  __________  _   _
```

```
telmon                                5ESS Switch
SCREEN 3 OF 8              OFFICE DATA ADMINISTRATION
(5932)                     TSM MONITORING TO MONITORED

                          3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 37  _   ___  __________  _   _    47  _   ___  __________  _   _
 38  _   ___  __________  _   _    48  _   ___  __________  _   _
 39  _   ___  __________  _   _    49  _   ___  __________  _   _
 40  _   ___  __________  _   _    50  _   ___  __________  _   _
 41  _   ___  __________  _   _    51  _   ___  __________  _   _
 42  _   ___  __________  _   _    52  _   ___  __________  _   _
 43  _   ___  __________  _   _    53  _   ___  __________  _   _
 44  _   ___  __________  _   _    54  _   ___  __________  _   _
 45  _   ___  __________  _   _    55  _   ___  __________  _   _
 46  _   ___  __________  _   _    56  _   ___  __________  _   _
```

```
telmon                                5ESS Switch
SCREEN 4 OF 8              OFFICE DATA ADMINISTRATION
(5932)                     TSM MONITORING TO MONITORED

                          3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 57  _   ___  __________  _   _    67  _   ___  __________  _   _
 58  _   ___  __________  _   _    68  _   ___  __________  _   _
 59  _   ___  __________  _   _    69  _   ___  __________  _   _
 60  _   ___  __________  _   _    70  _   ___  __________  _   _
 61  _   ___  __________  _   _    71  _   ___  __________  _   _
 62  _   ___  __________  _   _    72  _   ___  __________  _   _
 63  _   ___  __________  _   _    73  _   ___  __________  _   _
 64  _   ___  __________  _   _    74  _   ___  __________  _   _
 65  _   ___  __________  _   _    75  _   ___  __________  _   _
```

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```
 66  _   ___   __________  _   _    76  _   ___   __________  _   _
```

```
telmon                              5ESS Switch
SCREEN 5 OF 8                OFFICE DATA ADMINISTRATION
(5932)                       TSM MONITORING TO MONITORED

                           3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 77  _   ___   __________  _   _    87  _   ___   __________  _   _
 78  _   ___   __________  _   _    88  _   ___   __________  _   _
 79  _   ___   __________  _   _    89  _   ___   __________  _   _
 80  _   ___   __________  _   _    90  _   ___   __________  _   _
 81  _   ___   __________  _   _    91  _   ___   __________  _   _
 82  _   ___   __________  _   _    92  _   ___   __________  _   _
 83  _   ___   __________  _   _    93  _   ___   __________  _   _
 84  _   ___   __________  _   _    94  _   ___   __________  _   _
 85  _   ___   __________  _   _    95  _   ___   __________  _   _
 86  _   ___   __________  _   _    96  _   ___   __________  _   _
```

```
telmon                              5ESS Switch
SCREEN 6 OF 8                OFFICE DATA ADMINISTRATION
(5932)                       TSM MONITORING TO MONITORED

                           3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
 97  _   ___   __________  _   _   107  _   ___   __________  _   _
 98  _   ___   __________  _   _   108  _   ___   __________  _   _
 99  _   ___   __________  _   _   109  _   ___   __________  _   _
100  _   ___   __________  _   _   110  _   ___   __________  _   _
101  _   ___   __________  _   _   111  _   ___   __________  _   _
102  _   ___   __________  _   _   112  _   ___   __________  _   _
103  _   ___   __________  _   _   113  _   ___   __________  _   _
104  _   ___   __________  _   _   114  _   ___   __________  _   _
105  _   ___   __________  _   _   115  _   ___   __________  _   _
106  _   ___   __________  _   _   116  _   ___   __________  _   _
```

```
telmon                              5ESS Switch
SCREEN 7 OF 8                OFFICE DATA ADMINISTRATION
(5932)                       TSM MONITORING TO MONITORED

                           3. MONITORED LIST
ROW CPE BUTTON TN          DSS RING ROW CPE BUTTON TN          DSS RING
117  _   ___   __________  _   _   127  _   ___   __________  _   _
118  _   ___   __________  _   _   128  _   ___   __________  _   _
119  _   ___   __________  _   _   129  _   ___   __________  _   _
120  _   ___   __________  _   _   130  _   ___   __________  _   _
121  _   ___   __________  _   _   131  _   ___   __________  _   _
```

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```
122  _   ___   __________  _   _   132  _   ___   __________  _   _
123  _   ___   __________  _   _   133  _   ___   __________  _   _
124  _   ___   __________  _   _   134  _   ___   __________  _   _
125  _   ___   __________  _   _   135  _   ___   __________  _   _
126  _   ___   __________  _   _   136  _   ___   __________  _   _
```

```
telmon                              5ESS Switch                 _
SCREEN 8 OF 8                 OFFICE DATA ADMINISTRATION
(5932)                        TSM MONITORING TO MONITORED

                            3. MONITORED LIST
ROW CPE BUTTON TN           DSS RING ROW CPE BUTTON TN           DSS RING
137  _   ___   __________  _   _   144  _   ___   __________  _   _
138  _   ___   __________  _   _   145  _   ___   __________  _   _
139  _   ___   __________  _   _   146  _   ___   __________  _   _
140  _   ___   __________  _   _   147  _   ___   __________  _   _
141  _   ___   __________  _   _   148  _   ___   __________  _   _
142  _   ___   __________  _   _   149  _   ___   __________  _   _
143  _   ___   __________  _   _   150  _   ___   __________  _   _
```

Figure 1 SAMPLE TSM MONITORING TO MONITORED FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 3N: 5987 RECORD
INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT - IPPROC

1. GENERAL

1.1 IP (Internet Protocol) Processor Assignment

The IP (Internet Protocol) Processor Assignment form provides the capability to provision up to five IP addresses and subnet masks, and associated default values for IP, TCP (Transmission Control Protocol) and UDP (User Datagram Protocol) parameters to a processor (SM or PH).

This form supports the following applications:

CALEA TCP/IP Core feature, Division 2, Section 4A509, 5E14 and later;

PCF (Packet Control Function), Division 2, Section 8AC, 5E16(1) FR1 and later;

SIP for Packet Trunking using SCTP Transport protocol, see Division 2, Section 4A684, 5E16(2) FR3 and later;

UDP Transport Layer for SIP feature, Division 2, Section 1DE, 5E16(2) FR5 and later;

OIU-IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308), Division 2, Section 7BX, 5E16(2) and later.

IP (Internet Protocol) Backhaul feature (99-5E-8530), Division 2, Section 7CN, 5E19(1) FR 1 and later.

IP Soft Handoff feature (99-5E-8688), Division 2, Section 4A774, 5E20(1) and later.

For SIP-T (PHE2S) and PCF (PHE2E) PHs, this form is used to associate a IP address to a specific PH and its channel group. This IP address is internal to the 5ESS and is not known to any IP network external to the 5E. The ETHIP form is used to associate an IP address to the a PH's ethernet interface for external IP network interconnection.

The IP/UDP/TCP ASSIGMENTS (Sections 2.8 to 2.24) defined on this form are default values used for this processor and associated interfaces. Applications and their transport layer forms may provide application specific settings for these assignments that override the defaults.

1.2 Recent Change View

The corresponding Recent Change View for IPPROC is 33.1.

NOTE: Updates to the values on the Recent Change View may not apply to established sockets. To ensure changes are applied, the processor can be removed and restored to service. Depending upon the application this can cause a temporary service interruption.

2. FORM ENTRIES - 5987 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

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2.2 *PROCESSOR ID

Description: This field specifies the ID of the processor. For SM, the SM number. For PH, the number of the SM on which the PH resides.
Valid Entries: 1 - 192

Data Rules:

The PROCESSOR ID(s) assigned on the IPPROC form, must be defined on a EQIM form with EQSTATUS of "O".

For 5E19 and later, when PROCESSOR ID and QUALIFIER 3 are defined on a PHGRP (5892 Record) as SM and SHELF/CHL GRP (respectively) with APP TYPE "IPBPH", the above combination must have LOCAL IP ADDR and IP SUBNET MASK set to zero on the IPPROC form.

2.3 *PROCESSOR TYPE

Description: This field specifies the type of processor.
Valid Entries:

Enter SM or PH
For 5E16(2) and later, enter OIU, PH, or SM (Future MH, OKP)

- **WARNING:** For 5E16(2) and later, set REASSEM TIMER, ICMP ERR CNT, MTU ENABLE, MTU DISC, TCP MSS, TCP START PORT, TCP DEF TTL, UDPCHKSUM EN, UDP DEF TTL, REFRESH INTRVL, and CLEANUP INTRVL to blank for PROCESSOR TYPE "OIU".

Data Rules:

When PROCESSOR TYPE is "SM", QUALIFIER 2 must not be entered.

When PROCESSOR TYPE is "SM", QUALIFIER 3 must not be entered.

When PROCESSOR TYPE is "PH", QUALIFIER 2 must be entered.

When PROCESSOR TYPE is "PH", QUALIFIER 3 must be entered.

When the IPPROC form has PROCESSOR TYPE set to "PH", the PROCESSOR ID must be defined on a EQPSU form as SWITCHING MODULE. Also, the corresponding QUALIFIER 2 entry must be assigned on the same EQPSU form as SWITCHING MODULE and COM ADDR.

When the IPPROC form has PROCESSOR TYPE set to "PH", the combination of PROCESSOR ID (SM) and QUALIFIER 3 (SHELF/CHL GRP) must be defined on at least one of the following forms:

AMLBDSL

DSL

DSLAP

DSLUSR

ETHIP

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MISLINK

OSPSDSL

PCRGRP

PHGRP

PSISM

RTERM

XAT

TRUNK

where TRKCLS is "EDSL", "IFTERM", "IFOPER", "PACKET", "PCF", "X75", or "X75P". The PROCESSOR ID must also match the SM or the three left-most digits of OE. QUALIFIER 3 must match the three left-most digits of ISCN or SHELF/CHL GRP entered on the same form. In the case of the Trunk form where TRKCLS is "PCF", QUALIFIER 3 must match digits 5-7 of the TRKOE.

When the IPPROC forms have PROCESSOR TYPE set to "PH", and PROCESSOR ID (SM) and QUALIFIER 3 (SHELF/CHL GRP) are defined on a PSUGP form as SM and PSU SHELF/GRP respectively, the corresponding PH TYPE on the PSUGP form must be "PH3", "PH4", "PHE2", "PHE3", or "PHE4".

For 5E16(2) and later:

when PROCESSOR TYPE is "PH",

QUALIFIER 2 must be entered.

QUALIFER 3 must be entered.

when PROCESSOR TYPE is "OIU",

QUALIFIER 2 must be 0 - 7.

QUALIFIER 3 must be 0 - 9.

ROW 2 - 5 of IP ADDRESS must be blank.

MTU ENABLE and UPD CHKSUM must be blank.

OVLD TRIG must be 80 - 95.

UDP START PORT must be 1024 - 61503.

when PROCESSOR TYPE is "PH" or "SM":

OVLD TRIG must be blank.

PM GROUP must be blank.

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UDP START PORT must be 32768 - 65535.

2.4 QUALIFIER 2

Description: This field specifies the second qualifier of the processor address. For a PH, this field is the COM ADDR (PSU community address) found on the EQPSU form, Packet Switch Unit. For an SM, leave blank.
Valid Entries: For a PH enter a number from 0 - 254.

Data Rules:

The corresponding QUALIFIER 2 entry must be assigned on the same EQPSU form as COM ADDR.

2.5 QUALIFIER 3

Description: This field specifies the third qualifier of the processor's address. For an SM, leave blank.
Valid Entries:

For a PH, enter PSU shelf 0-4 and channel group 00-15.
For 5E16(2) and later, blank, or enter 000 - 009 for an OIU protection group or PSU shelf (0 - 4) and channel group (00 - 1) for PH.

Data Rules:

QUALIFIER 3 must have GRP TYPE "DSLG", "TRK", "IPBPH", or "NPH", on the PSUGP form.

QUALIFIER 3 must have PH TYPE of "PH3", "PH4", "PHE2", "PHE3", or "PHE4", on the PSUGP form.

IP ADDRESS

IP (Internet Protocol) addresses consisting of a Local IP address and subnet mask. At least one IP address must be specified. Refer to Section 2.6 - Section 2.7 for individual field information.

2.6 LOCAL IP ADDR

Description: Enter the Local IP Address which is to be assigned to the processor.
Valid Entries: For LOCAL IP ADDR set 1, for Class A, enter 001 - 126, for Class B, enter 128 - 191, or for Class C, enter 192 - 223. For LOCAL IP ADDR set 2, 3, and 4, enter 0 - 254; 000.000.000.000 or 255.255.255.255 is not allowed. If one set is blank they all must be blank.

Data Rules:

When LOCAL IP ADDR is entered, IP SUBNET MASK must be entered.

LOCAL IP ADDR must be 001.000.000.001 - 126.255.255.254, 128.001.000.001 - 191.254.255.254 or 192.000.001.001 - 223.255.254.254.

When LOCAL IP ADDR set 1 is 001 - 126, IP SUBNET MASK must be 255.000.000.000 or 255.192.000.000 - 255.255.255 .000.

When LOCAL IP ADDR set 1 is 128 - 191, IP SUBNET MASK must be 255.255.000.000 or 255.255.192.000 - 255.255.255 .000.

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When LOCAL IP ADDR set 1 is 192 - 223, IP SUBNET MASK must be 255.255.255.000 or 255.255.255.192 - 255.255.255 .240.

least one LOCAL IP ADDR must be entered in the IP ADDRESS list.

For 5E19(1) FR 1 and later, when the IPBH (Internet Protocol Backhaul) feature is active, the LOCAL IP ADDR must not be entered .

LOCAL IP ADDRs in the IP ADDRESS list must be unique.

2.7 IP SUBNET MASK

Description: Enter the IP Subnet Mask to be assigned to the processor.
Valid Entries: Blank, or enter 255 for IP subnet mask set 1. Blank, or enter 0 - 255 for IP subnet mask set 2, 3, and 4.

Data Rules:

When IP SUBNET MASK is entered, LOCAL IP ADDR must be entered.

IP PARAMETER ASSIGNMENT

IP (Internet Protocol) Parameter Assignment defines the default values to be associated with this IP processor and network interfaces defined to the processor. Refer to Section 2.8 - Section 2.11 for individual field information.

2.8 REASSEM TIMER

Description: Enter the time in seconds that the processor waits to process a packet.
Default: 60
Valid Entries: 1 - 255 seconds

2.9 ICMP ERR CNT

Description: Enter the number of bytes returned in ICMP (Internet Control Message Protocol) error reporting message for this processor.

Software Release: 5E16(2) and later
Default: 64
Valid Entries: 20 - 255 bytes.

2.10 MTU ENABLE

Description: Is the flag to indicate the maximum transmission unit discovery algorithm enabled?
Default: N
Valid Entries: Y, N

Data Rules:

When NEAR ENDPOINTs are entered on the SCTPNEPD form (5886 Record), MTU ENABLE and IP FRAGMENT must be "Y" on the IPPROC form for PROCESSOR ID equal to GSM on the SCTPNEPD form for which the NEAR ENDPOINTs exist, and PROCESSOR TYPE must be set to "PH".

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2.11 MTU DISC

Description: Enter the interval in seconds at which the path MTU (Maximum Transmission Unit) discovery algorithm tries to increase the MTU.
Default: 30
Valid Entries: 10 - 10000 seconds

2.12 OVLD TRIG

Description: This field is used to indicate the IP overload control occupancy trigger. The OVLD TRIG field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). See Division 2, Section 7BX.

Software Release: 5E16(2) and later
Default: 95
Valid Entries: Blank, or enter 80 - 95

TCP PARAMETER ASSIGNMENT

TCP (Transmission Control Protocol) Parameter Assignment. Refer to Section 2.13 - Section 2.15 for individual field information.

2.13 TCP MSS

Description: Enter the maximum segment size for the transmission control protocol in bytes.
Default: 536
Valid Entries: 108 - 8000 bytes

2.14 TCP START PORT

Description: Enter the lowest automatically allocated port number for a transmission control protocol connection. Modifying the TCP START PORT field may result in the tear down of any/all currently existing sockets.
Default: 49152
Valid Entries: Enter a number from 32768 - 65535.

2.15 TCP DEF TTL

Description: Enter the number of intermediate hops a packet can make before being discarded (one hop is assumed to take one second).
Default: 255
Valid Entries: Enter 1 to 255.

UDP PARAMETER ASSIGNMENT

UPD (User Datagram Protocol) Parameter Assignment. Refer to Section 2.16 - Section 2.18 for individual field information.

2.16 UDP CHK SUM EN

Description: Is the datagram protocol checksum option enabled?
Default: Y

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Valid Entries: Y, N

2.17 UDP START PORT

Description: Enter the lowest automatically allocated port number for a datagram protocol connection. Modifying the UDP START PORT field may result in the tear down of any/all currently existing sockets.

NOTE: When the processor type is OIU, this field is used to define the start port for UDP bearer paths.

Default: 49152
Valid Entries:

Enter a number from 32768 to 65535.
For 5E16(2) and later, enter a number from 0 to 65535.

2.18 UDP DEF TTL

Description: Enter the number of intermediate hops a packet can make before being discarded (one hop is assumed to take one second).
Default: 255
Valid Entries: Enter 1 to 255.

ARP PARAMETER ASSIGNMENT

The following fields, Section 2.19 - Section 2.20 supports:

PCF (Packet Control Function), Division 2, Section 8AC, 5E16(1) FR1 and later;

SIP for Packet Trunking feature using SCTP Transport protocol, Division 2, Section 4A684, 5E16(2) FR3 and later;

IP Backhaul feature (99-5E-8530), Division 2, Section 7CN, 5E19(1) FR 1 and later.

2.19 REFRESH INTRVL

Description: This field identifies the interval (in minutes) for ARP (Address Resolution Protocol) information to be unconditionally refreshed from cache.

Software Release: 5E16(2) and later
Required Field.
Default: 20
Valid Entries: 0 - 60

2.20 CLEANUP INTRVL

Description: This field indicates the interval (in minutes) for ARP information to be discarded from the cache.
Required field.

Software Release: 5E16(2) and later
Valid Entries: 0 - 60

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2.21 PM GROUP

Description: This field is used to assign a performance monitoring group to the PPPLK associated with this OIU PG.

Software Release: 5E16(2) and later
Valid Entries: Enter up to 8 alphanumeric characters.

Data Rules:

For 5E16(2) and later, PM GROUP must not equal:

"PPPLNKG", "OSTEGDF", "OSTS1GD", "OVT1DEF", "OVT1GDF", "ODS1EDF", "ODS1SDF", "ODS1EGD", "ODS1SGD", "OSTS1DEF", "OSTS3CDF", "OC3CSTDF", "OSTS3CG", "OC3CSTDF", or "OC3CSTG".

2.22 ICMP ERR GEN

Description: This field indicates whether or not error generation is enabled or disabled.
Required field.

Software Release: 5E16(2) FR 3 and later
Default: Y
Valid Entries: Y, N

2.23 IP FRAGMENT

Description: This field indicates whether or not the IP (Internet Protocol) fragmentation is enabled or disabled. When enabled IP messages being sent can be fragmented and received, IP fragments are reassembled.
Required field.

Software Release: 5E16(2) FR 3 and later
Default: Y
Valid Entries: Y, N

Data Rules:

The IP FRAGMENT must be set to "Y" for a PH that belongs to a processor group on the PCRGRP form for either the SIP for Packet Trunking feature (99-5E-8382) using SCTP Transport or the UDP Transport for SIP feature (99-5E-8581).

For 5E19(1) FR 1 and later, IP Fragment must be set to N, for the IP Backhaul feature (99-5E-8530).

2.24 MTU INTVL AFT FAIL

Description: This field indicates the interval between attemped MTU(Maximum Transmission Unit) increases, when the previous attempt to increase the PMTU {Previous MTU) has failed. This field supports the SIP (Session Initiation Protocol) for Packet Trunking feature.
Required field.

Software Release: 5E16(2) FR 3 and later
Default: 600
Valid Entries: 30 - 2400

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```
ipproc                              5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5987)             INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

  *1. PROCESSOR ID   ___
  *2. PROCESSOR TYPE __
(*)3. QUALIFIER 2    ___
(*)4. QUALIFIER 3    ___

           5. IP ADDRESS
ROW LOCAL IP ADDR   IP SUBNET MASK
 1  ___.___.___.___ ___.___.___.___
 2  ___.___.___.___ ___.___.___.___
 3  ___.___.___.___ ___.___.___.___
 4  ___.___.___.___ ___.___.___.___
 5  ___.___.___.___ ___.___.___.___
```

```
ipproc                              5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5987)             INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

IP PARAMETER ASSIGNMENT     UDP PARAMETER ASSIGNMENT
16. REASSEM TIMER 60        23. UDP CHKSUM EN  Y
17. ICMP ERR CNT  64        24. UDP START PORT 49152
18. MTU ENABLE    N         25. UDP DEF TTL    255
19. MTU DISC      30

TCP PARAMETER ASSIGNMENT
20. TCP MSS        536
21. TCP START PORT 49152
22. TCP DEF TTL    255
```

Figure 1 SAMPLE IPPROC FORM 5E14 THROUGH 5E15 SOFTWARE RELEASES

```
ipproc                              5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5987)             INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

  *1. PROCESSOR ID   001
  *2. PROCESSOR TYPE OIU
(*)3. QUALIFIER 2    0
(*)4. QUALIFIER 3    000

           5. IP ADDRESS
ROW LOCAL IP ADDR   IP SUBNET MASK
 1  ___.___.___.___ ___.___.___.___
```

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```
 2  ___.___.___.___ ___.___.___.___
 3  ___.___.___.___ ___.___.___.___
 4  ___.___.___.___ ___.___.___.___
 5  ___.___.___.___ ___.___.___.___
```

```
ipproc                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5987)             INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

IP PARAMETER ASSIGNMENT     UDP PARAMETER ASSIGNMENT
16. REASSEM TIMER ___       24. UDP CHKSUM EN  _
17. ICMP ERR CNT  ___       25. UDP START PORT 49152
18. MTU ENABLE    _         26. UDP DEF TTL    ___
19. MTU DISC      _____
20. OVLD TRIG     95        ARP PARAMETER ASSIGNMENT
                            27. REFRESH INTRVL __
TCP PARAMETER ASSIGNMENT    28. CLEANUP INTRVL __
21. TCP MSS        ____
22. TCP START PORT _____    29. PM GROUP _________
23. TCP DEF TTL    ___
```

```
ipproc                              5ESS Switch           _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5987)             INTERNET PROTOCOL (IP) PROCESSOR ASSIGNMENT

30. ICMP ERR GEN       Y
31. IP FRAGMENT        Y
32. MTU INTVL AFT FAIL 600
```

Figure 2 SAMPLE IPPROC FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 3O: 5988 RECORD
INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT - IPINTF

1. GENERAL

1.1 Internet Protocol (IP) Interface Assignment

The Internet Protocol (IP) Interface Assignment form provides the capability to provision up to five IP addresses and subnet masks, and associated IP parameters to an internet interface. This form was created to support the CALEA TCP/IP Core feature. For more information on this feature see Division 2, Section 4A509. This feature was first made available in the 5E14 Software Release.

1.2 Recent Change View

The corresponding Recent Change View for IPINTF is 33.2.

2. FORM ENTRIES - 5988 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 PKT TN

Description: Enter the packet switching telephone number. that can either be an individual packet TN on a DSL (PPB1 or PPB2) or an XAT TN.
Valid Entries: Enter a 7 or 10 digit telephone number of the form NXXXXXX or NXXNXXXXXX, where N is a number from 2 to 9 and X is a number from 0 to 9.

Data Rules:

When PKT TN(s) are assigned on the IPINTF form, the PKT TN(s) must be defined on a DSL form (as PPB1 TN where PPB1 MLHG/TERM are left blank or as PPB2 TN where PPB2 MLHG/TERM are left blank), or on a XAT form (as PKT TN where PKT MLHG and TERM NBR are left blank).

When the PKT TN and LCN(s) are assigned on the IPINTF form, the PKT TN and LCN(s) must be defined on a PSPVC form with FCL TYPE equal to "INET".

2.3 PKT MLHG

Description: This field specifies the group number for a packet switching multiline hunt group.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: Blank or 1 - 8191

Data Rules:

When the PKT MLHG/TERM(s) are assigned on the IPINTF form, they must be defined on a DSL form (as PPB1 MLHG/TERM or PPB2 MLHG/TERM), or on a XAT form (as PKT MLHG/TERM NBR).

When the PKT MLHG/PKT MEMB and LCN(s) are assigned on the IPINTF form, the PKT MLHG/PKT MEMB and LCN(s) must be defined on a PSPVC form with FCL TYPE equal to "INET".

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2.4 PKT MEMB

Description: This field specifies the number of a particular member within the specified packet switching multiline hunt group. The PKT MLHG and PKT MEMB combination can either be an individual packet service on a DSL (PPB1 or PPB2) or an XAT.
Valid Entries: 1 - 2015

2.5 TGN

Description: This field specifies the group number for the trunk associated with the IP interface.
Valid Entries: 1 - 4000

Data Rules:

When the TGN, TGN MEMB and LCN(s) are assigned on the IPINTF form, the TGN, TGN MEMB and LCN(s) must be defined on a X75PVC form with FCL TYPE equal to "INET".

2.6 TGN MEMB

Description: This field specifies the number of a particular trunk member within the specified trunk group. Enter a number from 0 to 23.
Valid Entries: 0 - 23

2.7 OE

Description: This is a no change field that contains one alphabetic character followed by an equipment number of the following format:

Valid OE Type Entries

Entry	Definition
A	INEN [IDLC (Integrated Digital Loop Carrier) Network Equipment Number]
E	AIUEN [Digital (U Circuit) AIU (Access Interface Unit) Equipment Number]
G	GEN [GAMA-IDCU (Integrated Digital Carrier Unit) Equipment Number]
I	ISDN [Digital (U & T Card) ISLU (Integrated Services Line Unit) Equipment Number]
K	LCKEN [Digital (T & U Circuit) ISLU2 Integrated Services Line Unit 2 Equipment Number]
U	Software Release 5E16(2) and later. XAT PH Channel Group Member.

For type A, INEN [Integrated Digital Loop Carrier (IDLC) Network Equipment Number], enter (1-192) (0-7) (01-99) (0001-2048) where:

Type A, INEN [IDLC (Integrated Digital Loop Carrier) Network Equipment Number]

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Digital Network Unit-Synchronous Optical Network	DNUS	X	0-7
Remote terminal	RT	XX	01-99
Remote Terminal	LINE	XXXX	0001-2048

For type E, AIUEN [Digital (U Circuit) AIU (Access Interface Unit) Equipment Number], enter (1-192) (000-104) (00-19) (00-15) where:

Type E, AIUEN [Digital (U Circuit) AIU (Access Interface Unit) Equipment Number]

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Access Interface Unit Two	AIU	XXX	000-104
Pack Number	PACK	XX	00-19

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Circuit number	CKT	XX	00-15

For RT GEN [GAMA-Integrated Digital Carrier Unit (IDCU) Equipment Number], enter (1-192) (00-42) (01-31) (0001-2048) where:

Type G, GEN [GAMA-IDCU (Integrated Digital Carrier Unit) Equipment Number]

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

For ISDN [Digital (U & T Card) Integrated Services Line Unit (ISLU) Equipment Number], enter (1-192) (0-7) (00-15) (00-31) where:

Type I, ISDN [Digital (U & T Card) ISLU (Integrated Services Line Unit) Equipment Number]

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

For LCKEN [Digital (T & U Circuit) Integrated Services Line Unit 2 (ISLU2) Equipment Number], enter (1-192) (00-42) (00-15) (0-7) (00-07) where:

Type K, LCKEN [Digital (T & U Circuit) ISLU2 Integrated Services Line Unit 2 Equipment Number]

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Integrated Services Line Unit Two	ISLU2	XX	00-42
line group card	LGC	X	00-15
line board	L Board	X	0-7
Line Circuit	L Circuit	XX	00-07

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

2.8 ISCN

Description: This is a no change field. This field specifies the ISCN to which the address is to be assigned.
Valid Entries: SU shelf [0-4] CHL group [00-15] PH chan [000-127]

2.9 LCN

Description: This field defines the Logical Channel Number for the packet switching interface.
Valid Entries: 1 - 27

2.10 INTERFACE NAME

Description: This field specifies the name of the interface.
Valid Entries: Enter name starting with an alphanumeric character followed by 4 to 18 characters including ".", "_" or "-".

Data Rules:

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The INTERFACE NAMEs entered on the IPINTF form cannot be duplicated on one or more IPINTF forms.

IP ADDRESS

Enter the gateway or interface addresses consisting of an IP address and subnet mask. At least one IP address must be specified. Refer to Section 2.11 - Section 2.12 for individual field information.

2.11 GATEWAY IP ADDR

Description: IP address to be assigned to the interface.
Valid Entries: For Gateway IP address set 1, for Class A enter 001 - 126, for Class B 128 - 191, or for Class C 192 - 223. For Gateway IP address set 2, 3, and 4, enter 0 - 255; 000.000.000.000 or 255.255.255.255 is not allowed.

Data Rules:

When GATEWAY IP ADDR is entered, IP SUBNET MASK must be entered.

GATEWAY IP ADDR must be 001.000.000.001 - 126.255.255.254, 128.001.000.001 - 191.254.255.254 or 192.000.001.001 - 223.255.254.254.

When GATEWAY IP ADDR set 1 is 001 - 126, IP SUBNET MASK must be 255.000.000.000 or 255.192.000.000 - 255.255.255 .000.

When GATEWAY IP ADDR set 1 is 128 - 191, IP SUBNET MASK must be 255.255.000.000 or 255.255.192.000 - 255.255.255 .000.

When GATEWAY IP ADDR set 1 is 192 - 223, IP SUBNET MASK must be 255.255.255.000 or 255.255.255.192 - 255.255.255 .240.

At least one GATEWAY IP ADDR must be entered in the IP ADDRESS list.

GATEWAY IP ADDRs in the IP ADDRESS list must be unique.

The GATEWAY IP ADDR(s) entered on the ETHIP and IPINTF forms cannot equal the LOCAL IP ADDR(s) entered on the IPPROC form, all GATEWAY IP ADDR(s) and LOCAL IP ADDR(s) must be unique in the office.

2.12 IP SUBNET MASK

Description: IP subnet mask to be assigned to the interface.
Valid Entries: Enter 255 for IP subnet mask set 1. Enter 0 - 255 for IP subnet mask set 2, 3, and 4.

Data Rules:

When IP SUBNET MASK is entered, GATEWAY IP ADDR must be entered.

2.13 MCAST ADDR

Description: This field defines the multicast address for the interface.
Valid Entries: Blank, or enter 224 - 239 for Multicast IP address set 1. Blank, or enter 0 - 255 for Multicast IP address set 2, 3, and 4.

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2.14 MTU SIZE

Description: This field defines the maximum number of bytes per transfer from this interface.

Required field.
Default: 256
Valid Entries: 128 - 1600

2.15 CALEA IN USE

Description: Is this interface in use by the CALEA Application?

Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

The Communication Assistance for Law Enforcement Act is a secured feature that must be purchased by the office before the CALEA IN USE field on the IPINTF form can be set to "Y".

```
ipintf                              5ESS Switch                 _
                                OFFICE DATA ADMINISTRATION
(5988)                 INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT

(*)1. PKT TN            ___________                      12. IP ADDRESS
(*)2. PKT MLHG          _____                  ROW GATEWAY IP ADDR IP SUBNET MASK
(*)3. PKT MEMB          _____                   1  ___.___.___.___ ___.___.___.___
(*)4. TGN               _____                   2  ___.___.___.___ ___.___.___.___
(*)5. TGN MEMB          __                      3  ___.___.___.___ ___.___.___.___
      OE                _ ____________          4  ___.___.___.___ ___.___.___.___
      ISCN              _______                 5  ___.___.___.___ ___.___.___.___
 *10. LCN               ___
 #11. INTERFACE NAME    ________________________  23. MCAST ADDR     ___.___.___.___
                                                  28. MTU SIZE     256
                                                  29. CALEA IN USE N
```

Figure 1 SAMPLE IPINTF FORM 5E14 AND LATER SOFTWARE RELEASES

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SEC. 3P: 5989 RECORD
INTERNET PROTOCOL (IP) ROUTING TO INTERFACE - IPROUT

1. GENERAL

1.1 Internet Protocol (IP) Interface Routing to Interface

The Internet Protocol (IP) Interface Routing form provides the capability to provision an IP gateway between an external IP destination and a local IP interface. This form was created to support the CALEA TCP/IP Core feature. For more information on this feature see Division 2, Section 4A509. This feature was first made available in the 5E14 Software Release.

1.2 Recent Change View

The corresponding Recent Change View for IPROUT is 33.3.

2. FORM ENTRIES - 5989 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 DEST IP ADDR

Description: This field specifies one of the network or host IP addresses that can be reached via this route.
Valid Entries: For Destination IP address set 1, enter 001 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class C, or 000. For Destination IP address set 2, 3, and 4, enter 0 - 255. All four sets must be entered; 000.000.000 or 255.255.255.255 is not allowed.

Data Rules:

When DEST IP ADDR is entered on this form it must be zero for any SM/PSU/SHELF/CHL GRP combination entered on the PHGRP form (5892 Record) withh APP TYPE equal to "IPBPH", "IPSHO" or "NPH".

When DEST IP ADDR is entered on this form, it must not be zero for any SM/PSU/SHELF/CHL GRP combination defined on the ETHIP form (5995 Record) which are missing either on the PHGRP form, or the PCRGRP form (5883 Record).

2.3 INTERFACE NAME

Description: This field specifies the name of an interface.
Valid Entries: Enter name starting with an alphanumeric character followed by 4 to 18 characters including ".", "_" or "-".

Data Rules:

The INTERFACE NAMEs entered on the IPROUT form must be defined on a ETHIP or IPINTF form with the same GATEWAY IP ADDR(s) on the IPINTF only. If a ETHIP form,was found, then the GATEWAY IP ADDR on the IPROUT form must be defined on the same ETHIP form (where INTERFACE NAMEs match) as GATEWAY IP ADDRESS.

If a IPINTF form was found, then the GATEWAY IP ADDR on the IPROUT form must be defined on the

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same IPINTF form (where INTERFACE NAMEs match) as one of the GATEWAY IP ADDR(s) from the list.

The KEY FIELDS lists the keys for the ETHIP or IPINTF form. If neither form was found with the same INTERFACE NAME value then KEY FIELDS will be blank."

2.4 NET OR HOST

Description: This field indicates if the destination IP address given is a network or host IP address.
Default: NET
Valid Entries: Enter NET or HOST.

Data Rules:

When NET OR HOST is "NET", DEST IP ADDR must be [001 - 126].000.000.000, [128.001 - 191.254].000.000 or [192.000.001 - 223.255.254].000.

When NET OR HOST is "HOST", DEST IP ADDR must be 001.000.000.001 - 126.25 5.255.254, 128.001.000.001 - 191.254.255.254 or 192.000.001.001 - 223.255.254.254.

When NET OR HOST is "NET" and DEST IP ADDR set 1 is 001 - 126, IP SUBNET MASK must be 255.000.000.000 or 255.192.000.000 - 255.255.255 .000.

When NET OR HOST is "NET" and DEST IP ADDR set 1 is 128 - 191, IP SUBNET MASK must be 255.255.000.000 or 255.255.192.000 - 255.255.255 .000.

When NET OR HOST is "NET" and DEST IP ADDR set 1 is 192 - 223, IP SUBNET MASK must be 255.255.255.000 or 255.255.255.192 - 255.255.255 .240.

When NET OR HOST is "NET", IP SUBNET MASK must be entered.

2.5 IP SUBNET MASK

Description: This field specifies the subnetwork mask associated with the destination IP address.
Default: set 1 is 255 for "NET", blank for "HOST"
Valid Entries: Blank, or enter 255 for IP subnet mask set 1. Blank, or enter 0 - 255 for IP subnet mask set 2, 3, and 4.

Data Rules:

If set 1 is blank, all must be blank.

If set 1 is known, all must be known.

2.6 GATEWAY IP ADDR

Description: This field specifies the IP address of the gateway through which data is sent to the destination.
Valid Entries: For Gateway IP address set 1, enter 001 - 126 for Class A, 128 - 191 for Class B, or 192 - 223 for Class C. For Gateway IP address set 2, 3, and 4, enter 0 - 255.

2.7 ROUTE METRIC

Description: This field specifies the route metric associated with the routing path. This is used for load balancing in multi-routing.
Default: 1

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Valid Entries: Enter 1 - 255

```
iprout                              5ESS Switch            _
                              OFFICE DATA ADMINISTRATION
(5989)              INTERNET PROTOCOL (IP) ROUTING TO INTERFACE

 *1. DEST IP ADDR      ___.___.___.___
 *6. INTERFACE NAME _____________________
  7. NET OR HOST     NET
  8. IP SUBNET MASK    ___.___.___.___
#13. GATEWAY IP ADDR   ___.___.___.___
 18. ROUTE METRIC    1
```

Figure 1 SAMPLE IPROUT FORM 5E14 AND LATER SOFTWARE RELEASES

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SEC. 3Q: 5991 RECORD - PACKET SWITCH UNIT GATEWAY PSUGW

1. GENERAL

Available for 5E15 FR4 and later, this form supports the PSU (Packet Switching Unit) CA (Community Address) Expansion (99-5E-8012) feature. It is used to assign a gateway community address to a PSU in a wireless network. See Division 2, Section 7BH.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.26.

2. FORM ENTRIES - 5991 RECORD

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 SM number.
Valid Entries: 0 - 192

2.3 *PSU

Description: Enter the PSU (Packet Switch Unit) number.
Default: 0
Valid Entries:

5E15 and earlier: 0
5E16 and later: 0 - 1

GATEWAY ADDRESSES

The following fields (Section 2.4 - Section 2.7) allow assignment of gateway community addresses to a PSU. All of these fields are removed for 5E18(1) and later.

2.4 NETWORK 0 (This field is removed for 5E17(1) and later.)

Description: Enter the Gateway Address of Network 0.
Valid Entries: Blank, or 1 - 254

Data Rules:

NETWORK 0 and 1 cannot be identical.

NETWORK 0 and 2 cannot be identical.

NETWORK 0 and 3 cannot be identical.

2.5 NETWORK 1 (This field is removed for 5E17(1) and later.)

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Description: Enter the Gateway Address of Network 1.
Valid Entries: Blank, or 1 - 254

Data Rules:

NETWORK 1 and 2 cannot be identical.

NETWORK 1 and 3 cannot be identical.

2.6 NETWORK 2 (This field is removed for 5E17(1) and later.)

Description: Enter the Gateway Address of Network 2.
Valid Entries: Blank, or 1 - 254

Data Rules:

NETWORK 2 and 3 cannot be identical.

2.7 NETWORK 3 (This field is removed for 5E17(1) and later.)

Description: Enter the Gateway Address of Network 3.
Valid Entries: Blank, or 1 - 254

2.8 FEATURE ACTIVE (This field is removed for 5E18(1) and later.)

Description: Is the PSU Community Expansion feature active?
Default: N
Valid Entries: Y, N

Data Rules:

When Y is entered,

there must be a matching PSULNK form for each GATEWAY PHA where CON TYPE is "ATMGW".

all of the PSUGW forms in the 5ESS office must have the same SUBNETWORK ID.

one of the gateway addresses must be entered.

For 5E17(1) FR1 and later, for every PSUGW form where FEATURE ACTIVE is "Y", there must be a matching ATMLNK (5592 Record) or PSULNK (5057 Record) form with CHANNELS CON TYPE set to "ATMNET".

2.9 SUBNETWORK ID (This field is removed for 5E18(1) and later.)

Description: Enter the Subnetwork ID number.
Default: 0
Valid Entries: 0 - 3

Data Rules:

When SUBNETWORK is 0, NETWORK 0 must not be entered.

When SUBNETWORK is 1, NETWORK 1 must not be entered.

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When SUBNETWORK is 2, NETWORK 2 must not be entered.

When SUBNETWORK is 3, NETWORK 3 must not be entered.

```
psugw                              5ESS Switch           _
                             OFFICE DATA ADMINISTRATION
(5991)                         PSU COMMUNITY EXPANSION

*1. SM  ___              7. FEATURE ACTIVE N
*2. PSU 0                8. SUBNETWORK ID  0

GATEWAY ADDRESSES
 3. NETWORK 0 ___
 4. NETWORK 1 ___
 5. NETWORK 2 ___
 6. NETWORK 3 ___
```

Figure 1 SAMPLE PSUGW FORM 5E15 FR4 THROUGH 5E16(2) SOFTWARE RELEASES

```
psugw                              5ESS Switch           _
                             OFFICE DATA ADMINISTRATION
(5991)                         PSU COMMUNITY EXPANSION

*1. SM  ___              7. FEATURE ACTIVE N
*2. PSU 0

GATEWAY ADDRESSES
 3. NETWORK 0 ___
 4. NETWORK 1 ___
 5. NETWORK 2 ___
 6. NETWORK 3 ___
```

Figure 2 SAMPLE PSUGW FORM 5E17(1) FR 1 AND LATER SOFTWARE RELEASES

```
psugw                              5ESS Switch           _
                             OFFICE DATA ADMINISTRATION
(5991)                         PSU COMMUNITY EXPANSION

*1. SM  ___     7. FEATURE ACTIVE N
*2. PSU 0
```

Figure 3 SAMPLE PSUGW FORM 5E18(1) AND LATER SOFTWARE RELEASES

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SEC. 3R: PACKET SWITCH COMPONENT - PSCOMP

1. GENERAL

This form is available with the 5E16 and later Software Releases. It is used to define hardware assignments within packet components.

1.1 Recent Change View

This form has no 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 NUMBER

Description: This field is used to indicate the Switching Module number associated with the component.

Software Release: 5E16 and later
Required Field.
Valid Entries: 1 - 192

Data Rules:

The combination of SM NUMBER, COMPONENT TYPE, and COMPONENT ID on this form, must be defined on the MGPCOMP form (6921 Record).

2.3 * COMPONENT TYPE

Description: This field identifies the type of component.

Software Release: 5E16 and later
Required Field.
Valid Entries:

Valid TMS COMPONENT TYPE Entries

Entry	Description
LAG	Line Access Gateway
TAG	Trunk Access Gateway

Data Rules:

When COMPONENT TYPE is "LAG":

only slots 1 - 14 may be entered.

CARD TYPE must not be "STS-1".

When COMPONENT TYPE is "TAG":

only slots 11 - 14 may be entered.

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CARD TYPE must be blank or "STS-1".

2.4 * COMPONENT ID

Description: This field identifies the ID of the component assigned to the packet line/trunk.

Software Release: 5E16 and later
Required Field.
Valid Entries: 1 - 105

2.5 # COMPONENT NAME

Description: This field identifies the name of the component.

Software Release: 5E16 and later
Required Field.
Valid Entries: 1 - 20 characters

Data Rules:

COMPONENT NAME can not be duplicated on another PSCOMP form.

2.6 EMS NAME

Description: This field is the element manager name assigned to the LAG/TAG.

Software Release: 5E16 and later
Valid Entries: 1 - 11 characters

2.7 NEXT LAG

Description: This field indicated the next lag in the daisy chain.

Software Release: 5E16 and later
Valid Entries: 1 - 20 characters

2.8 PREVIOUS LAG

Description: This field indicated the previous lag in the daisy chain.

Software Release: 5E16 and later
Valid Entries: 1 - 20 characters

2.9 CLEI

Description: The Common Language Equipment Identifier field is a 10 character alphanumeric code assigned to telecommunication equipment.

Software Release: 5E16 and later
Valid Entries: blank or 1 - 10 characters

2.10 CARD TYPE

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Description: This field indicates the type of card provisioned in a particular slot of the component. This is a Display Only field.

Software Release: 5E16 and later
Valid Entries: COIN, ISDN BRI, POTS, POTS+ADSL, or STS-1

```
pscomp                          5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
                            PACKET SWITCH COMPONENT

*1. SM NUMBER       ___                                    SLOT
*2. COMPONENT TYPE  ___                      SLOT CARD      SLOT CARD
*3. COMPONENT ID    ___                      NO   TYPE      NO   TYPE
#4. COMPONENT NAME  _________________________  1  __________  9  __________
 5. EMS NAME        ____________               2  __________ 10  __________
                                               3  __________ 11  __________
                                               4  __________ 12  __________
                                               5  __________ 13  __________
                                               6  __________ 14  __________
                                               7  __________ 15  __________
                                               8  __________ 16  __________
```

Figure 1 SAMPLE PSCOMP FORM 5E16 AND LATER SOFTWARE RELEASES

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SEC. 3S: 5995 RECORD
INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT - ETHIP

1. GENERAL

This form provides the capability to provision IP addresses, subnet masks, and associated IP parameters to an ethernet interface. This form supports:

PCF (Packet Control Function) on PHE2, Division 2, Section 8AC, 5E16(1) FR1 and later;

SIP for Packet Trunking using SCTP Transport protocol on PHE2S, Division 2, Section 4A684, 5E16(2) FR3 and later;

UDP Transport Layer for SIP feature on PHE2S, Division 2, Section 700, 5E16(2) FR5 and later.

1.1 Recent Change View

The corresponding Recent Change View for ETHIP is 33.4.

2. FORM ENTRIES - 5995 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: This field identifies the Switching Module number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 1 - 192

Data Rules:

SM, PSU, SHELF and CHANNEL GROUP must correspond to a Protocol Handler Logical Channel Group with a PH TYPE of "PHE2", "PHE3" , or "PHE4" on the PSUGP form (5949 Record).

When SM, PSU, SHELF, and CHANNEL GROUP matches the first seven digits of the TRKOE on the TRUNK form (5204 Record), and the TRKGRP form (5202 Record) has TRKCLS equal to "PCF", RATE must be 100, MODE must be "F", and MTU SIZE must be 1500 on the ETHIP form.

2.3 * PSU

Description: This field identifies the Packet Switching Unit associated with the SM.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 or 1

2.4 * SHELF

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Description: This field specifies the Shelf number where the PSU is located.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 - 4

2.5 * CHANNEL GROUP

Description: This field specifies the Channel Group number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 - 15

2.6 # INTERFACE NAME

Description: This field specifies the name of the interface.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 1 - 19 alphanumeric characters

Data Rules:

The INTERFACE NAMEs entered on the IPINTF form must be unique in a given office.

2.7 # PHE LINK

Description: This field specifies the Protocol Handler Ethernet link number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 1 - 48

Data Rules:

PHE LINK cannot be duplicated for a given combination of SM/PSU on this and the PCRGRP form (5883 Record).

The total number of ETHIP forms cannot exceed 48 per SM.

For 5E16(2) FR 3 and later, when PHE LINK is greater than 10, the ACT field for SFID 684 on the SFSYS form (5713-1 Record) must be "Y".

The maximum number per PSU, of IP Backhaul PHE LINKs assigned on this form cannot exceed 20.

The maximum number per PSU, of IP Soft Hand-off PHE LINKs assigned on this form cannot exceed 2.

2.8 # GATEWAY IP ADDR

Description: This field specifies the IP Address to be assigned to the interface. For 5E16(2) FR 3 and later, this field is being replaced with 2 new fields and renamed GATEWAY IP ADDRESS 1 and GATEWAY IP ADDRESS 2.

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2.9 # GATEWAY IP ADDR 1

Description: This field specifies the IP Address 1 to be assigned to the interface.

Software Release: 5E16(1) and later
Required Field.
Valid Entries:

Set 1 (001 - 126 for Class A; 128 - 191 for Class B; or 192 - 223 for Class C)
Set 2,3, and 4 (0 - 255)

Data Rules:

For 5E16(2) FR 3 and later, GATEWAY IP ADDRESSes on the ETHIP and IPINTF forms (5988 Record), and the LOCAL IP ADDRs on the IPPROC form (5987 Record) must be unique in a given office.

GATEWAY IP ADDRESS 1 cannot be equal to GATEWAY IP ADDRESS 2.

When the PH belongs to a process or Group on the PCRGRP form, the values populated must be the same for both PHs in the PCRGRP.

NOTE: The SIP for Packet Trunking feature (99-5E-8382) using. SCTP transport will make use of the GATEWAY IP ADDR 1 for the first network path of SCTP's Multi-Homing capability. For the UDP Transport for SIP feature (99-5E-8581), GATEWAY IP ADDR 1 would be populated and GATEWAY IP ADDR 2 is blank.

2.10 # IP SUBNET MASK

Description: This field specifies the IP Subnet Mask to be assigned to the interface. For 5E16(2) FR 3 and later, this field is being replaced with 2 new fields and renamed IP SUBNET MASK 1 and IP SUBNET MASK 2.

2.11 # IP SUBNET MASK 1

Description: This field specifies the IP Subnet Mask 1 to be assigned to GATEWAY IP ADDRESS 1 of the interface.

Software Release: 5E16(2) and later
Required Field.
Valid Entries:

Set 1 (255)
Set 2, 3, and 4 (0 -255)

Data Rules:

When the PH belongs to a process or Group on the PCRGRP form, the values populated must be the same for both PHs in the PCRGRP.

2.12 # GATEWAY IP ADDR 2

Description: This field specifies the IP Address 2 to be assigned to the interface.

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Software Release: 5E16(2) and later
Valid Entries:

Set 1 (001 - 126 for Class A; 128 - 191 for Class B; or 192 - 223 for Class C)
Set 2,3, and 4 (0 - 255)

Data Rules:

For 5E16(2) FR 3 and later, GATEWAY IP ADDRs must not match LOCAL IP ADDRs and all GATEWAY IP ADDRs and LOCAL IP ADDRs must be unique in a given office.

When GATEWAY IP ADDR 2 is 001 - 126, IP SUBNET MASK 2 must be 255.000.000.000 - 255.255.255.252.

A Class A GATEWAY IP ADDR 2 cannot be XXX.000.000.000 or XXX.255.255.

When GATEWAY IP ADDR 2 is 128 - 191, IP SUBNET MASK 2 must be 255.255.000.000 - 255.255.255.252.

A Class B GATEWAY IP ADDR 2 cannot be XXX.XXX.000.000 or XXX.XXX.255.

When GATEWAY IP ADDR 2 is 192 - 223, IP SUBNET MASK 2 must be 255.255.255.000 - 255.255.255.252.

A Class C GATEWAY IP ADDR 2 cannot be XXX.XXX.XXX.000 or XXX.XXX.XXX.255.

When GATEWAY IP ADDRESS 2 is blank, IP SUBNET MASK 2 must be blank.

When the PH belongs to a process or Group on the PCRGRP form, the values populated must be the same for both PHs in the PCRGRP.

When any combination of SM/PSU/SHELF/CHL GRP is entered on the PHGRP form (5892 Record), the GATEWAY IP ADDRESS 2 and IP SUBNET MASK 2 fields must be entered on this form.

2.13 # IP SUBNET MASK 2

Description: This field specifies the IP Subnet Mask 2 to be assigned GATEWAY IP ADDRESS 1 of the interface.

Software Release: 5E16(2) and later
Valid Entries:

Set 1 (255)
Set 2, 3, and 4 (0 -255)

Data Rules:

When the PH belongs to a process or Group on the PCRGRP form, the values populated must be the same for both PHs in the PCRGRP.

2.14 MCAST ADDR

Description: This field defines the Multicast Address for the interface.
Valid Entries: Blank, or enter 224 - 239 for Multicast IP ddress set 1. Blank, or enter 0 - 255 for Multicast IP address set 2, 3, and 4.

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2.15 MTU SIZE

Description: This field defines the maximum number of bytes per transfer from this interface.

Software Release: 5E16(1) and later
Required Field.
Default: 1500
Valid Entries: 256 - 1600

Data Rules:

MTU SIZE must be 1500 for any SM+PSU+SHELF+CHANNEL GROUP combination entered on the PCRGRP form (5883 Record).

This field must be 1500 for any SM/PSU/SHELF/CHL GRRP combination entered on the PHGRP form (5892 Record).

ETHERNET DATA

The following fields, Section 2.16 - Section 2.17 , are used to indicate the rate and mode of the data flow for individual field information.

2.16 # RATE

Description: This field is used to indicate the rate associated with the speed of the ethernet link.

Software Release: 5E16(1) and later
Required Field.
Default: A
Valid Entries: A, 10, 100 Mbps

Data Rules:

When RATE is "A" then MODE must also be "A".

When any SM/PSU/SHELF/CHL GRP combination is entered on this form, the RATE field must be 100 or A.

2.17 # MODE

Description: This field identifies the mode used for the data flow of the ethernet connection.
Valid Entries:

Valid MODE Entries	
Entry	**Definition**
A	Auto
F	Full

Data Rules:

When MODE is "A" then RATE must also be "A".

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```
(5995)       ETHERNET INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT

*1. SM             ___                    #7. GATEWAY IP ADDRESS ___.___.___.___
*2. PSU            _                     #12. IP SUBNET MASK     ___.___.___.___
*3. SHELF          _
*4. CHANNEL GROUP  __                     17. MCAST ADDR ___.___.___.___
#5. INTERFACE NAME ____________________    22. MTU SIZE   0256
#6. PHE LINK       __                     23. RATE       100
                                         #24. MODE       _
```

Figure 1 SAMPLE ETHIP FORM 5E16(1) SOFTWARE RELEASE

```
ethip                              5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5995)       ETHERNET INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT

*1. SM             ___
*2. PSU            _
*3. SHELF          _
*4. CHANNEL GROUP  __
#5. INTERFACE NAME ____________________
#6. PHE LINK       __
```

```
ethip                              5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5995)       ETHERNET INTERNET PROTOCOL (IP) INTERFACE ASSIGNMENT

 #7. GATEWAY IP ADDRESS 1 ___.___.___.___
#12. IP SUBNET MASK 1     ___.___.___.___
 17. GATEWAY IP ADDRESS 2 ___.___.___.___
 22. IP SUBNET MASK 2     ___.___.___.___

 27. MCAST ADDR ___.___.___.___
 32. MTU SIZE   0256
 33. RATE       A
 34. MODE       A
```

Figure 2 SAMPLE ETHIP FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 3T: 5996 RECORD
PCF OFFICE PARAMETERS - PCFOPT

1. GENERAL

The PCF (Packet Control Function) Office Parameters form is used to assign office-wide PCF parameters. This form was created to support the PCF on PHE2 (PH30 with Ethernet Link) feature. For more information on this feature see Division 2, Section 8AC. This feature was first made available in the 5E16(1) FR1 (Feature Release 1) Software Release.

1.1 Recent Change View

The corresponding Recent Change View for PCFOPT is 34.1.

2. FORM ENTRIES - 5996 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * KEY

Description: The KEY field is the key for accessing the appropriate relation. In this case it is always 0.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0

2.3 UDP PORT

Description: This field specifies the User Datagram Protocol port number. It is used for both source and destination.

Software Release: 5E16(1) and later
Valid Entries: 0 - 65535

2.4 MS FWD DORM BUF

Description: This field specifies the MS (Mobile Station) Forward Dormancy Buffer number.

Software Release: 5E16(1) and later
Valid Entries: 0 - 32

2.5 BUSY REACT TIMER

Description: This field specifies the Busy Reactivation Timer number.

Software Release: 5E16(1) and later
Valid Entries: 0 - 255

2.6 PDSN RETRY

Description: This PDSN (Packet Data Serving Node) Retry field specifies the number of attempts to resend.

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Software Release: 5E16(1) and later
Valid Entries: 1 - 10

2.7 PDSN OOS INTRVL

Description: This field specifies the PCF PDSN out-of-service (OOS) periodic interval used to retry new connections to a failed PDSN.

Software Release: 5E16(1) and later
Default: 600
Valid Entries: 5 - 65535

2.8 PDSN LIFETIME

Description: This field specifies the PDSN life time in seconds.

Software Release: 5E16(1) and later
Default: 1800
Valid Entries: 600 - 65535

2.9 PDSN TIME TOL

Description: This field specifies the PDSN time tolerance in seconds.

Software Release: 5E16(1) and later
Default: 7
Valid Entries: 1 - 255

2.10 ACCOUNT WAIT TMR

Description: The PCF Accounting Wait Timer field specifies the delay from the actual time the mobile begins using the airlink.

Software Release: 5E16(1) and later
Default: 3
Valid Entries: 1 - 10

2.11 TREGREQ TIMEOUT

Description: This field is the maximum time the PCF waits for a PDSN reply message from another PDSN.

Software Release: 5E16(1) and later
Default: 2000
Valid Entries: 1000 - 5000

2.12 TREGREQ DELAY TMR

Description: The Tregreq Delay Timer field represents the delay timer for the ECP (Executive Cellular Processor) dormant link layer connection closure.

Software Release: 5E16(1) and later
Default: 10

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Valid Entries: 0 - 30

2.13 BS/MSC ID

Description: This field specifies the BS/MSC (Base Station/Mobile Switching Center) identification to be sent to the PDSN in registration request messages.

Software Release: 5E16(1) and later
Valid Entries: 0 - 12 characters

2.14 MAX OPEN SESSIONS

Description: The PCF session field specifies the total number of open (active + dormant) sessions for each PCF in the office.

Software Release: 5E16(1) and later
Valid Entries: 0 - 100000

2.15 PER MIN THRESHOLD

Description: This field specifies the PCF A11/A10 PER (Protocol Error Record) minimum threshold.

Software Release: 5E16(1) and later
Default: 100
Valid Entries: 1 - 4094

2.16 PER MAX THRESHOLD

Description: This field specifies the PCF A11/A10 PER (Protocol Error Record) maximum threshold.

Software Release: 5E16(1) and later
Default: 400
Valid Entries: 2 - 4095

2.17 PER LEAK COUNT

Description: This field specifies the PER Leaky Bucket leak count.

Software Release: 5E16(1) and later
Default: 50
Valid Entries: 0 - 511

GRE PARAMETERS

The following fields, Section 2.18 Section 2.20 , are used to indicate the information about the Generic Routing Encapsulation fields.

2.18 GRE MAX BUFFER

Description: This field specifies the max PER (Protocol Errror Record) flow sequence buffer for the GRE protocol. This is a no change field.

Software Release: 5E16(1) and later

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Default: 500
Valid Entries: 100 - 2500

2.19 GRE OUT OF ORDER

Description: This field specify the out of timeout for the GRE protocol. This is a no change field.

Software Release: 5E16(1) and later
Default: 6
Valid Entries: 1 - 200

2.20 GRE PKT DISC LIMIT

Description: This field specifies the consecutive packet discard limit for GRE protocol.

Software Release: 5E16(1) and later
Default: 5
Valid Entries: 1 - 32766

2.21 CELL ID ENABLE

Description: This field indicates whether or not the Cell ID is enabled.

Software Release: 5E16(1) and later
Default: N
Valid Entries: Y, N

2.22 CELL FACE ENABLE

Description: This field indicates whether or not the Cell Face is enabled.

Software Release: 5E16(1) and later
Default: N
Valid Entries: Y, N

When CELL FACE ENABLE is "Y", CELL ID ENABLE must also be "Y".

2.23 CELL INFO ORDER

Description: This field informs the PCF how to structure the BSID Cell Identifier Type 2 Octets when CELL ID ENABLE is set to "Y".

Software Release: 5E17(1) and later
Default: N
Valid Entries: Y, N

Y (to switch order)
N (to not switch order)

2.24 ACT TIME PARM

Description: This field determines if the Active Timer Parameter in the Active Stop Airlink record is sent using

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the IS-835 or IS-835-B standard.

Software Release: 5E17(1) and later
Default: N
Valid Entries: Y, N

Y (IS-835-B)
N (IS-835))

2.25 REVERSE BUFFERING

Description: This field indicates whether or not reverse buffering is enabled.

Software Release: 5E19(1) and later
Default: N
Valid Entries: Y, N

AUTOMATIC PING

These fields (Section 2.26 - Section 2.29) support the PCF (Packet Control Function) OA&M Enhancements feature. For more information on this feature see, Division 2, Section 8AQ. .

2.26 AUTO PING ENABLE

Description: This field indicates whether or not auto ping is enabled.

Software Release: 5E19(1) and later
Default: N
Valid Entries: Y, N

2.27 BYTES PING MSG

Description: This field indicates the number of bytes to send in a ping message.

Software Release: 5E19(1) and later
Default: 56
Valid Entries: 1 - 126

2.28 TIMEOUT REPLY

Description: This field indicates the time used awaiting a reply from the destinaton IP (Identification Point).

Software Release: 5E19(1) and later
Default: 5
Valid Entries: 1 - 10 seconds

2.29 REPEAT MESSAGE

Description: This field indicates the number of attempts to send a message to the destinaton IP.

Software Release: 5E19(1) and later
Default: 3

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Valid Entries: 1 - 5

2.30 HDLC FRAMING

Description: This field indicated whether or not the HDLC (High Data Levell Link Control) is on or off.

Software Release: 5E16(2) and later
Default: N
Valid Entries: Y, N

2.31 PDSN SELECT ALG

Description: This field allows the customer to define the order that the PDSNs (Packet Data Service Neworks) will be placed in the PDSN list used by call processing

Software Release: 5E19(1) and later
Default: CUSTOM0
Valid Entries:

Valid PDSN SELECT ALG Entries

Entry	Definition
CUSTOM0	Selection on IP list in order
CUSTOM1	IP list using order number from the PDSNCNFG form (5997 Record).

Data Rules:

When PDSN SELECT ALG on this form is "CUSTOM1" ORDER NUMBER on the PDSNCNFG form (5997 Record) must be entered.

2.32 PDSN OOS OVRD

Description: This field indicates whether the PDSNs in the office are marked as OOS (Out of Service) or Degraded

Software Release: 5E19(1) and later
Default: N
Valid Entries: Y, N

PCF SECURITY

These fields (Section 2.33 - Section 2.35) support the PCF (Packet Control Function) Security on PHE2 (Protocol Handler Ethernet 2) feature. For more information on this feature see, Division 2, Section 8AI. All of these fields are no_change fields.

2.33 PCF PHE2 LIMIT

Description: This field specifies the number of allowed PCF PHEs in the office.

Software Release: 5E17(1) FR 2 and later
Valid Entries: No Change

2.34 PCF PHE2 PROV

Description: This field specifies the number of provisioned PCF PHEs in the office.

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Software Release: 5E17(1) FR 2 and later
Valid Entries: No Change

2.35 PCF PHE2 PSWD

Description: This field provides the password for changing PCF PHE LIMIT.

Software Release: 5E17(1) FR 2 and later
Valid Entries: No Change

APIT PARAMATERS

These fields (Section 2.36 - Section 2.41) support the 3G-1X HSPD (High Speed Packet Data) Performance for Chatty Applications feature. For more information on this feature see, Division 2, Section 8AL.

2.36 INIT TIMER

Description: This field is used to specify the initial timer value of APIT (Adaptive Packet Inactivity Timer) when it is recalculated by PCF.

Software Release: 5E17(1) FR 3
Default: 15,000
Valid Entries: 5000 - 60000 milliseconds

2.37 INACT TIME

Description: This field is used to specify the inactivity time for APIT after it is initialized.

Software Release: 5E17(1) FR 3
Default: 10,000
Valid Entries: 0 - 60000 milliseconds

2.38 REACT COST

Description: This field is used to specify the cost of call release and reactivation when PCF recalculates the APIT.

Software Release: 5E17(1) FR 3
Default: 7500
Valid Entries: 1000 - 30000 milliseconds

2.39 LOCAL MARGIN

Description: This field is used to specify the margin of a locality when PCF recalculates the APIT.

Software Release: 5E17(1) FR 3
Default: 2000
Valid Entries: 0 - 10000 milliseconds

2.40 INTER ARRIVAL

Description: This field is used to specify the average chatty inter-arrival time when PCF recalculates the APIT.

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Software Release: 5E17(1) FR 3
Default: 5000
Valid Entries: 0 - 25000 milliseconds

2.41 STEP DOWN SIZE

Description: This field is used to specify the step size for timer reduction when PCF recalculates the APIT.

Software Release: 5E17(1) FR 3
Default: 10
Valid Entries: 1 - 50 percent

2.42 REACT RETRY

Description: The Network Reactivation Attempts field is used to specify the maximum number of PCF (Packet Control Function) initiated reactivation attempts of a dormant session are allowed before flushing the Forward Dormancy Buffer. This field supports the PCF (Packet Control Function) PHE2 Initiated Reactivation Retry Enhancements feature (99-5E-8715). For more information see Division 2, Section 8AR.

Software Release: 5E18(1) and later
Default: 4
Valid Entries: 1 - 11

```
pcfopt                            5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

 *1. KEY               0              13. MAX DORM SESSIONS 020000
  2. UDP PORT          699
  3. MS FWD DORM BUF   08                   PER PARAMETERS
  4. BUSY REACT TMR     30            14. PER MIN THRESHOLD 100
  5. PDSN RETRY        3              15. PER MAX THRESHOLD 0400
  6. PDSN OOS INTRVL   00600          16. PER LEAK COUNT     50
  7. PDSN LIFETIME     01800
  8. PDSN TIME TOL     7                     GRE PARAMETERS
  9. ACCOUNT WAIT TMR  3              18. GRE OUT OF ORDER   500
 10. TREGREQ TIMEOUT   2000           19. GRE MAX BUFFER     6
 11. TREGREQ DELAY TMR 10             20. GRE PKT DISC LIMIT 5
#12. BSID              ____________
```

```
pcfopt                            5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

21. CELL ID ENABLE   N
22. CELL FACE ENABLE N
```

Figure 1 SAMPLE PCFOPT FORM 5E16(1) THROUGH 5E16(2) SOFTWARE RELEASES

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```
pcfopt                              5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

 *1. KEY               0                    MAX OPEN SESSIONS 100000
  2. UDP PORT          699
  3. MS FWD DORM BUF   08                     PER PARAMETERS
  4. BUSY REACT TMR     30             14. PER MIN THRESHOLD 100
  5. PDSN RETRY        3               15. PER MAX THRESHOLD 0400
  6. PDSN OOS INTRVL   00600           16. PER LEAK COUNT     50
  7. PDSN LIFETIME     01800
  8. PDSN TIME TOL     7                      GRE PARAMETERS
  9. ACCOUNT WAIT TMR  3               18. GRE OUT OF ORDER   500
 10. TREGREQ TIMEOUT   2000            19. GRE MAX BUFFER     6
 11. TREGREQ DELAY TMR 10              20. GRE PKT DISC LIMIT 5
#12. BSID              _____________
```

```
pcfopt                              5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

21. CELL ID ENABLE   N      30. HDLC FRAMING    N
22. CELL FACE ENABLE N      31. PDSN SELECT ALG CUSTOM0
23. CELL INFO ORDER  N      32. PDSN OOS OVRD   N
24. ACT TIME PARM    N
                                      PCF SECURITY
25. REVERSE BUFFERING N         PCF PHE LIMIT ___
                                PCF PHE PROV  ___
     AUTOMATIC PING             PCF PHE PSWD  _________________
26. AUTO PING ENABLE N
27. BYTES PING MSG    56       APIT PARAMETERS
28. TIMEOUT REPLY     5     36. INIT TIMER 15000
29. REPEAT MESSAGE    3     37. INACT TIME 10000
```

```
pcfopt                              5ESS Switch           _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

38. REACT COST     7500
39. LOCAL MARGIN   5000
40. INTER ARRIVAL  5000
41. STEP DOWN SIZE 10
```

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```
42. HHO ENABLE   N
43. APING BYTES  56
44. APING TMOUT  5
45. APING REPEAT 3
46. AUTO PING    N
```

Figure 2 SAMPLE PCFOPT FORM 5E17(1) THROUGH 5E18(1) SOFTWARE RELEASES

```
pcfopt                            5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

 *1. KEY                0                    MAX OPEN SESSIONS 100000
  2. UDP PORT           699
  3. MS FWD DORM BUF    08                     PER PARAMETERS
  4. BUSY REACT TMR      30              14. PER MIN THRESHOLD 100
  5. PDSN RETRY         3               15. PER MAX THRESHOLD 0400
  6. PDSN OOS INTRVL    00600           16. PER LEAK COUNT     50
  7. PDSN LIFETIME      01800
  8. PDSN TIME TOL      7                      GRE PARAMETERS
  9. ACCOUNT WAIT TMR   3               18. GRE OUT OF ORDER   500
 10. TREGREQ TIMEOUT    2000            19. GRE MAX BUFFER     6
 11. TREGREQ DELAY TMR  10              20. GRE PKT DISC LIMIT 5
#12. BSID               ____________
```

```
pcfopt                            5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5996-1)         PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

21. CELL ID ENABLE   N      30. HDLC FRAMING    N
22. CELL FACE ENABLE N      31. PDSN SELECT ALG CUSTOM0
23. CELL INFO ORDER  N      32. PDSN OOS OVRD   N
24. ACT TIME PARM    N
                                      PCF SECURITY
25. REVERSE BUFFERING N         PCF PHE LIMIT ___
                                PCF PHE PROV  ___
     AUTOMATIC PING             PCF PHE PSWD  _________________
26. AUTO PING ENABLE N
27. BYTES PING MSG    56       APIT PARAMETERS
28. TIMEOUT REPLY     5      36. INIT TIMER 15000
29. REPEAT MESSAGE    3      37. INACT TIME 10000
```

```
pcfopt                            5ESS Switch           _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
```

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```
(5996-1)        PACKET CONTROL FUNCTION (PCF) OFFICE PARAMETERS

38. REACT COST     7500
39. LOCAL MARGIN   5000
40. INTER ARRIVAL  5000
41. STEP DOWN SIZE 10

42. APING BYTES  56
43. APING TMOUT  5
44. APING REPEAT 3
45. AUTO PING    N

46. REACT RETRY 4
```

Figure 3 SAMPLE PCFOPT FORM 5E19(1) SOFTWARE RELEASE

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SEC. 3U: 5996-2 RECORD
PCF PDSN IP ASSIGNMENT - PCFPDSN

1. GENERAL

The PCF (Packet Control Function) IP Assignment form provides the capability to provision a PDSN (Packet Data Serving Node) IP address to PCF. This form was created to support the PCF on PHE2 (PH30 with Ethernet Link) feature. For more information on this feature see Division 2, Section 8AC. This feature was first made available in the 5E16(1) FR1 (Feature Release 1) Software Release.

1.1 Recent Change View

The corresponding Recent Change View for PCFOPT is 34.2.

2. FORM ENTRIES - 5996 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: The field represents the Switching Module number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 1 - 192

Data Rules:

When SM, PSU, SHELF, and CHANNEL GROUP is entered, these fields must be defined on the ETHIP form (5995 Record).

When SM, PSU, SHELF, CHANNEL GROUP, and SELECTION GROUP is entered, these fields must be defined on the PCFSG form (6924 Record).

When this form is entered, the PCFOPT form (5996-1 Record) must also be entered.

There can only be a maximum of 1024 PCFPDSN forms.

SM, PSU, SHELF, and CHANNEL GROUP must match the first seven digits of TRKOE on at least one TRUNK form (5204 Record), where the TKGRP form has TRKCLS equal to "PCF".

2.3 * PSU

Description: This field specifies the Packet Switching Unit number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 or 1

2.4 * SHELF

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Description: This field specifies the Packet Switching Unit shelf number.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 - 4

2.5 * CHANNEL GROUP

Description: This field specifies the Channel Group position.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 - 15

2.6 * IP ADDRESS

Description: This field specifies the Channel Group position.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 0 - 255 for each set

Data Rules:

When IP ADDRESS is entered, it must be defined on the PDSNCNFG form (5997 Record).

When IP ADDRESS on this form masked with IP SUBNET MASK1 on the ETHIP form (5995 Record) does not equal GATEWAY IP ADDRESS 1 on the ETHIP form masked with IP SUBNET MASK1 on the ETHIP form, then these two IP addresses are in different networks.

2.7 SELECTION GROUP

Description: This field indicates the Selection Group being used.

Software Release: 5E19(1) and later
Valid Entries: Enter up to 8 characters.

Data Rules:

The number of unique SELECTION GROUP values on this form must not exceed the maximum of 8 characters.

When one instance of the SELECTION GROUP is entered, then all of the instances must be entered.

2.8 PDSN OOS INTRVL

Description: This field indicates the interval to retry to a failed PDSN.

Software Release: 5E19(1) and later
Valid Entries: 1 - 65535

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```
                          OFFICE DATA ADMINISTRATION
(5996-2)                    PCF PDSN IP ASSIGNMENT

*1. SM             ___
*2. PSU            _
*3. SHELF          _
*4. CHANNEL GROUP  __
*5. IP ADDRESS     ___.___.___.___
```

Figure 1 SAMPLE PCFPDSN FORM 5E16(1) THROUGH 5E18(1) SOFTWARE RELEASES

```
pcfpdsn                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5996-2)                    PCF PDSN IP ASSIGNMENT

*1. SM              001
*2. PSU             1
*3. SHELF           1
*4. CHANNEL GROUP   01
*5. IP ADDRESS      001.255.000.000
10. SELECTION GROUP _________
11. PDSN OOS INTRVL _____
```

Figure 2 SAMPLE PCFPDSN FORM 5E19(1) AND LATER SOFTWARE RELEASES

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SEC. 3V: 5997 RECORD
PDSN CONFIGURATION - PDSNCNFG

1. GENERAL

The PDSN (Packet Data Serving Node) Configuration form is used to assign PDSN configuration parameters. This form was created to support the PCF (Packet Control Function) on PHE2 (PH30 with Ethernet Link) feature. For more information on this feature see Division 2, Section 8AC. This feature was first made available in the 5E16(1) FR1 (Feature Release 1) Software Release.

1.1 Recent Change View

The corresponding Recent Change View for PDSNCNFG is 34.3.

2. FORM ENTRIES - 5997 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IP ADDRESS

Description: IP (Internet Protocol) Address to be assigned to the PDSN interface.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: For IP address set 1, for Class A enter 001 - 126, for Class B 128 - 191, or for Class C 192 - 223.

2.3 IP SUBNET MASK

Description: This field specifies the IP Subnet Mask assigned to the PDSN.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 255 for set 1 and 0 - 255 for all other sets

2.4 SHARED SECRET

Description: This field is used for authentication.

Software Release: 5E16(1) and later
Required Field.
Valid Entries: 255 for set 1 and 0 - 255 for all other sets

2.5 MOB HOME AUTH EXT

Description: This field indicates whether or not the PCF (Packet Control Function) should authenticate all registration reply messages.

Software Release: 5E16(1) and later
Required Field.

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Default: Y
Valid Entries: Y, N

2.6 REG UPD AUTH EXT

Description: This field indicates whether or not the PCF (Packet Control Function) should authenticate all registration update messages.

Software Release: 5E16(1) and later
Required Field.
Default: Y
Valid Entries: Y, N

2.7 SPI AUTHENT PROTECT

Description: This field indicates whether or not the SPI (Security Parameter Index) is protected during authentication.

Software Release: 5E16(1) and later
Required Field.
Default: Y
Valid Entries: Y, N

2.8 SPI

Description: This field indicates the Security Parameter Index.

Software Release: 5E16(1) and later
Required Field.
Default: 3
Valid Entries: 1 - ffffffff hex

Data Rules:

SPI must be a value greater than 0.

2.9 VEND/ORG SPEC EXT

Description: This field indicates whether or not a vendor/organization specific extension is allowed to be sent with multiple attributes.

Software Release: 5E16(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.10 ESN ACCT ENABLE

Description: This field indicates whether or not the ESN (Equipment Serial Number) accounting is enabled.

Software Release: 5E16(1) and later
Required Field.
Default: N

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Valid Entries: Y, N

2.11 IS-835 VERSION 0

Description: This field indicates whether or not the IS-835 (Interim Standard-835) version 0 standard is applicable.

Software Release: 5E16(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.12 GRE CHKSUM ENABLE

Description: This field indicates whether or not the GRE (Generic Routing Encapsulation) checksum is enabled.

Software Release: 5E16(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.13 MEID ENABLE

Description: This field indicates whether or not PDSN is able to accept MEID.

Software Release: 5E20(1) and later
Required Field.
Default: N
Valid Entries: Y, N

2.14 SEND MEID DEFAULT

Description: This field indicates if the MEID parameter can be sent with an all zero value.

Software Release: 5E20(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When SEND MEID DEFAULT is "Y", then MEID ENABLE must be "Y".

When SEND MEID DEFAULT is Y and MEID ENABLE is Y, but no MEID (Mobile Equipment Identifier) parameter is received from the ECP, then send the MEID as zero in the A11 Registration Request message sent to the PDSN (Packet DataServing Node).

2.15 ORDER NUMBER

Description: This field allows the assignment of an order number to a PDSN.

Software Release: 5E19(1) and later

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Valid Entries: 0 - 10240

Data Rules:

When ORDER NUMBER is not entered on this form, PDSN SELECT ALG on the PCFOPT form (5996-1 Record) must not be "CUSTOM1".

```
pdsncnfg                          5ESS Switch           _
                            OFFICE DATA ADMINISTRATION
(5997)                          PDSN CONFIGURATION

*1. IP ADDRESS           ___.___.___.___
 6. IP SUBNET MASK       ___.___.___.___
11. SHARED SECRET        _ ______________________________________
14. MOB HOME AUTH EXT    Y
15. REG UPD AUTH EXT     Y
16. SPI AUTHENT PROTECT  Y
17. SPI                  00000003
18. VEND/ORG SPEC EXT    N
19. ESN ACCT ENABLE      N
20. IS-835 VERSION 0     N
21. CELL ID ENABLE       N
22. GRE CHKSUM ENABLE    N
```

Figure 1 SAMPLE PDSNCNFG FORM 5E16(1) THROUGH 5E16(2) SOFTWARE RELEASES

```
pdsncnfg                          5ESS Switch           _
                            OFFICE DATA ADMINISTRATION
(5997)                          PDSN CONFIGURATION

*1. IP ADDRESS           001.001.001.001
11. SHARED SECRET        _ ______________________________________
14. MOB HOME AUTH EXT    Y
15. REG UPD AUTH EXT     Y
16. SPI AUTHENT PROTECT  Y
17. SPI                  00000003
18. VEND/ORG SPEC EXT    N
19. ESN ACCT ENABLE      N
20. IS-835 VERSION 0     N
22. GRE CHKSUM ENABLE    N
```

Figure 2 SAMPLE PDSNCNFG FORM 5E17(1) THROUGH 5E18(1) SOFTWARE RELEASES

```
pdsncnfg                          5ESS Switch
```

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```
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5997)                        PDSN CONFIGURATION

*1. IP ADDRESS          001.255.255.255
11. SHARED SECRET       _ ____________________________________
14. MOB HOME AUTH EXT   Y
15. REG UPD AUTH EXT    Y
16. SPI AUTHENT PROTECT Y
17. SPI                 00000003
18. VEND/ORG SPEC EXT   N
19. ESN ACCT ENABLE     N
20. IS-835 VERSION 0    N
22. GRE CHKSUM ENABLE   N
23. NVSE ENABLE         N
24. ANID CAPABLE        N
```

```
pdsncnfg                          5ESS Switch           _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5997)                        PDSN CONFIGURATION

31. ORDER NUMBER ______
```

Figure 3 SAMPLE PDSNCNFG FORM 5E19(1) SOFTWARE RELEASE

```
pdsncnfg                          5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5997)                        PDSN CONFIGURATION

*1. IP ADDRESS          ___.___.___.___
11. SHARED SECRET       _ ____________________________________
14. MOB HOME AUTH EXT   Y
15. REG UPD AUTH EXT    Y
16. SPI AUTHENT PROTECT Y
17. SPI                 00000003
18. VEND/ORG SPEC EXT   N
19. ESN ACCT ENABLE     N
20. IS-835 VERSION 0    N
22. GRE CHKSUM ENABLE   N
23. MEID CAPABLE        N
24. SEND MEID DEFAULT   N
```

```
pdsncnfg                          5ESS Switch           _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5997)                        PDSN CONFIGURATION
```

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25. ORDER NUMBER _____

Figure 4 SAMPLE PDSNCNFG FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3W: 5918 RECORD
VOICE AND DATA CHANNELS

1. GENERAL

The Voice and Data Channel Counts form provides records of the RC (Recent Change) 22.32 transactions and it supports the Voice and Data Channel Counts feature.. For more information on this feature, see Division 2, Section 4A635.

NOTE: For 5E18(1) and later, this form no longer exist.

1.1 Recent Change View

The corresponding Recent Change View is 22.32.

2. FORM ENTRIES - 5988 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Inserts, updates, and deletes will ONLY be allowed for RC. This form can only be reviewed by ODA.

2.2 * KEY

Description: This field is used to review and insert a voice and data channel licensed record.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 0 - 2047

2.3 * PURCHASE ORDER

Description: This field is used to specify the purchase order number of new voice or data channels purchased.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 0 - 20 alphanumeric characters

2.4 * NEW VOICE LICENSED

Description: This field is used to specify new voice channels for a particular purchase order.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: -32768 - 32767

2.5 * NEW DATA LICENSED

Description: This field is used to specify new licensed data channels for a particular purchase order.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: -32768 - 32767

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2.6 FEATURE ACTIVE

Description: This field is used to specify whether or not to enable the Voice and Data Channel Counts feature. This is a no_change field.

Software Release: 5E16(2) and later

2.7 DATE

Description: This field is used to specify the date of particular transaction. This is a no_change field.

Software Release: 5E16(2) and later

2.8 REMARKS

Description: This field is used to add any remarks for a particular purchase order. This is a no_change field.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 0 - 32 characters

VOICE

The following fields (Section 2.9 - Section 2.10) are no_change fields that indicate the voice provision and the total license channels.

2.9 PROVISIONED

Description: This field is used to specify total voice channels in an office.

2.10 TOTAL LICENSED

Description: This field is used to specify total licensed channels in an office.

DATA

The following fields (Section 2.11 - Section 2.12) are no_change fields that indicate the data provision and the total license channels.

2.11 PROVISIONED

Description: This field is used to specify total provisioned data channels in an office.

2.12 TOTAL LICENSED

Description: This field is used to specify total licensed data channels in an office.

2.13 CONFIRM NEW VOICE

Description: This field is used to confirm new licensed voice channels of a particular purchase order.

Software Release: 5E16(2) and later

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Required Field.
Valid Entries: -32768 - 32767

2.14 CONFIRM NEW DATA

Description: This field is used to confirm new licensed data channels of a particular purchase order.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: -32768 - 32767

```
vdchn                          5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5918)                      VOICE AND DATA CHANNELS

(*)1. KEY                 _____                              VOICE
(*)2. PURCHASE ORDER      ____________________          PROVISIONED    ______
(*)3. NEW VOICE LICENSED  _______                       TOTAL LICENSED ______
(*)4. NEW DATA LICENSED   _______
                                                              DATA
      FEATURE ACTIVE _                                  PROVISIONED    ______
      DATE           ___________                        TOTAL LICENSED ______
      REMARKS        ______________________________
                                                        CONFIRM NEW VOICE _______
                                                        CONFIRM NEW DATA  _______
```

Figure 1 SAMPLE PDSNCNFG FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 3X: 5992 RECORD
PSU NETWORK CONNECTIVITY - PSUNWK

1. GENERAL

This form is made available with the 5E17(1) FR1 (Feature Release 1) and later Software Releases. It allows a user to define and specify parameters needed for intra network PSU (Packet Switching Unit) connectivity. This form supports the PHA2 (Protocol Handler for ATM (Asynchronous Transfer Mode) 2) PSU to PSU Connectivity feature. For more information on this feature, see Division 2, Section 7BY.

NOTE: This view was changed (5E17(1) FR 1 and later) to support inter-subnet links which were previously handled on the INTERPSU form and view (22.30) in addition to the already supported intra_subnet links. The view name was changed from "INTRA NETWORK PSU CONNECT" to "PSU NETWORK CONNECTIVITY". "COMMUNITY ADDRESS CONNECTION OVERRIDES" was changed to "'COMMUNITY ADDRESS ROUTING DATA (CALIST)", and the FAR SUBNET ID, DEFAULT LINK, and APP TYPE fields were added to this form/view. These changes were made to support the Multiple PHA2s for PSU to PSU Connectivity feature. For more information, see Division 2, Section 7CG.

1.1 Recent Change View

The corresponding Recent Change View is 22.29.

2. FORM ENTRIES - 5992 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: This field represents the Switching Module number.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 1 - 192

Data Rules:

Every PSUNWK form must have a matching ATMLNK form (5592 Record) where CHANNELS CON TYPE is "ATMNET".

When PSUNWK forms exist, CDMAOPT forms must also exist.

SM, PSU, and FAR SUBNET ID on this form must match with SM, PSU, and SUBNET on the IPATMRTG form (5896 Record).

2.3 * PSU

Description: This field represents the Packet Switching Unit.

Software Release: 5E17(1) and later
Required Field.

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Valid Entries: 0 - 1

2.4 * LINK

Description: This field specifies the Packet Switch Unit link number.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 1 - 10

Data Rules:

When multiple LINKs are defined on this form for the SM, PSU, and FAR SUBNET ID combination where FAR SUBNET ID is blank, or FAR SUBNET ID equals SUBNET ID on the CDMAOPT form (5599 Record), for each CA in the COMMUNITY ADDRESS ROUTING DATA, APP TYPE must adhere to the following rules:

L Case:

No other links can be assigned as "L"

At most, only 1 other CA can be assigned as "H"

No other links can be assigned as "B"

H Case:

No other links can be assigned as "H"

At most, only 1 other CA can be assigned as "L"

No other links can be assigned as "B"

B Case:

No other links can be assigned as "L"

No other links can be assigned as "H"

No other linkscan be assigned as "B"

2.5 FAR SUBNET ID

Description: This field is used to indicate the far subnet identifier.

Software Release: 5E18(1) and later
Valid Entries: 0 - 3

Data Rules:

When FAR SUBNET ID on this form does not equal SUBNET ID on the CDMAOPT form (5599 Record), NETWORK CON TYPE must be "VCC".

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When FAR SUBNET ID is unknown or equals the SUBNET ID on the CDMAOPT form (5563 Record) and the corresponding CA in the COMMUNITY ADDRESS ROUTING DATA does not match COM ADDR on the EQPSU form, then APP TYPE must be "H" or blank for intra subnet inter offices.

When FAR SUBNET ID is entered and does not equal the SUBNET ID on the CDMAOPT form, the APP TYPE must be "H" or blank.

2.6 # NETWORK CON TYPE

Description: This field is used to indicate how the PSUs in the same subnet are connected.

Software Release: 5E17(1) and later
Required Field.
Valid Entries:

Valid NETWORK CON TYPE Entries

Entry	Definition
VCC	Virtual Channel Connection
VPC	Virtual Path Connection

Data Rules:

NETWORK CON TYPE must be "VCC" or "VPC".

When NETWORK CON TYPE is "VCC" or one of the CON TYPE of COMMUNITY ADDRESS CONNECTION OVERRIDES is "VCC", HIGH and LOW PRIORITY VPI must be entered. If SUBNET ID is different from offiice SN, then the field must be "VOCC".

2.7 HIGH PRIORITY VPI

Description: This field is used to specify the high priority Virtual Path Identifier.

Software Release: 5E17(1) and later
Valid Entries: 0 - 528

Data Rules:

The values for HIGH PRIORITY VPI and LOW PRIORITY VPI must be different.

VPI on this form and HIGH PRIORITY VPI and LOW PRIORITY VPI on the PSUNWK form (5992 Record) must be unique per PSU.

2.8 LOW PRIORITY VPI

Description: This field is used to specify the low priority Virtual Path Identifier.

Software Release: 5E17(1) and later
Valid Entries: 0 - 528

2.9 DEFAULT LINK

Description: The DEFAULT LINK field is used to indicate if this LINK is the default link for this PSU. This is a display only field.

Software Release: 5E18(1) and later

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Valid Entries: Blank, Y, N

COMMUNITY ADDRESS ROUTING DATA (CALIST)

This list is used to override the default values of the connection type for each PSU Community Address.

2.10 CON TYPE

Description: This field is used to specify the connection type of each PSU community address.

Software Release: 5E17(1) and later
Valid Entries:

Valid CON TYPE Entries

Entry	Definition
VCC	Virtual Channel Connection
VPC	Virtual Path Connection

Data Rules:

For each CA in COMMUNITY ADDRESS ROUTING DATA on this form that is associated with the same SM, PSU, and FAR SUBNET ID combination with APP TYPE entered, the values on APP TYPE must not be duplicates.

2.11 APP TYPE

Description: APP TYPE specifies the application type of each PSU CA.

Software Release: 5E18(1) and later
Valid Entries:

Valid APP TYPE Entries

Entry	Definition
B	[B]oth high and low applications.
H	[H]igh application.
L	[L]ow application.

Valid CON TYPE and APP TYPE Entries

Subnet Type	Office Type	Network Con Type	conn Type	App Type
Intra-subnet	Intra-Office	VCC,VPC	VCC, VPC, b	B, H, L, b
Intra-subnet	Inter-Office	VCC,VPC	VCC, VPC, b	H, b
Inter-subnet, Inter-Office	NA	VCC	b	H, b

```
intrapsu                          5ESS Switch
SCREEN 1 OF 8              OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

*1. SM                  ___
*2. PSU                 _
*3. LINK                __
#4. NETWORK CON TYPE    ___
 5. HIGH PRIORITY VPI   ___
 6. LOW PRIORITY VPI    ___
```

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```
intrapsu                          5ESS Switch
SCREEN 2 OF 8               OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
  1   1   ___     11  11  ___     21  21  ___     31  31  ___
  2   2   ___     12  12  ___     22  22  ___     32  32  ___
  3   3   ___     13  13  ___     23  23  ___     33  33  ___
  4   4   ___     14  14  ___     24  24  ___     34  34  ___
  5   5   ___     15  15  ___     25  25  ___     35  35  ___
  6   6   ___     16  16  ___     26  26  ___     36  36  ___
  7   7   ___     17  17  ___     27  27  ___     37  37  ___
  8   8   ___     18  18  ___     28  28  ___     38  38  ___
  9   9   ___     19  19  ___     29  29  ___     39  39  ___
 10  10   ___     20  20  ___     30  30  ___     40  40  ___
```

```
intrapsu                          5ESS Switch
SCREEN 3 OF 8               OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
 41  41   ___     51  51  ___     61  61  ___     71  71  ___
 42  42   ___     52  52  ___     62  62  ___     72  72  ___
 43  43   ___     53  53  ___     63  63  ___     73  73  ___
 44  44   ___     54  54  ___     64  64  ___     74  74  ___
 45  45   ___     55  55  ___     65  65  ___     75  75  ___
 46  46   ___     56  56  ___     66  66  ___     76  76  ___
 47  47   ___     57  57  ___     67  67  ___     77  77  ___
 48  48   ___     58  58  ___     68  68  ___     78  78  ___
 49  49   ___     59  59  ___     69  69  ___     79  79  ___
 50  50   ___     60  60  ___     70  70  ___     80  80  ___
```

```
intrapsu                          5ESS Switch
SCREEN 4 OF 8               OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
 81  81   ___     91  91  ___    101 101  ___    111 111  ___
 82  82   ___     92  92  ___    102 102  ___    112 112  ___
 83  83   ___     93  93  ___    103 103  ___    113 113  ___
 84  84   ___     94  94  ___    104 104  ___    114 114  ___
 85  85   ___     95  95  ___    105 105  ___    115 115  ___
 86  86   ___     96  96  ___    106 106  ___    116 116  ___
```

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```
 87  87   ___      97  97   ___     107 107   ___     117 117   ___
 88  88   ___      98  98   ___     108 108   ___     118 118   ___
 89  89   ___      99  99   ___     109 109   ___     119 119   ___
 90  90   ___     100 100   ___     110 110   ___     120 120   ___
```

```
intrapsu                          5ESS Switch
SCREEN 5 OF 8              OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
121 121   ___    131 131   ___    141 141   ___    151 151   ___
122 122   ___    132 132   ___    142 142   ___    152 152   ___
123 123   ___    133 133   ___    143 143   ___    153 153   ___
124 124   ___    134 134   ___    144 144   ___    154 154   ___
125 125   ___    135 135   ___    145 145   ___    155 155   ___
126 126   ___    136 136   ___    146 146   ___    156 156   ___
127 127   ___    137 137   ___    147 147   ___    157 157   ___
128 128   ___    138 138   ___    148 148   ___    158 158   ___
129 129   ___    139 139   ___    149 149   ___    159 159   ___
130 130   ___    140 140   ___    150 150   ___    160 160   ___
```

```
intrapsu                          5ESS Switch
SCREEN 6 OF 8              OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
161 161   ___    171 171   ___    181 181   ___    191 191   ___
162 162   ___    172 172   ___    182 182   ___    192 192   ___
163 163   ___    173 173   ___    183 183   ___    193 193   ___
164 164   ___    174 174   ___    184 184   ___    194 194   ___
165 165   ___    175 175   ___    185 185   ___    195 195   ___
166 166   ___    176 176   ___    186 186   ___    196 196   ___
167 167   ___    177 177   ___    187 187   ___    197 197   ___
168 168   ___    178 178   ___    188 188   ___    198 198   ___
169 169   ___    179 179   ___    189 189   ___    199 199   ___
170 170   ___    180 180   ___    190 190   ___    200 200   ___
```

```
intrapsu                          5ESS Switch
SCREEN 7 OF 8              OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY
```

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```
             7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
201 201   ___    211 211   ___    221 221   ___    231 231   ___
202 202   ___    212 212   ___    222 222   ___    232 232   ___
203 203   ___    213 213   ___    223 223   ___    233 233   ___
204 204   ___    214 214   ___    224 224   ___    234 234   ___
205 205   ___    215 215   ___    225 225   ___    235 235   ___
206 206   ___    216 216   ___    226 226   ___    236 236   ___
207 207   ___    217 217   ___    227 227   ___    237 237   ___
208 208   ___    218 218   ___    228 228   ___    238 238   ___
209 209   ___    219 219   ___    229 229   ___    239 239   ___
210 210   ___    220 220   ___    230 230   ___    240 240   ___
```

```
intrapsu                          5ESS Switch            _
SCREEN 8 OF 8              OFFICE DATA ADMINISTRATION
(5992)                   INTRA NETWORK PSU CONNECTIVITY

7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE
241 241   ___    248 248   ___
242 242   ___    249 249   ___
243 243   ___    250 250   ___
244 244   ___    251 251   ___
245 245   ___    252 252   ___
246 246   ___    253 253   ___
247 247   ___    254 254   ___
```

Figure 1 SAMPLE INTRAPSU FORM 5E17(1) AND LATER SOFTWARE RELEASES

```
psunwk                            5ESS Switch
SCREEN 1 OF 10              OFFICE DATA ADMINISTRATION
(5992)                       PSU NETWORK CONNECTIVITY

  *1. SM                  ___
  *2. PSU                 _
  *3. LINK                __
(*)4. FAR SUBNET ID       _
  #5. NETWORK CON TYPE    ___
   6. HIGH PRIORITY VPI   ___
   7. LOW PRIORITY VPI    ___
      DEFAULT LINK        _
```

```
psunwk                            5ESS Switch
```

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```
SCREEN 2 OF 10            OFFICE DATA ADMINISTRATION
(5992)                     PSU NETWORK CONNECTIVITY

                 9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
  1  1   ____       _      11  11  ____       _      21  21  ____       _
  2  2   ____       _      12  12  ____       _      22  22  ____       _
  3  3   ____       _      13  13  ____       _      23  23  ____       _
  4  4   ____       _      14  14  ____       _      24  24  ____       _
  5  5   ____       _      15  15  ____       _      25  25  ____       _
  6  6   ____       _      16  16  ____       _      26  26  ____       _
  7  7   ____       _      17  17  ____       _      27  27  ____       _
  8  8   ____       _      18  18  ____       _      28  28  ____       _
  9  9   ____       _      19  19  ____       _      29  29  ____       _
 10 10   ____       _      20  20  ____       _      30  30  ____       _
```

```
psunwk                              5ESS Switch
SCREEN 3 OF 10            OFFICE DATA ADMINISTRATION
(5992)                     PSU NETWORK CONNECTIVITY

                 9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
 31 31   ____       _      41  41  ____       _      51  51  ____       _
 32 32   ____       _      42  42  ____       _      52  52  ____       _
 33 33   ____       _      43  43  ____       _      53  53  ____       _
 34 34   ____       _      44  44  ____       _      54  54  ____       _
 35 35   ____       _      45  45  ____       _      55  55  ____       _
 36 36   ____       _      46  46  ____       _      56  56  ____       _
 37 37   ____       _      47  47  ____       _      57  57  ____       _
 38 38   ____       _      48  48  ____       _      58  58  ____       _
 39 39   ____       _      49  49  ____       _      59  59  ____       _
 40 40   ____       _      50  50  ____       _      60  60  ____       _
```

```
psunwk                              5ESS Switch
SCREEN 4 OF 10            OFFICE DATA ADMINISTRATION
(5992)                     PSU NETWORK CONNECTIVITY

                 9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
 61 61   ____       _      71  71  ____       _      81  81  ____       _
 62 62   ____       _      72  72  ____       _      82  82  ____       _
 63 63   ____       _      73  73  ____       _      83  83  ____       _
 64 64   ____       _      74  74  ____       _      84  84  ____       _
 65 65   ____       _      75  75  ____       _      85  85  ____       _
 66 66   ____       _      76  76  ____       _      86  86  ____       _
 67 67   ____       _      77  77  ____       _      87  87  ____       _
```

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```
 68  68   ___       _      78  78   ___       _      88  88   ___       _
 69  69   ___       _      79  79   ___       _      89  89   ___       _
 70  70   ___       _      80  80   ___       _      90  90   ___       _
```

```
psunwk                              5ESS Switch
SCREEN 5 OF 10                OFFICE DATA ADMINISTRATION
(5992)                         PSU NETWORK CONNECTIVITY

                    9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
 91  91   ___       _     101 101   ___       _     111 111   ___       _
 92  92   ___       _     102 102   ___       _     112 112   ___       _
 93  93   ___       _     103 103   ___       _     113 113   ___       _
 94  94   ___       _     104 104   ___       _     114 114   ___       _
 95  95   ___       _     105 105   ___       _     115 115   ___       _
 96  96   ___       _     106 106   ___       _     116 116   ___       _
 97  97   ___       _     107 107   ___       _     117 117   ___       _
 98  98   ___       _     108 108   ___       _     118 118   ___       _
 99  99   ___       _     109 109   ___       _     119 119   ___       _
100 100   ___       _     110 110   ___       _     120 120   ___       _
```

```
psunwk                              5ESS Switch
SCREEN 6 OF 10                OFFICE DATA ADMINISTRATION
(5992)                         PSU NETWORK CONNECTIVITY

                    9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
121 121   ___       _     131 131   ___       _     141 141   ___       _
122 122   ___       _     132 132   ___       _     142 142   ___       _
123 123   ___       _     133 133   ___       _     143 143   ___       _
124 124   ___       _     134 134   ___       _     144 144   ___       _
125 125   ___       _     135 135   ___       _     145 145   ___       _
126 126   ___       _     136 136   ___       _     146 146   ___       _
127 127   ___       _     137 137   ___       _     147 147   ___       _
128 128   ___       _     138 138   ___       _     148 148   ___       _
129 129   ___       _     139 139   ___       _     149 149   ___       _
130 130   ___       _     140 140   ___       _     150 150   ___       _
```

```
psunwk                              5ESS Switch
SCREEN 7 OF 10                OFFICE DATA ADMINISTRATION
(5992)                         PSU NETWORK CONNECTIVITY

                    9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
151 151   ___       _     161 161   ___       _     171 171   ___       _
```

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```
152 152   ___       _     162 162   ___       _     172 172   ___       _
153 153   ___       _     163 163   ___       _     173 173   ___       _
154 154   ___       _     164 164   ___       _     174 174   ___       _
155 155   ___       _     165 165   ___       _     175 175   ___       _
156 156   ___       _     166 166   ___       _     176 176   ___       _
157 157   ___       _     167 167   ___       _     177 177   ___       _
158 158   ___       _     168 168   ___       _     178 178   ___       _
159 159   ___       _     169 169   ___       _     179 179   ___       _
160 160   ___       _     170 170   ___       _     180 180   ___       _
```

```
psunwk                              5ESS Switch
SCREEN 8 OF 10                OFFICE DATA ADMINISTRATION
(5992)                         PSU NETWORK CONNECTIVITY

                  9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
181 181   ___       _     191 191   ___       _     201 201   ___       _
182 182   ___       _     192 192   ___       _     202 202   ___       _
183 183   ___       _     193 193   ___       _     203 203   ___       _
184 184   ___       _     194 194   ___       _     204 204   ___       _
185 185   ___       _     195 195   ___       _     205 205   ___       _
186 186   ___       _     196 196   ___       _     206 206   ___       _
187 187   ___       _     197 197   ___       _     207 207   ___       _
188 188   ___       _     198 198   ___       _     208 208   ___       _
189 189   ___       _     199 199   ___       _     209 209   ___       _
190 190   ___       _     200 200   ___       _     210 210   ___       _
```

```
psunwk                              5ESS Switch
SCREEN 9 OF 10                OFFICE DATA ADMINISTRATION
(5992)                         PSU NETWORK CONNECTIVITY

                  9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
211 211   ___       _     221 221   ___       _     231 231   ___       _
212 212   ___       _     222 222   ___       _     232 232   ___       _
213 213   ___       _     223 223   ___       _     233 233   ___       _
214 214   ___       _     224 224   ___       _     234 234   ___       _
215 215   ___       _     225 225   ___       _     235 235   ___       _
216 216   ___       _     226 226   ___       _     236 236   ___       _
217 217   ___       _     227 227   ___       _     237 237   ___       _
218 218   ___       _     228 228   ___       _     238 238   ___       _
219 219   ___       _     229 229   ___       _     239 239   ___       _
220 220   ___       _     230 230   ___       _     240 240   ___       _
```

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```
psunwk                              5ESS Switch              _
SCREEN 10 OF 10              OFFICE DATA ADMINISTRATION
(5992)                        PSU NETWORK CONNECTIVITY

    9. COMMUNITY ADDRESS ROUTING DATA (CALIST)
ROW CA  CON TYPE APP TYPE ROW CA  CON TYPE APP TYPE
241 241   ___       _     248 248   ___       _
242 242   ___       _     249 249   ___       _
243 243   ___       _     250 250   ___       _
244 244   ___       _     251 251   ___       _
245 245   ___       _     252 252   ___       _
246 246   ___       _     253 253   ___       _
247 247   ___       _     254 254   ___       _
```

Figure 2 SAMPLE PSUNWK FORM 5E18(1) AND LATER SOFTWARE RELEASES

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SEC. 3Y: 5993 RECORD
INTER NETWORK PSU CONNECTIVITY - INTERPSU

1. GENERAL

This form is made available with the 5E17(1) FR1 (Feature Release 1) and later Software Releases. It allows a user to define and specify parameters needed for inter network PSU (Packet Switching Unit) connectivity. This form supports the PHA2 (Protocol Handler for ATM (Asynchronous Transfer Mode) 2) PSU to PSU Connectivity feature. For more information on this feature, see Division 2, Section 7BY.

NOTE: For 5E18(1) and later, this form no longer exist.

1.1 Recent Change View

The corresponding Recent Change View is 22.30.

2. FORM ENTRIES - 5993 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: This field represents the Switching Module number.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 1 - 192

Data Rules:

When INTERPSU, PSUNWK, INTRAPSU, PSUGW, or PSUPM forms exist, the CDMAOPT form (5599 Record) must also exist.

2.3 * PSU

Description: This field represents the Packet Switching Unit.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 0 - 1

2.4 * LINK

Description: This field specifies the Packet Switch Unit link number.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 1 - 10

2.5 * FAR SUBNET ID

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Description: This field is used to indicate the far subnet identifier.

Software Release: 5E17(1) and later
Required Field.
Valid Entries: 0 - 3

Data Rules:

FAR SUBNET ID on this form must not equal to SUBNET ID on the CDMAOPT form.

2.6 # NETWORK CON TYPE

Description: This field is used to indicate how the PSUs are connected to the far network.

Software Release: 5E17(1) and later
Required Field.
Valid Entries:

Valid NETWORK CON TYPE Entries

Entry	Definition
GW	Gateway connection
VCC	Virtual Channel Connection

- **WARNING:** Inhibit all the active PM sessions of this SM/PSU/LINK/FAR SUBNET ID before updating NETWORK CON TYPE from "VCC" to "GW".

Data Rules:

When NETWORK CON TYPE is "VCC" or one of CON TYPE of COMMUNITY ADDRESS CONNECTION OVERRIDES is "VCC", VPI must be entered.

2.7 VPI

Description: This field is used to specify the Virtual Path Identifier.

Software Release: 5E17(1) and later
Valid Entries: 0 - 528

Data Rules:

VPI on this form and HIGH PRIORITY VPI and LOW PRIORITY VPI on the PSUNWK form (5992 Record) must be unique per SM, PSU, and LINK combination.

COMMUNITY ADDRESS CONNECTION OVERRIDES

This list is used to override the default values of the connection type for each PSU Community Address.

2.8 CON TYPE

Description: This field is used to specify the connection type of each PSU community address.

Software Release: 5E17(1) and later
Valid Entries:

Valid CON TYPE Entries

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Entry	Definition
GW	Gateway Connection
VCC	Virtual Channel Connection

```
interpsu                          5ESS Switch
SCREEN 1 OF 8              OFFICE DATA ADMINISTRATION
(5993)                   INTER NETWORK PSU CONNECTIVITY

*1. SM                ___
*2. PSU               _
*3. LINK              __
*4. FAR SUBNET ID     _
#5. NETWORK CON TYPE  ___
 6. VPI               ___
```

```
interpsu                          5ESS Switch
SCREEN 2 OF 8              OFFICE DATA ADMINISTRATION
(5993)                   INTER NETWORK PSU CONNECTIVITY

             7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
  1   1   ___     11  11   ___     21  21   ___     31  31   ___
  2   2   ___     12  12   ___     22  22   ___     32  32   ___
  3   3   ___     13  13   ___     23  23   ___     33  33   ___
  4   4   ___     14  14   ___     24  24   ___     34  34   ___
  5   5   ___     15  15   ___     25  25   ___     35  35   ___
  6   6   ___     16  16   ___     26  26   ___     36  36   ___
  7   7   ___     17  17   ___     27  27   ___     37  37   ___
  8   8   ___     18  18   ___     28  28   ___     38  38   ___
  9   9   ___     19  19   ___     29  29   ___     39  39   ___
 10  10   ___     20  20   ___     30  30   ___     40  40   ___
```

```
interpsu                          5ESS Switch
SCREEN 3 OF 8              OFFICE DATA ADMINISTRATION
(5993)                   INTER NETWORK PSU CONNECTIVITY

             7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
 41  41   ___     51  51   ___     61  61   ___     71  71   ___
 42  42   ___     52  52   ___     62  62   ___     72  72   ___
 43  43   ___     53  53   ___     63  63   ___     73  73   ___
 44  44   ___     54  54   ___     64  64   ___     74  74   ___
 45  45   ___     55  55   ___     65  65   ___     75  75   ___
 46  46   ___     56  56   ___     66  66   ___     76  76   ___
 47  47   ___     57  57   ___     67  67   ___     77  77   ___
```

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```
 48  48   ___      58  58   ___      68  68   ___      78  78   ___
 49  49   ___      59  59   ___      69  69   ___      79  79   ___
 50  50   ___      60  60   ___      70  70   ___      80  80   ___
```

```
interpsu                              5ESS Switch
SCREEN 4 OF 8                 OFFICE DATA ADMINISTRATION
(5993)                      INTER NETWORK PSU CONNECTIVITY

                7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
 81  81   ___      91  91   ___     101 101   ___     111 111   ___
 82  82   ___      92  92   ___     102 102   ___     112 112   ___
 83  83   ___      93  93   ___     103 103   ___     113 113   ___
 84  84   ___      94  94   ___     104 104   ___     114 114   ___
 85  85   ___      95  95   ___     105 105   ___     115 115   ___
 86  86   ___      96  96   ___     106 106   ___     116 116   ___
 87  87   ___      97  97   ___     107 107   ___     117 117   ___
 88  88   ___      98  98   ___     108 108   ___     118 118   ___
 89  89   ___      99  99   ___     109 109   ___     119 119   ___
 90  90   ___     100 100   ___     110 110   ___     120 120   ___
```

```
interpsu                              5ESS Switch
SCREEN 5 OF 8                 OFFICE DATA ADMINISTRATION
(5993)                      INTER NETWORK PSU CONNECTIVITY

                7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
121 121   ___     131 131   ___     141 141   ___     151 151   ___
122 122   ___     132 132   ___     142 142   ___     152 152   ___
123 123   ___     133 133   ___     143 143   ___     153 153   ___
124 124   ___     134 134   ___     144 144   ___     154 154   ___
125 125   ___     135 135   ___     145 145   ___     155 155   ___
126 126   ___     136 136   ___     146 146   ___     156 156   ___
127 127   ___     137 137   ___     147 147   ___     157 157   ___
128 128   ___     138 138   ___     148 148   ___     158 158   ___
129 129   ___     139 139   ___     149 149   ___     159 159   ___
130 130   ___     140 140   ___     150 150   ___     160 160   ___
```

```
interpsu                              5ESS Switch
SCREEN 6 OF 8                 OFFICE DATA ADMINISTRATION
(5993)                      INTER NETWORK PSU CONNECTIVITY

                7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
```

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```
161 161   ___     171 171   ___     181 181   ___     191 191   ___
162 162   ___     172 172   ___     182 182   ___     192 192   ___
163 163   ___     173 173   ___     183 183   ___     193 193   ___
164 164   ___     174 174   ___     184 184   ___     194 194   ___
165 165   ___     175 175   ___     185 185   ___     195 195   ___
166 166   ___     176 176   ___     186 186   ___     196 196   ___
167 167   ___     177 177   ___     187 187   ___     197 197   ___
168 168   ___     178 178   ___     188 188   ___     198 198   ___
169 169   ___     179 179   ___     189 189   ___     199 199   ___
170 170   ___     180 180   ___     190 190   ___     200 200   ___
```

```
interpsu                          5ESS Switch
SCREEN 7 OF 8               OFFICE DATA ADMINISTRATION
(5993)                   INTER NETWORK PSU CONNECTIVITY

              7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE ROW CA  CON TYPE
201 201   ___     211 211   ___     221 221   ___     231 231   ___
202 202   ___     212 212   ___     222 222   ___     232 232   ___
203 203   ___     213 213   ___     223 223   ___     233 233   ___
204 204   ___     214 214   ___     224 224   ___     234 234   ___
205 205   ___     215 215   ___     225 225   ___     235 235   ___
206 206   ___     216 216   ___     226 226   ___     236 236   ___
207 207   ___     217 217   ___     227 227   ___     237 237   ___
208 208   ___     218 218   ___     228 228   ___     238 238   ___
209 209   ___     219 219   ___     229 229   ___     239 239   ___
210 210   ___     220 220   ___     230 230   ___     240 240   ___
```

```
interpsu                          5ESS Switch           _
SCREEN 8 OF 8               OFFICE DATA ADMINISTRATION
(5993)                   INTER NETWORK PSU CONNECTIVITY

7. COMMUNITY ADDRESS CONNECTION OVERRIDES
ROW CA  CON TYPE ROW CA  CON TYPE
241 241   ___     248 248   ___
242 242   ___     249 249   ___
243 243   ___     250 250   ___
244 244   ___     251 251   ___
245 245   ___     252 252   ___
246 246   ___     253 253   ___
247 247   ___     254 254   ___
```

Figure 1 SAMPLE INTERPSU FORM 5E17(1) AND LATER SOFTWARE RELEASES

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SEC. 3Z: 5219 RECORD
PACKET GROUP DEFINITION - PKTGRP

1. GENERAL

This form supports ATM (Assynchronous Transfer Mode) Packet groups for BICC (Bearer Independent Call Control) signaling and IP (Internet Protocol) Packet Group for SIP-T (Session Initiation Protocol for Telephones) signaling. It is used to insert, update, review, and delete ATM or IP (Internet Protocol) packet groups. This form is made available with the 5E16(2) and later Software Releases.

1.1 Recent Change View

The corresponding Recent Change View for PKTGRP is 5.71.

2. FORM ENTRIES - 5219 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PKT GRP

Description: This field is used to specify the Packet Group.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 7000 - 7999

Data Rules:

When the BICC FIELDS DEST PT CODE and ORIG PT CODE are entered, (signifying a BICC Packet Group):

The SIP-T FIELDS SIP-T GSM, SIP-T PARM SET NAME, SIP-T PRECOND, ASSOC SET NAME, and UDP PATH cannot be entered.

a CICDIST form (5217 Record) must be defined.

at least one SM2K MODULE must be entered on the CIC DISTRIBUTION list on the CICDIST form.

the ACT field for SFID 567 on the SFSYS form (5713-1 Record) must be set to "Y".

When the SIP-T FIELDS SIP-T GSM, SIP-T PARM SET NAME, SIP-T PRECOND, and one of either ASSOC SET NAME or UDP PATH are entered (signifying a SIP Packet Group):

The BICC FIELDS DEST PT CODE, ORIG PT CODE, BASE CIC, and TOTAL CICS cannot be entered.

the ACT field for SFID 684 on the SFSYS form (5713-1 Record) must be set to "Y".

a SIPGSM form (5880 Record) must be defined with GSM equal to SIP-T GSM on the PKTGRP form.

a SIPTSMS form (5881 Record) must be defined with GSM equal to SIP-T GSM on the PKTGRP form.

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2.3 RMK

Description: This field is used to specify an optional remark up to 16 characters.

Software Release: 5E16(2) and later
Valid Entries: 1 - 16 alphanumeric characters

2.4 # BEARER NET ID

Description: This field is used to specify the Bearer Network ID to be used for setting up the bearer path for calls using this packet group for signaling. This field supports the OIU - IP (Optical Interface Unit - Internet Protocol) feature (99-5E-8308). See Division 2, Section 7BX. for more information.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: 1 - 512

Data Rules:

BEARER NET ID value assigned to a Packet Group on the PKTGRP form must be defined as BNID on the BEARERNET form (5935 Record); Recent Change view 33.15.

The BEARER NET ID entered on the PKTGRP form with a BEARER TYPE of "OIU" defined on the BEARERNET form (5935 Record) must be assigned to at least one EQOIUP form (5761 Record) which has either EQSTAT 0 and/or EQSTAT 1 set to"O" for PCT LINK 0.

2.5 # FAR CLLI

Description: This field is used to specify an 11-character Far End Common Language Location Identifier. Required field.

Software Release: 5E16(2) and later
Valid Entries: 11 characters

2.6 # NEAR CLLI

Description: This field is used to specify an 11-character Near End Common Language Location Identifier. Required field.

Software Release: 5E16(2) and later
Valid Entries: 11 characters

2.7 # HUNT TYPE

Description: This field is used to specify the type of hunting.
Required field.

Software Release: 5E16(2) and later
Required Field.
Default: 2WF
Valid Entries:

Valid TMS COMPONENT TYPE Entries

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Entry	Description
2WB	Two-Way Backward hunt.
2WF	Two-Way Forward hunt.

Data Rules:

HUNT TYPE must be"'2WF" for SIP-T Group.

HUNT TYPE must be "2WB" or "2WF" for BICC Group.

2.8 # CONTROL TYPE

Description: This field is used to specify the Control Type.

Software Release: 5E16(2) and later
Required Field.
Valid Entries: [C]ANCEL or [S]KIP

BICC FIELDS

The following fields (Section 2.9 - Section 2.13) are used to indicate that a BICC Packet Group has been defined.

2.9 DEST PT CODE

Description: This field is used to specify the Destination Point Code value.

Software Release: 5E16(2) and later

Data Rules:

For 5E16(2) and later:

DEST PT CODE must not equal ORIG PT CODE.

If DEST PT CODE is known and in the IMT (Inter-Module Trunking) format, then seventh, eighth, and nineth digits of the DEST PT CODE must not be equal to fourth, fifth and sixth digits of DEST PT CODE.

Either all BICC fields must be entered, or all SIP-T fields must be entered.

DEST PT CODE and ORIG PT CODE pair must be unique between all BICC Packet Groups.

When the TGN is defined with PKT GRP entered on the TKGRP form (5202 Record), and the PKT GRP is associated with a SIP-T Packet Group (defined on the PKTGRP form (5219 Record), DEST PT CODE and ORIG PT CODE must not be entered

2.10 ORIG PT CODE

Description: This field is used to specify the Originating Point Code value.

Software Release: 5E16(2) and later

Data Rules:

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For 5E16(2) and later, the ORIG PT CODE and DEST PT CODE specify different networks in the first three digits of the point code, thus the DEST PT CODE must be in ANSI format and the fourth, fifth and sixth digits of the DEST PT CODE must be between 0 and 255.

When a BICC Packet Group is defined (DEST PT CODE and ORIG PT CODE entered), all groups must use the same CCS platform, either "CNI" or "PSU" (identified by ORIG PT CODE).

When a BICC Packet Group is defined (DEST PT CODE and ORIG PT CODE entered) that uses a PSU platform, then GSM derived from the ORIG PT CODE must be entered either as GLOBAL SM on the CMTMH form (6021 Record) or SM on the MDLNK form (6009 Record), and all SM2K MODULEs on the CICDIST form must be entered either as NON GLOBAL SMs on the CMTMH form, or SM on the MDLNK form.

In a non-VCDX office, when a BICC Packet Group is defined that uses the PSU platform, then GSM derived from ORIG PT CODE must be entered on the CCGSM form (6008 Record) as a Host GSM (Global Switching Module).

When a BICC Packet Group is defined and it uses the CNI platform, DLN on the OFCOPT form (5509 Record) must be set to "Y".

2.11 PLATFORM

Description: This field is used to indicate CNI (Common Network Interface) or PSU (Packet Switching Unit) for BICC/CCS7 (Signaling System 7) Signaling Platform. This is a no_change field that only applies to BICC packet groups.

Software Release: 5E16(2) and later

2.12 BASE CIC

Description: This field is used to specify the Base Call Instance Code.

Software Release: 5E16(2) and later
Valid Entries: 0 - 4294966912

Data Rules:

For 5E16(2) and later:

BASE CIC cannot exceed 4294966912.

BASE CIC must be divisible by 128.

2.13 TOTAL CICS

Description: This field is used to specify the Total Call Instance Codes.

Software Release: 5E16(2) and later
Valid Entries: 0, or 256 - 65536, in multiples of 128

SIP-T FIELDS

The following fields (Section 2.14 - Section 2.21) are used to support the SIP (Session Initiation Protocol) for

Packet Trunking feature. For more information see Division 2, Section 4A684.

2.14 ASSOC SET NAME

Description: This field is used to indicate the association set name for interfacing with the SCTP ((Stream Control Transport Protocol) Transport Layer..

Software Release: 5E16(2) and later
Valid Entries: 1 - 20 characters

Data Rules:

When ASSOC SET NAME and SIP-T GSM is entered,

UDP PATH cannot be entered.

an ASSOCSET form (5890 Record) must be defined with ASSOCIATION SET NAME equal to ASSOC SET NAME on the PKTGRP form, and GSM equal to SIP-T GSM on the PKTGRP form.

the ASSOC SET NAME must be unique to one PKTGRP form.

2.15 UDP PATH SET NAME (prior to 5E21(1) the name was UDP PATH)

Description: This field specifies the UDP Path Set Name. This field supports the UDP (User Data Protocol) Transport Layer for SIP (Session Initiation Protocol) and UDP PATH SET features. For more information see Division 2, Section 1DE and Division 2, Section 8AY, respectively.

Software Release: (UDP PATH) 5E20(1) and earlier;
(UDP PATH SET NAME) 5E21(1) and later
Valid Entries:

(UDP PATH) 1 - 128
(UDP PATH SET NAME) Up to 16 Alphanumeric characters

Data Rules:

When UDP PATH is entered:

ASSOC SET NAME cannot be entered

a UDPPATH form (5891 Record) must be defined, with GSM equal to the SIP-T GSM field on the PKTGRP form.

the UDP PATH number must be unique to one PKTGRP form.

the SIP-T PRECOND field must be set to NO.

UDP PATH for PKT GRP defined with SIP-T GSM on this form must be defined on the UDPPATH form (5891 Record) with GSM equal to SIP-T GSM.

When UDP PATH is entered, the ACT field for SFID 700 on the SFSYS form (5713-1 Record) must be set to "Y" and if UDP PATH is entered, ASSOC SET NAME cannot be entered.

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For 5E21(1) and later:

when UDP PATH SET NAME is entered, SIP-T PRECOND must be "N".

when UDP PATH SET NAME is not entered, IMS must be "N".

2.16 SIP-T GSM

Description: This field is used to indicate the SIP-T (Session Initiation Protocol for Telephones) Global Switching Module.

Software Release: 5E16(2) and later
Valid Entries: 1 - 192

Data Rules:

When SIP-T GSM is entered, it must be defined on the SIPGSM and SIPTSMS forms (5880/5881 Records).

When SIP-T GSM is entered, ASSOC SET NAME or UDP PATH SET NAME must also be entered.

2.17 SIP-T PARM SET NAME

Description: This field is used to indicate the global SIP-T parameters set name.

Software Release: 5E16(2) and later
Valid Entries: 1 - 20 characters

Data Rules:

SIP-T PARM SET NAME must be defined on the SIPTPARM form (5882 Record).

2.18 SIP PSTN SET NAME

Description: This field is used to indicate the SIP PSTN(Public Switched Telephone Network) Interworking parameter set name. This field supports the SIP (Session Initiation Protocol) Enhancements to PSTN Gateway feature. For more information on this feature see, Division 2, Section 5R.

Software Release: 5E16(2) FR 6 and later
Valid Entries: Enter up to 16 alphanumeric characters

Data Rules:

SIP PSTN SET NAME must be defined on the SIPPSTN form (5893 Record).

2.19 SIP-T PRECOND

Description: This field is used to indicate whether or not SIP-T Precondition procedures will be used.

Software Release: 5E16(2) and later
Valid Entries: Y, N

Data Rules:

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When SIP-T PRECOND is "Y", ENABLE LOCAL must be "N".

2.20 ENABLE LOCAL

Description: This field indicates whether or not the local call progress tones should be provided. This field supports the SIP (Session Initiation Protocol) Enhancements to PSTN Gateway feature. For more information on this feature see, Division 2, Section 5R.

Software Release: 5E16(2) FR6 and later
Valid Entries: Y, N

2.21 IMS

Description: The IP Multimedia Subsystem (IMS) field is used to indicates whether or not the packet group terminates on an IP Multimedia Subsystem network component at the far end.

Software Release: 5E16(2) FR 6 and later
Default: N
Valid Entries: Y, N

2.22 TONE ANNC

Description: This field indicates the type of tone provisioning, local or remote tone.

Software Release: 5E20(1) and later
Valid Entries:

Valid TONE Entries

Entry	Description
RCP	Remote Call Processing
LCP	Local Call Processing

```
pktgrp                          5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5219)                      PACKET GROUP DEFINITION

*1. PKT GRP       ____              11. BASE CIC   __________
 2. RMK           ___________________ 12. TOTAL CICS _____
#3. BEARER NET ID ___
#4. FAR CLLI      ____________                    SIP-T FIELDS
#5. NEAR CLLI     ____________      13. ASSOC SET NAME      ________________________
#6. HUNT TYPE     2WF               14. UDP PATH            ___
#7. CONTROL TYPE  _______           15. SIP-T GSM           ___
                                    16. SIP-T PARM SET NAME ________________________
        BICC FIELDS                 17. SIP PSTN SET NAME   ___________________
 8. DEST PT CODE __________         18. SIP-T PRECOND       _
 9. ORIG PT CODE __________         19. ENABLE LOCAL        _
    PLATFORM     ___                20. IMS                 N
```

Figure 1 SAMPLE PKTGRP FORM 5E16(2) THROUGH 5E19(1)SOFTWARE RELEASES

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```
pktgrp                          5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5219)                       PACKET GROUP DEFINITION

*1. PKT GRP        ____              11. BASE CIC   __________
 2. RMK            ___________________ 12. TOTAL CICS _____
#3. BEARER NET ID ___
#4. FAR CLLI       ____________                    SIP-T FIELDS
#5. NEAR CLLI      ____________      13. ASSOC SET NAME      ________________________
#6. HUNT TYPE      2WF               14. UDP PATH            ____
#7. CONTROL TYPE   _______           15. SIP-T GSM           ___
                                     16. SIP-T PARM SET NAME ________________________
        BICC FIELDS                  17. SIP PSTN SET NAME   ___________________
 8. DEST PT CODE __________          18. SIP-T PRECOND       _
 9. ORIG PT CODE __________          19. ENABLE LOCAL        _
    PLATFORM     ___                 20. IMS                 N
```

```
pktgrp                          5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5219)                       PACKET GROUP DEFINITION

22. TONE ANNC RCP
```

Figure 2 SAMPLE PKTGRP FORM 5E20(1) AND LATER SOFTWARE RELEASES

```
pktgrp                          5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5219)                       PACKET GROUP DEFINITION

*1. PKT GRP        ____              11. BASE CIC   __________
 2. RMK            ___________________ 12. TOTAL CICS _____
#3. BEARER NET ID ___
#4. FAR CLLI       ____________                    SIP-T FIELDS
#5. NEAR CLLI      ____________      13. ASSOC SET NAME      ________________________
#6. HUNT TYPE      2WF               14. UDP PATH SET NAME   ___________________
#7. CONTROL TYPE   _______           15. SIP-T GSM           ___
                                     16. SIP-T PARM SET NAME ________________________
        BICC FIELDS                  17. SIP PSTN SET NAME   ___________________
 8. DEST PT CODE __________          18. SIP-T PRECOND       _
 9. ORIG PT CODE __________          19. ENABLE LOCAL        _
    PLATFORM     ___                 20. IMS                 N
```

```
pktgrp                              5ESS Switch              _
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5219)                         PACKET GROUP DEFINITION

22. TONE ANNC RCP
```

Figure 3 SAMPLE PKTGRP FORM 5E21(1) AND LATER SOFTWARE RELEASES

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SEC. 3AA: 5998 RECORD
PSU TO PSU PERFORMANCE MONITORING SESSION - PSUPM

1. GENERAL

Available for 5E17(1) FR1 and later, this form supports the PHA2 (Protocol Handler for ATM (Asynchronous Transfer Mode) 2) PSU (Packet Switching Unit) to PSU Connectivity feature (99-5E-8048). This form is used to define the parameters used in a session to monitor the performance of the ATM connection for this feature.. For more information, see Division 2, Section 7BY.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.31.

2. FORM ENTRIES - 5998 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PMS NUMBER

Description: The PMS NUMBER field represents the number used to identify a performance monitoring session.

Software Release: 5E17(1) FR1 and later
Required field.
Valid Entries: 1 - 1024

Data Rules:

Each PSUPM form must have a corresponding EQIM form (5700 Record) where the EQSTATUS is "O".

2.3 # NEAR COM ADDR

Description: This field is used to specify the community address of the near PSU.

Software Release: 5E17(1) FR1 and later
Required field.
Valid Entries: 1 - 254

Data Rules:

The combination of NEAR COM ADDR, LINK, FAR SUBNET ID, FAR COM ADDR and APP TYPE must be unique between the PSUPM forms.

If FAR SUBNET ID on the PSUPM form is not entered, the default value of this field is SUBNET ID on the CDMAOPT form.

If Far Subnet ID is not entered, the default value of this field is SUBNET ID on the CDMAOPT form.

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If Far PSU Community Address is not entered, the default value of this field is 1.

If Application Type is not entered, the default value of this field is "H".

When NEAR COM ADDR is entered, it must be defined with the same value as COM ADDR on the EQPSU form (5741 Record).

2.4 # LINK

Description: This field identifies the PSU link number.

Software Release: 5E17(1) FR1 and later
Required field.
Valid Entries: 1 - 10

2.5 FAR SUBNET ID

Description: The CDMA (Code Division Multiple Access) sub-network ID assigned to the far end.

Software Release: 5E17(1) FR1 and later
Valid Entries: 0 - 3

Data Rules:

When FAR SUBNET ID is not entered, NEAR COM ADDR must not equal FAR COM ADDR.

For every PSUPM form, there must be a corresponding PSUNWK form (5992 Record).

2.6 # FAR COM ADDR

Description: This field is used to specify the community address of the far PSU.

Software Release: 5E17(1) FR1 and later
Required field.
Valid Entries: 1 - 254

2.7 # CONN PRIORITY

Description: This field specifies the connection priority.

NOTE: The CONN PRIO field was replaced with the APP TYPE field. This change was made to support the Multiple PHA2 PSU to PSU Connectivity feature. The feature was first made available in a 5E18(1) Feature Release (FR). For information on this feature, see Division 2, Section 7CG.

2.8 APP TYPE

Description: The APP TYPE field is used to specify the application type of the PM session established on ATM PSU link using PHA2.

Software Release: 5E18(1) and later
Valid Entries: H (High), L (Low)

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Data Rules:

Every PSUPM form, where FAR SUBNET ID is entered or equal to SUBNET ID on the CDMAOPT form (5599 Record), must have a corresponding PSUNWK form (5992 Record) where LINK, CALIST CAs, and APPTYPE matches the LINK, FARCOMADDR, and APPTYPE on the PSUPM form.

2.9 # TYPE OF MON

Description: This field specifies the type of monitoring to apply.

Software Release: 5E17(1) FR1 and later
Required field.
Valid Entries:

Valid TYPE Entries	
Entry	**Definition**
B	Both incoming and outgoing
I	Incoming only.
O	Outgoing only.

2.10 BLOCK SIZE

Description: This field indicates how many ATM cells are transmitted before a performance monitoring cell is transmitted.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 1024
Valid Entries: 128, 256, 512, 1024, 2048, 4096, 8192, 16384, or 32768.

2.11 SECB

Description: The SECB (Severly Errored Cell Blocks Threshold) field indicates the number of SECBs that can be encountered before firing an alarm in the office.

Software Release: 5E17(1) FR1 and later
Required field.
Default: OFF
Valid Entries:

Valid TYPE Entries	
Entry	**Definition**
OFF	Threshold is off.
1	Minimum threshold level.
4294967295	Maximum threshold level.

2.12 IMPBLCK

Description: The Impaired Block Thrreshold field indicates the number of impaired blocks that can be encountered before firing an alarm in the office.

Software Release: 5E17(1) FR1 and later
Required field.
Default: OFF
Valid Entries:

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Valid TYPE Entries	
Entry	**Definition**
OFF	Threshold is off.
1	Minimum threshold level.
4294967295	Maximum threshold level.

2.13 AUTO REPORT

Description: This field indicates whether a performance monitoring session is reported automatically.

Software Release: 5E17(1) FR1 and later
Required field.
Default: N
Valid Entries: Y, N

2.14 ENABLED

Description: This field indicates whether a performance monitoring session is enabled. This is a display only field.

Software Release: 5E17(1) FR1 and later.
Default: N
Valid Entries: Y, N

```
psupm                              5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(5998)                PSU TO PSU PERFORMANCE MONITORING SESSION

*1. PMS NUMBER     _____
#2. NEAR COM ADDR  ___
#3. LINK           __
 4. FAR SUBNET ID  _
#5. FAR COM ADDR   ___
#6. CONN PRIORITY  _
#7. TYPE OF MON    _
 8. BLOCK SIZE     1024
 9. SECB           OFF
10. IMPBLCK        OFF
11. AUTO REPORT    N
    ENABLED        N
```

Figure 1 SAMPLE PSUPM FORM 5E17(1) FR1 AND EARLIER SOFTWARE RELEASES

```
psupm                              5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(5998)                PSU TO PSU PERFORMANCE MONITORING SESSION

*1. PMS NUMBER     _____
#2. NEAR COM ADDR  ___
```

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```
#3. LINK           __
 4. FAR SUBNET ID  _
#5. FAR COM ADDR   ___
#6. APP TYPE       _
#7. TYPE OF MON    _
 8. BLOCK SIZE     1024
 9. SECB           OFF
10. IMPBLCK        OFF
11. AUTO REPORT    N
    ENABLED        N
```

Figure 2 SAMPLE PSUPM FORM 5E18(1) AND LATER SOFTWARE RELEASES

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SEC. 3AB: 5880 RECORD
SIP-T GLOBAL SM - SIPGSM

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking SIP-T (Session Initiation Protocol for Telephones) feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to insert, review, update, or delete the SIP GSM (Global Switching Module).

1.1 Recent Change View

The corresponding Recent Change View for this view is 5.80.

2. FORM ENTRIES - 5880 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * GSM

Description: The GSM field is used to specify the global switching module used to support SIP signaling.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

GSM must be an SM with UNITTYPE set to "SM2000" or "SM2005" and have EQSTATUS set to "O" on the EQIM form (5700 Record).

Every defined (SIPT) GSM must have PI SG 0 EQSTATUS and PI SG 1 EQSTATUS set to "O" on the EQIM form.

When GSM is associated with a SIP-T Packet Group on the PKTGRP form (5219 Record), it must be defined on this form with the no_display field APPLSIPT set to "Y".

SIP-T modules cannot exist for a GSM when SIP-T application is not active on the GSM (i.e.,no_display field APPLSIPT on the SIPGSM form is "N").

When GSM is entered, it must be defined on the EQIM form as an SM with UNIT TYPE set to "SM2000", "SM2005", or "SMU6" and EQSTATUS set to "O".

2.3 # DEMO

Description: The DEMO field is used to specify whether or not the demonstration mode should be on.

Software Release: 5E16(2) FR3 and later
Required field.
Default: N
Valid Entries: Y, N

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Data Rules:

When DEMO is "N", SM USAGE on the EQIM form must be "HIM" or "IM" for this SM.

```
sipgsm                              5ESS Switch              _
                              OFFICE DATA ADMINISTRATION
(5880)                               SIP GLOBAL SM

*1. GSM                 ___
#2. ENABLE SIP PROC N
#3. DEMO                N
```

Figure 1 SAMPLE SIPGSM FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AC: 5881 RECORD
SIP-T CALL PROCESSING SMS - SIPTSMS

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to specify SM-2000 modules in an office for SIP-T call processing.

1.1 Recent Change View

The corresponding Recent Change View for this view is 5.81.

2. FORM ENTRIES - 5881 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * GSM

Description: The GSM field is used to specify the global switching module used to support SIP signaling.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

GSM must be an SM with UNITTYPE set to "SM2000" or "SM2005" and have EQSTATUS set to "O" on the EQIM form (5700 Record).

SIP-T modules cannot exist for a GSM which has DEMO on the SIPGSM form (5880 Record) set to "Y".

When GSM is entered it must be defined as SIP-T GSM on the SIPGSM form (5880 record).

All SIP-T GSMs entered on this form must have a corresponding GSM on the QGCON form (5829 Record).

SIP-T SMS (SIPTSMS)

The following fields (Section 2.3 - Section 2.4) provide information in an office for SIP-T call processing. For more information on this feature, see Division 2, Section 4A684.

2.3 SM2K MODULE

Description: The SM2K MODULE field specifies the SM-2000 call processing SM.

Software Release: 5E16(2) FR3 and later
Valid Entries: 1 - 192

Data Rules:

- **WARNING:** SM2K MODULE in SIP-T SMS list must not equal GSM.

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At least one SM2K MODULE in SIP-T SMS list must be entered.

SM2K MODULE in SIP-T SMS list must be unique.

All SIP-T SM2K MODULEs entered on this form must be defined on the NON-GSM LIST list on the QGCON form (5829 Record).

SM2K MODULE must be an SM with UNITTYPE set to "SM2000" , "SM2005" , or "SMU6", and have EQSTATUS set to "O" on the EQIM form (5700 Record).

2.4 ROUTE

Description: The ROUTE field specifies if message routing is allowed.

Software Release: 5E16(2) FR3 and later
Valid Entries: Y, N

Data Rules:

When ROUTE is known the SM2K MODULE must be entered.

```
siptsms                          5ESS Switch                  _
                            OFFICE DATA ADMINISTRATION
(5881)                       SIP-T CALL PROCESSING SMS

*1. GSM ___                      2. SIP-T SMS (SIPTSMS)
                    SM2K                 SM2K                 SM2K
                ROW MODULE ROUTE  ROW MODULE ROUTE  ROW MODULE ROUTE
                 1   ____    _     9   ____    _     17  ____    _
                 2   ____    _    10   ____    _     18  ____    _
                 3   ____    _    11   ____    _     19  ____    _
                 4   ____    _    12   ____    _     20  ____    _
                 5   ____    _    13   ____    _     21  ____    _
                 6   ____    _    14   ____    _     22  ____    _
                 7   ____    _    15   ____    _     23  ____    _
                 8   ____    _    16   ____    _
```

Figure 1 SAMPLE SIPTSMS FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AD: 5882 RECORD
SIP-T PARAMETERS DEFINITION - SIPTPARM

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to insert, review, update, or delete the SIP-T parameters.

1.1 Recent Change View

The corresponding Recent Change View for this view is 5.82.

2. FORM ENTRIES - 5882 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PARM SET NAME

Description: The PARM SET NAME field specifies the global SIP-T parameter set name.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 20 alphanumeric characters

TIMERS

The following fields (Section 2.3 - Section 2.7) provide information on the transaction times related to the SIP-T feature. For more information on this feature, see Division 2, Section 4A684.

2.3 INVITE TMR

Description: The INVITE TMR field specifies the SIP-T invite transaction timer in seconds.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 32
Valid Entries: 5 - 45

2.4 NON INVITE TMR

Description: The NON INVITE TMR field specifies the SIP-T non invite transaction timer in seconds.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 32
Valid Entries: 5 - 45

2.5 WAIT FOR ACK

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Description: The WAIT FOR ACK field specifies the SIP-T acknowledgement wait timer in seconds.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 32
Valid Entries: 5 - 45

2.6 WAIT FOR UPDATE

Description: The WAIT FOR UPDATE field specifies the length of time in seconds that SIP-T waits for updates.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 32
Valid Entries: 5 - 45

2.7 INIT RETR TMR

Description: This field specifies the initial interval in milliseconds between retransmissions of SIP messages when the IP transport layer is UDP. This field supports the UDP Transport Layer for SIP feature. For more information see Division 2, Section 4A700.

Software Release: 5E16(2) FR5 and later.
Default: 500
Valid Entries: 400 - 1000 ms. in 100 ms increments

2.8 AUTOMATIC ACM TMR

Description: The AUTOMATIC ACM (Address Complete Message) TMR field specifies how long the OPS (Originating Packet Switch) waits for the alerting or answering indication responses from the TPS (Terminating Packet Switch). After this time the default ISUP (ISDN (Integrated Services Digital Network) User Part) ACM is sent. The ACM message will only be sent if the far end user part is ISUP.

Software Release: 5E16(2) and later
Default: 14
Valid Entries: 4 - 14

2.9 WAIT FOR PRACK

Description: This field is used to indicate the time that the TPS (Translations Processing System) will wait for a PRACK (Provisional Response Acknowledgement) to be sent from the OPS (Originating Packet Switch) in reply to a provisional response from the TPS.

Software Release: 5E16(2) FR 6 and later
Required field.
Default: 32
Valid Entries: 1 - 32

PARAMETERS

The following fields (Section 2.10 - Section 2.13) provide information on the parameters related to the SIP-T feature. For more information on this feature, see Division 2, Section 4A684.

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2.10 SIG SERVICE

Description: The SIG SERVICE field specifies the type of signaling service being used.. This corresponds to the TOS (Type of Service) field in the IP header.

Software Release: 5E16(2) FR3 and later
Required field.
Default: TOS
Valid Entries:

Valid SIG SERVICE Entries

Entry	Definition
[D]IFFSERV	Differentiated Service
[T]OS	Type of Service

Data Rules:

When SIG SERVICE is "DIFFSERV", SERVICE CDPT must be between 0 and 63.

2.11 SERVICE CDPT

Description: The SERVICE CDPT field indicates TOS (Type of Service) or DIFFSERV (Differential Service) code point.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 0
Valid Entries: 0 - 127

2.12 # TRUST ISUP

Description: The TRUST ISUP field indicates whether or not the value in ISUP MIME should be used for call processing when a value is also present in the SIP-T header.

NOTE: This field is removed with the 5E16(2) FR 6 software update to support the SIP (Session Initiation Protocol) Enhancements to PSTN Gateway feature (99-5E-8658).

Software Release: 5E16(2) FR3 and later
Required field.
Default: Y
Valid Entries:

Y, N

2.13 # MSG BUNDLE DELAY

Description: The BUNDLE field indicates if outgoing messages should be delayed or sent immediately when SCTP is used as the transport.

Software Release: 5E16(2) FR3 and later
Required field.
Default: N
Valid Entries: Y, N

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2.14 # ISUP ENCAPSULATION

Description: The ISUP ENCAPSULATION parameter is used to determine whether the ISUP encapsulation should be used when generating the INVITE request.

Software Release: 5E16(2) and later
Required field.
Default: Y
Valid Entries: Y, N

2.15 # LIMITED 302 INDICATOR

Description: This field is used to indicate whether or not limited 302 processing is allowed.

Software Release: 5E16(2) FR 6 and later
Required field.
Default: N
Valid Entries: Y, N

2.16 # PRACK ENABLED

Description: This field indicate whether or not PRACK (Provisional Response Acknowledgement) capabilities are enabled for Packet Groups which reference this SIP-T (Session Initiation Protocol for Trunking) Parameter set.

Software Release: 5E16(2) FR 6 and later
Required field.
Default: N
Valid Entries: Y, N

SIP SESSION TIMER EXTENSION

The following fields (Section 2.17 - Section 2.19) were added to support TrFO/RTO Path Minimization feature (99-5E-8694). The feature was first made available in the 5E21(1) Software Release. For more information on this feature, see Division 2, Section

2.17 REFRESHER

Description: The REFRESHER field indicates the Party responsible for session refresher.

Software Release: 5E21(1) and later
Default: UAC
Valid Entries:

Valid Entries REFRESHER

Entry	Definition
UAC	User Agent Client is responsible for the session refresh
UAS	User Agent Server is responsible for the session refresh

Data Rules:

When REFRESHER is entered, SESSION EXP and MIN SE must be entered.

When REFRESHER is not entered, SESSION EXP and MIN SE must be not entered.

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2.18 SESSION EXP

Description: This field indicates session expiration duration. Time is defined in seconds and incremented in 30 seconds increments.

Software Release: 5E21(1) and later
Default: 1800
Valid Entries: Blank, 90 to 7200 in step of 30

Data Rules:

SESSION EXP must equal to or be greater than MIN SE.

2.19 MIN SE

Description: This field indicates the Minimum session duration supported. Time is defined in seconds and incremented in 10 seconds increments.

Software Release: 5E21(1) and later
Default: 90
Valid Entries: 90 to 1800 in step of 10

```
siptparm                          5ESS Switch           _
                            OFFICE DATA ADMINISTRATION
(5882)                      SIP-T PARAMETERS DEFINITION

*1. PARM SET NAME _____________________              PARAMETERS
                                                10. SIG SERVICE        _________
          TIMERS                                11. SERVICE CDPT       ___
 2. INVITE TMR        32                     #12. MSG BUNDLE DELAY    N
 3. NON INVITE TMR    32                     #13. ISUP ENCAPSULATION  Y
 4. WAIT FOR ACK      32                     #14. PRACK ENABLED       N
 5. WAIT FOR UPDATE   32
 7. INIT RETR TMR     500
 8. AUTOMATIC ACM TMR 14
 9. WAIT FOR PRACK    32
```

Figure 1 SAMPLE SIPTPARM FORM 5E16(2) THROUGH 5E20(1) SOFTWARE RELEASES

```
siptparm                          5ESS Switch
SCREEN 1 OF 2               OFFICE DATA ADMINISTRATION
(5882)                      SIP-T PARAMETERS DEFINITION

*1. PARM SET NAME _____________________              PARAMETERS
                                                 9. SIG SERVICE        _________
          TIMERS                                10. SERVICE CDPT       ___
 2. INVITE TMR        32                     #11. MSG BUNDLE DELAY    N
```

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```
 3. NON INVITE TMR    32                #12. ISUP ENCAPSULATION Y
 4. WAIT FOR ACK      32                #13. PRACK ENABLED      Y
 5. WAIT FOR UPDATE   32                 14. INIT MAX FORWARDS  70
 6. INIT RETR TMR     500                15. OPTIONS HB INTRVL  32
 7. AUTOMATIC ACM TMR 14
 8. WAIT FOR PRACK    32
```

```
siptparm                          5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5882)                     SIP-T PARAMETERS DEFINITION

SIP SESSION TIMER EXTENSION
16. REFRESHER   UAC
17. SESSION EXP 1800
18. MIN SE      90
```

Figure 2 SAMPLE SIPTPARM FORM 5E21(1) AND LATER SOFTWARE RELEASES

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SEC. 3AE: 5883 RECORD
PROCESSOR GROUP - PCRGRP

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to insert, review, update, and delete the Processor Group corresponding to either one or two SIP PHs (Protocol Handlers) that function as a serving/non-serving pair.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.16.

2. FORM ENTRIES - 5883 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PCR GRP

Description: The PCR GRP field specifies the Processor Group number.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 24

2.3 * SM

Description: The SM field specifies from which SM (Switching Module) data will be read.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

2.4 APPL TYPE

Description: The APPL TYPE field specifies the application type.

Software Release: 5E16(2) FR3 and later
Required field.
Default: SIPT
Valid Entries: SIPT

Data Rules:

For each PROTOCOL HANDLER field entered on this form with APPL TYPE set t o "SIPT", SM, PSU, SHELF, and POSITION must match SWITCHING MODULE, PSU, PSU SHELF, and PH on the EQPSUPH form (5742 Record), and the corresponding PROTOCOL HANDLER entry on the EQPSUPH form must have EQST set to "O" (Operational) and PH CLI set to 00020000 (PHE2).

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2.5 PSU

Description: The PSU field specifies the Packet Switch Unit number.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 0
Valid Entries: 0

PROTOCOL HANDLERS

The following fields (Section 2.6 - Section 2.8) provide the shelf number, channel group, and the associated position of the PH (Protocol Handler) as it relates to the SIP-T feature. For more information on this feature, see Division 2, Section 4A684.

2.6 SHELF

Description: The SHELF field specifies the Protocol Handler shelf number.

Software Release: 5E16(2) FR3 and later
Valid Entries: 0 - 4

Data Rules:

At least one SHELF/CHGRP/POSITION must be entered.

SHELF/CHGRP/POSITION in PROTOCOL HANDLERS list must be unique.

When SHELF/CHGRP is entered on this form, it must be used on the IPPROC form (5987 Record) as QUALIFIER 3.

Each SHELF/CHGRP combination and each SHELF/CHGRP/POSITION combination on the same SM entered on the PCRGRP form, must be unique.

PHs (SHELF/CHGRP) with the same PCR GRP ans SM entered on this form, must have the same values for parameters on the IPPROC form (5987 Record), and the ETHIP form (5995 Record).

2.7 CHGRP

Description: The CHGRP field specifies the Protocol Handler channel group.

Software Release: 5E16(2) FR3 and later
Valid Entries: 0 - 15

2.8 POSITION

Description: The POSITION field specifies the associated position for Protocol Handler channel groups.

Software Release: 5E16(2) FR3 and later
Valid Entries: 0 - 15

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```
                          OFFICE DATA ADMINISTRATION
(5883)                          PROCESSOR GROUP

*1. PCR GRP   __
*2. SM        ___
 3. APPL TYPE SIPT
 4. PSU       0

  5. PROTOCOL HANDLERS
ROW SHELF CHGRP POSITION
 1    _    __      __
 2    _    __      __
```

Figure 1 SAMPLE PCRGRP FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AF: 5884 RECORD
INTERNET PROTOCOL (IP) PING PARAMETERS - IPPING

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to manage the IP Ping Parameters.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.17.

2. FORM ENTRIES - 5884 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * INTERFACE NAME

Description: This field identifies the name associated with an IP (Internet Protocol).

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: an alphanumeric character followed by 4 to 18 characters including a comma, a underscore, or a dash.

Data Rules:

When INTERFACE NAME is entered, it must be defined on the ETHIP or IPROUT forms (5995/5884 Records).

2.3 * IP ADDRESS

Description: This field represents the IP address of the IP node to be pinged.IP Address used to ping some other IP node through the interface specified.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries:

001 - 126 for Class A,
128 - 191 for Class B,
or 192 - 223 for Class C

Data Rules:

ROUTE METRIC on the IPROUT form (5989 Record) must be defined for each IP address specified in the IP ADDRESS field on this form.

IP ADDRESS must be 001.000.000.001- 126.255.255.254, 128.001.000.001 - 191.254.255.254, or

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192.000.001.001 - 223.255.254.254.

A Class A IP ADDRESS cannot be XXX.000.000.000 or XXX.255.255.255

A Class B IP ADDRESS cannot be XXX.XXX.000.000 or XXX.XXX.255.255

A Class C IP ADDRESS cannot be XXX.XXX.XXX.000 or XXX.XXX.XXX.255

2.4 # PING

Description: This field gives the user the ability to periodically enable/disable the pinging to the gateway routers.

Software Release: 5E16(2) FR3 and later
Required field.
Default: N
Valid Entries: Y, N

2.5 PING INTVL

Description: This field indicates the interval between pings to the gateway routers.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 5
Valid Entries: 2 - 20

2.6 MAX FAIL PINGS

Description: This field represents the maximum number of consecutive failed pings before determining that the router has failed.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 3
Valid Entries: 2 - 5

```
ipping                              5ESS Switch              _
                           OFFICE DATA ADMINISTRATION
(5884)                  INTERNET PROTOCOL (IP) PING PARAMETERS

*1. INTERFACE NAME ____________________
*2. IP ADDRESS     ___.___.___.___
#7. PING           N
 8. PING INTVL     05
 9. MAX FAIL PINGS 3
```

Figure 1 SAMPLE IPPING FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AG: 5885 RECORD
SCTP ENDPOINT PARAMETERS - SCTPPARM

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form supports the definition of SCTP (Stream Control Transport Protocol) endpoint parameters.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.18.

2. FORM ENTRIES - 5885 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PARM SET NAME

Description: The PARM SET NAME field specifies the SCTP endpoint parameters set name.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 20 alphanumeric characters

2.3 RTO INI

Description: The RTO INI field specifies the initial value of retransmission timer (each stored unit is 100 milliseconds).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 10
Valid Entries: 5 - 100

2.4 RTO MIN

Description: The RTO MIN field specifies the minimum value of retransmission timer (each stored unit is 100 milliseconds).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 7
Valid Entries: 5 - 30

2.5 RTO MAX

Description: The RTO MAX field specifies the maximum value in seconds, of retransmission timer (each stored unit is one second).

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Software Release: 5E16(2) FR3 and later
Required field.
Default: 10
Valid Entries: 3 - 60

2.6 RTO ALPHA

Description: The RTO ALPHA field specifies the retransmission constant alpha (each stored unit is one millisecond).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 125
Valid Entries: 80 - 500

2.7 RTO BETA

Description: The RTO BETA field specifies the retransmission constant beta (each stored unit is one millisecond).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 250
Valid Entries: 80 - 500

2.8 VALD COOKIE LIFE

Description: The VALD COOKIE LIFE field specifies the life time of a cookie (each stored unit is one millisecond).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 500
Valid Entries: 200 - 1000

2.9 HB INTRVL

Description: The HB INTRVL field specifies the heartbeat interval (each stored unit is one millisecond).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 10
Valid Entries: 8 - 120

2.10 MAX INIT RETRANS

Description: The MAX INIT RETRANS field specifies the maximum number of retransmissions of INIT (Initialized) datagrams.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 7
Valid Entries: 1 - 20

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2.11 BURST SIZE

Description: The BURST SIZE field specifies the maximum number of bytes that the sender is allowed to transmit.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 4
Valid Entries: 1 - 20

2.12 DELAY ACK TMR

Description: The DELAY ACK TMR (Delay of acknowledgement timer) field specifies how long SCTP will wait before generating an SCTP packet specifically for a SACK (Selective Acknowledge) chunk (each stored unit is one millisecond).

Software Release: 5E16(2) FR3 and later
Required field.
Default: 200
Valid Entries: 100 - 500

2.13 FAST RETRANS CNT

Description: The FAST RETRANS CNT (Fast Retransmit Count) field specifies the number of successive SACKs received indicating a gap before retransmitting a packet.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 8
Valid Entries: 4 - 20

```
sctpparm                          5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(5885)                        SCTP ENDPOINT PARAMETERS

*1. PARM SET NAME    ____________________
 2. RTO INI          10
 3. RTO MIN          7
 4. RTO MAX          10
 5. RTO ALPHA        125
 6. RTO BETA         0250
 7. VALD COOKIE LIFE 0500
 8. HB INTRVL        10
 9. MAX INIT RETRANS  7
10. BURST SIZE        4
11. DELAY ACK TMR    0200
12. FAST RETRANS CNT  8
```

Figure 1 SAMPLE SCTPPARM FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AH: 5886 RECORD
SCTP NEAR ENDPOINT DEFINITION - SCTPNEPD

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to provide information about the SCTP (Stream Control Transport Protocol) near endpoint.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.19.

2. FORM ENTRIES - 5886 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * NEAR ENDPOINT NAME

Description: This field specifies the near SCTP endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

Data Rules:

When NEAR ENDPOINT NAME is entered, MTU ENABLE must be "Y" and PROCESSOR TYPE must be "PH" on the IPPROC form (5987 Record).

NEAR ENDPOINT NAME on the SCTPNEPD form and UDP PATH on the UDPPATH form (5891 Record) cannot be assigned to the same PCR GRP on a given GSM.

2.3 # GSM

Description: The GSM (Global Switching Module) specifies which GSM data is read.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

GSM must be defined on the SIPGSM form (5880 Record).

2.4 # PCR GRP

Description: This field specifies the processor group number.

Software Release: 5E16(2) FR3 and later
Required field.

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Valid Entries: 1 - 24

Data Rules:

PCR GRP must be defined on the PCRGRP form (5883 Record).

2.5 SCTP PORT

Description: This field specifies the SCTP PORT number (identifier) for the SCTP near endpoint number of associated SCTP ports to the near endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 5060
Valid Entries: 0 - 65535

2.6 ENDPOINT PARM SET NAME

Description: This field specifies the SCTP endpoint parameter set.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

Data Rules:

When ENDPOINT PARM SET NAME is entered, it must be defined on the SCTPPARM form (5885 Record).

```
sctpnepd                          5ESS Switch            _
                           OFFICE DATA ADMINISTRATION
(5886)                   SCTP NEAR ENDPOINT DEFINITION

*1. NEAR ENDPOINT NAME     ____________________
#2. GSM                    ___
#3. PCR GRP                __
 4. SCTP PORT              5060
 5. ENDPOINT PARM SET NAME ____________________
```

Figure 1 SAMPLE SCTPNEPD FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AI: 5887 RECORD
SCTP ASSOCIATION PARAMETER SET - ASSCPARM

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form provides information about a set of parameters that will be used for SCTP (Stream Control Transmission Protocol) associations.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.20.

2. FORM ENTRIES - 5887 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * PARM SET NAME

Description: This field specifies the SCTP association parameter set name.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

2.3 # STREAM NEGO

Description: This field specifies whether or not an association may be established if the desired number of outbound streams are not available.

Software Release: 5E16(2) FR3 and later
Required field.
Default: Y
Valid Entries: Y, N

2.4 # PERMANENT

Description: This field specifies whether or not an association will be maintained as a permanent connection.

Software Release: 5E16(2) FR3 and later
Required field.
Default: Y
Valid Entries: Y, N

2.5 INBOUND STREAMS

Description: This field specifies the number of offered inbound streams.

Software Release: 5E16(2) FR3 and later

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Required field.
Default: 32
Valid Entries: 0 - 128

2.6 OUTBOUND STREAMS

Description: This field specifies the number of offered outbound streams.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 32
Valid Entries: 0 - 128

2.7 MAX ASSOC RETRANS

Description: This field specifies the maximum number of retransmissions for an association before the association is declared out-of-service.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 4
Valid Entries: 0 - 32

Data Rules:

MAX ASSOC RETRANS must be between MAX PATH RETRANSS and 2 * MAX PATH RETRANS.

2.8 MAX PATH RETRANS

Description: This field specifies the maximum number of retransmissions of datagrams for an SCTP path before the path is declared out-of-service.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 4
Valid Entries: 0 - 20

```
asscparm                          5ESS Switch            _
                            OFFICE DATA ADMINISTRATION
(5887)                    SCTP ASSOCIATION PARAMETER SET

*1. PARM SET NAME      ______________________
#2. STREAM NEGO        Y
#3. PERMANENT          Y
 4. INBOUND STREAMS    32
 5. OUTBOUND STREAMS   32
 6. MAX ASSOC RETRANS  04
 7. MAX PATH RETRANS   04
```

Figure 1 SAMPLE ASSCPARM FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AJ: 5888 RECORD
SCTP FAR ENDPOINT DEFINITION - SCTPFEPD

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684.This form is used to provide information about the SCTP (Stream Control Transport Protocol) far endpoint.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.21.

2. FORM ENTRIES - 5888 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FAR ENDPOINT NAME

Description: This field specifies the SCTP far endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

Data Rules:

When FAR ENDPOINT NAME is entered, DEST SCTP PORT cannot have identical DEST IP ADDR 1 and/or DEST IP ADDR 2.

2.3 # DEST SCTP PORT

Description: This field specifies the associated SCTP port to this far endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 5060
Valid Entries: 0 - 65535

2.4 # DEST IP ADDR 1

Description: This field specifies the primary IP address associated with this far endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Default: 000 000 000 000
Valid Entries: 0 - 255 (for each set)

Data Rules:

DEST IP ADDR 1 must have a different value from DEST IP ADDR 2.

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DEST IP ADDR1 must be 001.000.000.001- 126.255.255.254, 128.001.000.001 - 191.254.255.254, or 192.000.001.001 - 223.255.254.254.

2.5 DEST IP ADDR 2

Description: This field specifies the primary IP address associated with this far endpoint.

Software Release: 5E16(2) FR3 and later
Valid Entries: 0 - 255 (for each set)

Data Rules:

DEST IP ADDR2 must be 001.000.000.001- 126.255.255.254, 128.001.000.001 - 191.254.255.254, or 192.000.001.001 - 223.255.254.254.

```
sctpfepd                          5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(5888)                      SCTP FAR ENDPOINT DEFINITION

*1. FAR ENDPOINT NAME ________________________
#2. DEST SCTP PORT    5060
#3. DEST IP ADDR 1    ___.___.___.___
 8. DEST IP ADDR 2    ___.___.___.___
```

Figure 1 SAMPLE SCTPFEPD FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AK: 5889 RECORD
SCTP ASSOCIATION - SCTPASSC

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684. This form is used to provide information about the SCTP (Stream Control Transport Protocol) association.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.22.

2. FORM ENTRIES - 5889 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * ASSOC NUMBER

Description: This field specifies the SCTP association identification number.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 1023

Data Rules:

When ASSOC NUMBER is entered with a single IP address far endpoint and SCTP ASSOC PARM SET NAME on this form is equals PARM SET NAME on the ASSCPARM form (5887 Record), MAX ASSOC RETRANS must equal MATH PATH RETRANS on the ASSCPARM form.

When ASSOC NUMBER is entered with multiple IP address far endpoint and SCTP ASSOC PARM SET NAME on this form equals PARM SET NAME on the ASSCPARM form (5887 Record), MAX ASSOC RETRANS must be greater than MATH PATH RETRANS and MAX ASSOC RETRANS must be equal to or less than double MAX PATH RETRANS on the ASSCPARM form.

When ASSOC NUMBER is entered with multiple IP address far endpoint defined on the SCTPFEPD form (5888 Record), SCTP ASSOC PARM SET NAME cannot be set to "DEFAULT".

2.3 # GSM

Description: This field specifies the GSM (Global Switching Module) where data is read.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

GSM must be defined on the SIPGSM form (5880 Record).

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2.4 # NEAR ENDPOINT NAME

Description: This field specifies the near SCTP endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

Data Rules:

NEAR ENDPOINT NAME and FAR ENDPOINT NAME must be unique.

When NEAR ENDPOINT NAME is entered, it must be defined on the SCTPNEPD form (5886 Record).

2.5 # FAR ENDPOINT NAME

Description: This field specifies the far SCTP endpoint.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

Data Rules:

When FAR ENDPOINT NAME is entered, it must be defined on the SCTPFEPD form (5888 Record).

2.6 SCTP ASSOC PARM SET NAME

Description: This field specifies the set of parameters that are used for association.

Software Release: 5E16(2) FR3 and later
Valid Entries: Up to 20 characters

Data Rules:

When SCTP ASSOC PARM SET NAME is entered it must be defined on the ASSCPARM form (5887 Record).

2.7 ASSOCIATION SET NAME

Description: This field specifies the corresponding association set index which identifies association sets that this association is a member of. This is a no_change field.

Software Release: 5E16(2) FR3 and later
Valid Entries: Up to 20 characters.

```
sctpassc                          5ESS Switch                _
                            OFFICE DATA ADMINISTRATION
(5889)                           SCTP ASSOCIATION

*1. ASSOC NUMBER                 _____
#2. GSM                          ___
#3. NEAR ENDPOINT NAME           ____________________
```

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```
#4. FAR ENDPOINT NAME          _____________________
 5. SCTP ASSOC PARM SET NAME   _____________________
    ASSOCIATION SET NAME       _____________________
```

Figure 1 AMPLE SCTPASSC FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AL: 5890 RECORD
ASSOCIATION SET - ASSOCSET

1. GENERAL

Available for 5E16(2) FR3 and later, this form supports the SIP (Session Initiation Protocol) for Packet Trunking feature (99-5E-8382). For more information, see Division 2, Section 4A684.This form is used to provide information about a SCTP (Stream Control Transport Protocol) association set.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.23.

2. FORM ENTRIES - 5890 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * ASSOCIATION SET NAME

Description: This field specifies the name of the set of SCTP associations.

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: Up to 20 characters

2.3 # GSM

Description: This field specifies the GSM (Global Switching Module).

Software Release: 5E16(2) FR3 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

When GSM is entered on this form, it must be defined on the SIPGSM form (5880 Record).

ASSCID (ASSOCIATION IDENTIFICATION NUMBER)

2.4 NBR

Description: This field specifies the identification number of the association.

Software Release: 5E16(2) FR3 and later
Valid Entries: 1 - 1023

Data Rules:

At least one NBR in the ASSOCIATION IDENTIFICATION NUMBER list must be entered.

NBR in ASSOCIATION IDENTIFICATION NUMBER list must be unique.

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When NBR is entered, it must be defined on the SCPTPASSC form (5889 Record).

SCTP association must not appear in more than one association set (ASSOCIATION IDENTIFICATION NUMBER list).

```
assocset                          5ESS Switch            _
                               OFFICE DATA ADMINISTRATION
(5890)                               ASSOCIATION SET

*1. ASSOCIATION SET NAME _____________________    #2. GSM ___

              3. ASSOCIATION IDENTIFICATION NUMBER (ASSCID)
ROW NBR  ROW NBR  ROW NBR  ROW NBR  ROW NBR  ROW NBR  ROW NBR  ROW NBR
 1 _____   9 _____  17 _____  25 _____  33 _____  41 _____  49 _____  57 _____
 2 _____  10 _____  18 _____  26 _____  34 _____  42 _____  50 _____  58 _____
 3 _____  11 _____  19 _____  27 _____  35 _____  43 _____  51 _____  59 _____
 4 _____  12 _____  20 _____  28 _____  36 _____  44 _____  52 _____  60 _____
 5 _____  13 _____  21 _____  29 _____  37 _____  45 _____  53 _____  61 _____
 6 _____  14 _____  22 _____  30 _____  38 _____  46 _____  54 _____  62 _____
 7 _____  15 _____  23 _____  31 _____  39 _____  47 _____  55 _____  63 _____
 8 _____  16 _____  24 _____  32 _____  40 _____  48 _____  56 _____  64 _____
```

Figure 1 SAMPLE ASSOCSET FORM 5E16(2) FR3 AND LATER SOFTWARE RELEASES

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SEC. 3AM: 5935 RECORD
BEARER NETWORK DEFINITION - BEARERNET

1. GENERAL

The 5935 Record is available with 5E16(2) and later Software Releases. It is used to insert, review, update, and delete bearer networks. 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 corresponding Recent Change View for this view is 33.15.

2. FORM ENTRIES - 5935 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * BNID

Description: This field is used to specify a bearer network.

Software Release: 5E16 (2) and later
Required field.
Valid Entries: 1 - 512

2.3 SERVICE TYPE

Description: This field is used to define the type of traffic that will be carried.

Software Release: 5E16(2) and later
Required field.
Default: IPV4
Valid Entries: Enter IPV4

RTP

This section contains information about RTP (Real-Time Transport Protocol).

2.4 RTP PKT INT

Description: This field is used to specify the size, in milliseconds, of a RTP packet.

Software Release: 5E16(2) and later
Required field.
Default: 20
Valid Entries: 10, 20 or 30

2.5 JITTER BUF SZ

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Description: This field is used to specify the size of the jitter buffer in milliseconds.

Software Release: 5E16(2)and later
Required field.
Default: 100
Valid Entries: Enter a multiple of 5 from 10 - 300

2.6 SILENCE SUP

Description: This field is used to specify whether or not silence suppression is enabled.

Software Release: 5E16(2)and later
Required field.
Default: N
Valid Entries: Y, N

When SILENCE SUPP IS "Y", COMFORT NOISE must be "SPEC".

UDP

This section contains information about UDP (User Datagram Protocol).

2.7 ENA UDP CHKSM

Description: This field is used to specify whether or not checksums are enabled.

Software Release: 5E16(2)and later
Required field.
Default: Y
Valid Entries: Y, N

IP

This section contains information about IP (Internet Protocol).

2.8 TIME TO LIVE

Description: This field is used to specify the time to live field in IP datagrams for this bearer network.

Software Release: 5E16(2)and later
Required field.
Default: 64
Valid Entries: 1 - 255

2.9 TYPE OF SERVICE

Description: This field is used to specify the service type used in IP datagrams for this bearer network.

Software Release: 5E16(2) and later
Required field.
Default: 00
Valid Entries: Enter a hexadecimal number from 0 to 7F.

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Data Rules:

For 5E16(2) and later, when TYPE OF SERVICE is not "0", ENA DIFF SERV must be "N".

2.10 ENA DIFF SERV

Description: This field is used to specify whether or not diffserv is enabled.

Software Release: 5E16(2)and later
Required field.
Default: N
Valid Entries: Y, N

ICMP

This section contains information about ICMP (Internet Control Message Protocol.

2.11 ENA ICMP ERR

Description: This field is used to specify whether or not ICMP error message generation is enabled.

Software Release: 5E16(2)and later
Required field.
Default: Y
Valid Entries: Y, N

2.12 COMFORT NOISE

Description: This field is used to specify the type of comfort noise generated.

Software Release: 5E16(2) and later
Required field.
Default: IDLE
Valid Entries:

Valid TYPE Entries	
Entry	**Definition**
HOTH	Hoth Noise
IDLE	Idle Code
SPEC	Spectral Noise

2.13 GROUP CNT

Description: This field is used to indicate the number of packet groups utilizing this bearer network. This is a no change field.

Software Release: 5E16(2) and later
Required field.
Valid Entries: 0 - 65535

2.14 DIFF SERV CNT

Description: This field is used to indicate the number of trunk groups utilizing differentiated services on this bearer network. This is a no change field.

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Software Release: 5E16(2) and later
Valid Entries: 0 - 65535

2.15 BEARER TYPE

Description: This field indicates what kind of traffic the bearer network carries.

Software Release: 5E20(1) and later
Required field.
Valid Entries:

Valid BEARER TYPE Entries

Entry	Definition
OIU	Optical Interface Unit
NPH	Network Protocol Handler

Data Rules:

When BEARER TYPE is "NPH", TONE ANNC on the PKTGRP form (5219 Record) must be entered.

SUPPORTED CODEC LIST

These fields (Section 2.16 - Section 2.19) are used to define the supported codec list per BNID (Bearnet ID).

2.16 CODEC

Description: This field indicates the supported Codec Type of a specific BNID.

Software Release: 5E20(1) and later
Required field.
Valid Entries:

Valid CODEC Entries

Entry	Definition
CN	Channel Number
DTMF	Dual Tone Multifrequency
EVRC0	Enhanced Variable Rate Codec 0
LUEVRCB0	Lucent Proprietary name for EVRC-B
PCMU	Pulse Code Modulation Unit

Data Rules:

When CODEC is "'DTMF", "'EVRC0", or "LUEVRCB0", PAY LOAD TYPE NUM must be 96 - 127.

When CODEC is "PCMU", PAY LOAD TYPE NUM must be 0.

When CODEC is "DTMF" or "EVRC0", PAY LOAD TYPE NUM must be entered.

When CODEC is "DTMF", SILENCE SUP must not be entered.

When CODEC is "CN", PAY LOAD TYPE NUM must be 13.

When CODEC is "'CN", SILENCE SUP and PKT INTERVAL must not be entered.

2.17 PAY LOAD TYPE NUM

Description: This field indicates the pay load type of a supported Codec of a specific BNID.

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Software Release: 5E20(1) and later
Required field.
Valid Entries:

Valid PAYLOAD TYPE NUM Entries

Entry	Definition
CN	13
DTMF	96 - 127
EVRC0	96 - 127
LUEVRCB0	96 - 127
PCMU	0

0, 13, or 96 - 127

Data Rules:

The value for each PAYLOAD TYPE NUM must be unique.

2.18 SILENCE SUP

Description: This field indicates whether or not silence suppression is enforced for a supported Codec of a specific BNID. This field is only used when CODEC is G711 or EVRC.

Software Release: 5E20(1) and later
Required field.
Valid Entries: Y, N

Data Rules:

When SILENCE SUP is "Y" for PCMU, there must be 1 and only 1 CN entry provisioned on the CODEC LIST.

When SILENCE SUP is "N". for PCMU, CN must not be provisioned on the CODEC LIST.

2.19 PKT INTERVAL

Description: The PKT INTERVAL field indicates the packetizing interval of a supported Codec of a specific BNID. For CN its value must be 13.For PCMU its value could be 10, 20 and 30. For EVRC0 and LUEVRCB0 it must be 20. For DTMF this field must be blank.

Software Release: 5E20(1) and later
Required field.
Valid Entries: 10, 20, or 30

```
bearernet                          5ESS Switch
                                OFFICE DATA ADMINISTRATION
(5935)                           BEARER NETWORK DEFINITION

*1. BNID          ___                      IP
 2. SERVICE TYPE IPV4          8. TIME TO LIVE    64
                               9. TYPE OF SERVICE 00
         RTP                 10. ENA DIFF SERV   N
 3. RTP PKT INT   20
 4. JITTER BUF SZ 100                 ICMP
```

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```
 6. SILENCE SUPP  N      11. ENA ICMP ERR Y

        UDP              21. COMFORT NOISE IDLE
 7. ENA UDP CHKSM Y
                             GROUP CNT     _____
                             DIFF SERV CNT _____
```

Figure 1 SAMPLE BEARERNET FORM 5E16(2) THROUGH 5E19(1) SOFTWARE RELEASES

```
bearernet                          5ESS Switch
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5935)                      BEARER NETWORK DEFINITION

*1. BNID          ___                 IP              23. BEARER TYPE NPH
 2. SERVICE TYPE IPV4      8. TIME TO LIVE    64
                           9. TYPE OF SERVICE 00
         RTP              10. ENA DIFF SERV   N
 3. RTP PKT INT   20
 4. JITTER BUF SZ 100            ICMP
 6. SILENCE SUPP  N       11. ENA ICMP ERR Y

        UDP               20. COMFORT NOISE IDLE
 7. ENA UDP CHKSM Y
                             GROUP CNT     _____
                             DIFF SERV CNT _____
```

```
bearernet                          5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5935)                      BEARER NETWORK DEFINITION

        24. SUPPORTED CODEC LIST
          PAY           SILENCE PKT
ROW CODEC LOAD TYPE NUM SUP     INTERVAL
 1  ______      ___        _       __
 2  ______      ___        _       __
 3  ______      ___        _       __
 4  ______      ___        _       __
 5  ______      ___        _       __
 6  ______      ___        _       __
 7  ______      ___        _       __
 8  ______      ___        _       __
```

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```
bearernet                          5ESS Switch
SCREEN 3 OF 3                OFFICE DATA ADMINISTRATION
(5935)                        BEARER NETWORK DEFINITION

          24. SUPPORTED CODEC LIST
            PAY              SILENCE PKT
ROW CODEC LOAD TYPE NUM SUP     INTERVAL
  9 ______      ___          _       __
 10 ______      ___          _       __
 11 ______      ___          _       __
 12 ______      ___          _       __
 13 ______      ___          _       __
 14 ______      ___          _       __
 15 ______      ___          _       __
 16 ______      ___          _       __
```

Figure 2 SAMPLE BEARERNET FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AN: 5891 RECORD
UDP PATH DEFINITION - UDPPATH

1. GENERAL

Available for 5E16(2) FR5 and later, this form supports the UDP (User Data Protocol) Transport Layer for SIP (Session Initiation Protocol) feature (99-5E-8581). For more information, see Division 2, Section 4A700. This form is used to insert, review, update, and delete the UPD Path used to identify the near and far IP addresses and UDP ports to be used for IP transport of SIP-T (SIP for Telephony) signaling messages.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.24.

2. FORM ENTRIES - 5891 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * UPD PATH

Description: This field is used to indicate the UDP Path number.

Software Release: 5E16(2) FR5 and later
Required field.
Valid Entries: 1 - 1023

Data Rules:

When UDP PATH is defined on UDPPATH form, it has PCRGRP and GSM entered. The combination of PCRGRP,GSM is defined on PCRGRP form (5883 Record) with the PHs on the PROTOCOL HANDLERS list. For these PHs (SHELF/CHGRP) entered on the list the ETHIP form (5995 Record) must be defined.

This form cannot be populated when the ACT field for SFID 700 on the SFSYS form (5713-1 Record) is set to "N".

2.3 # GSM

Description: This field specifies the Global Switching Module.

Software Release: 5E16(2) FR5 and later
Required field.
Valid Entries: 1 - 192

Data Rules:

GSM on this form must be defined on the SIPGSM form (5880 Record) with the no_display field APPLSIPT set to "Y".

2.4 PSU

Description: This field specifies the Packet Switch Unit number.

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Software Release: 5E16(2) FR5 and later
Required field.
Default: 0
Valid Entries: 0

2.5 # PCR GRP

Description: This field specifies the Processor Group number..
Required field.

Software Release: 5E16(2) FR5 and later
Valid Entries: 1 - 24

Data Rules:

A combination of PCR GRP, GSM, and PSU on the UDPPATH form must be defined on the PCRGRP form (5883 Record).

The combination of PCR GRP, GSM, PSU, NEAR PORT, FAR PORT, and FAR IP ADDR fields on this form must be unique to one UDP PATH.

2.6 NEAR PORT

Description: This field specifies the Near UDP Port number.
Required Field.

Software Release: 5E16(2) FR5 and later
Default: 5060
Valid Entries: 1024 - 32767

2.7 # FAR IP ADDR

Description: This field specifies IP address associated to this far endpoint.
Required field.

Software Release: 5E16(2) FR5 and later
Valid Entries:

For IP Address set 1:

001 - 126 for Class A

128 - 191 for Class B or

192 - 223 for Class C

For IP Address set 2, 3, and 4:

0 - 255

Data Rules:

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FAR IP ADDR on this form cannot be the same as GATEWAY IP ADDRESS on the ETHIP form (5995 Record) for the PHs (SHELF/CHGRP).

FAR IP ADDR on this form masked with the IP SUBNET MASK 1 on the ETHIP form must equal the GATEWAY IP ADDRESS 1 masked with the IP SUBNET MASK 1 on the ETHIP form. Or if FAR IP ADDR on this form masked with the IP SUBNET MASK 1 on the ETHIP form is not equal to the GATEWAY IP ADDRESS 1 masked with the IP SUBNET MASK 1 on the ETHIP form, then an IPROUT form (5989 Record) must exist for related INTERFACE NAME to provide an IP routing between the near and far IP addresses of the UDP PATH.

2.8 FAR PORT

Description: This field specifies theFar UDP Port number.
Required Field.

Software Release: 5E16(2) FR5 and later
Default: 5060
Valid Entries: 0 - 65535

```
udppath                          5ESS Switch            _
                            OFFICE DATA ADMINISTRATION
(5891)                          UDP PATH DEFINITION

*1. UDP PATH     ___
#2. GSM          ___
 3. PSU          0
#4. PCR GRP      __
 5. NEAR PORT    5060
#6. FAR IP ADDR  ___.___.___.___
11. FAR PORT     5060
```

Figure 1 SAMPLE UDPPATH FORM 5E16(2) FR5 AND LATER SOFTWARE RELEASES

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SEC. 3AO: 5892 RECORD
PROTOCOL HANDLER GROUP DEFINITION - PHGRP

1. GENERAL

Available for 5E19(1) FR 1 and later, this form allows the user to define and specify parameters for a group containing two PH (Protocol Handler). This form supports the IP Backhaul feature (99-5E-8530) and the IP Soft Handoff feature (99-5E-8688). For more information on these features see Division 2, Section 7CN and Division 2, Section 4A774, respectively.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.32.

2. FORM ENTRIES - 5892 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: This field is to identify the Switching Module being used.

Required field.

Software Release: 5E19(1) FR 1 and later
Valid Entries: 1 - 192

Data Rules:

SM, PSU, SHELF, and CHL GRP combination defined on this form must first be defined as SM, PSU, PSU SHELF, and CHL GRP on the PSUGP form (5949 Record).

SM, PSU, SHELF, and CHL GRP must correspond to a Protocol Handler Logical Channel Group with a PH TYPE of "PHE4" on the PSUGP form (5949 Record).

When SM and PSU combination on this form matches with SWITCHING MODULE and PSU on the EQPSU form (5741 Record), there must only be one tuple with an APP TYPE of "IPSHO" on the PHGRP form.

2.3 * PSU

Description: This field indicated the Packet Switching Unit number.

Required field.

Software Release: 5E19(1) FR 1 and later
Valid Entries: 0 or 1

2.4 * PH GROUP

Description: This field specifies the number for the Protocol Handler Group.

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Required field.

Software Release: 5E19(1) FR 1 and later
Valid Entries:

1 - 10 (5E19(1) FR 1)
1 - 20 (5E20(1) and later

2.5 APP TYPE

Description: This field is used to specify what application type that this PH GROUP supports.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: IPBPH
Valid Entries:

Valid APP TYPE Entries

Entry	Definition
IPBPH	IP Backhaul
NPH	Network Protocol Handler
IPSHO	IP (Internet Protocol) Soft Handoff

Data Rules:

For 5E20(1) and later:

When APP TYPE is "IPBPH":

SM, PSU, SHELF, and CHL GRP must correspond to the Protocol Handler Logical Channel Group with PH TYPE of "PHE3" on the PSUGP form (5949 Record).

SECONDARY ADDR, DIFF SRV CODE POINT, INHIBIT CALL PROC, BHA BASE UDP PORT, BHA PRE PORT, BHA QUALITY, BHA INACT TIMER, UDPMUX BUNDLE SZ, UDPMUX BUNDLE TRM 1, and UDPMUX BUNDLE TRM 2 must be entered.

PKT BUS INTRVL must divide evenly into 3000.

PH TYPE must be "PHE3".

PH GROUP must be 1 - 10.

SHELF in PH LIST must be unique.

When APP TYPE is not "IPBPH":

BHA BASE UDP PORT, BHA PRE PORT, BHA QUALITY, BHA INACT TIMER, UDPMUX BUNDLE SZ, UDPMUX BUNDLE TRM 1, and UDPMUX BUNDLE TRM 2 must be blank.

When APP TYPE is "IPSHO":

SM, PSU, SHELF, and CHL GRP must correspond to the Protocol Handler Logical Channel Group with

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PH TYPE of "PHE4" on the PSUGP form (5949 Record).

When SM, PSU combination on this form has an APP TYPE equal to "IPSHO", IP TRAFFIC STATE on the CA2IPMAP form (5897 Record) must match with IP TRAFFIC STATE on this form.

SHELF must be 4.

PKT BUS INTRVL must be 50 - 100 by 50.

EXT L1 OVRLD THRESHOLD and EXT L2 OVRLD THRESHOLD must be entered.

EXT L1 OVRLD THRESHOLD must be less than EXT L2 OVRLD THRESHOLD.

HIGH DSCP, LOW DSCP, OAM DSCP, HEART BEAT FREQ, and HEART BEAT LDI must be entered.

PH TYPE must be "PHE4".

When APP TYPE is not "IPSHO":

EXT L1 OVRLD THRESHOLD, EXTL2 OVRLD THRESHOLD, HIGH DSCP, LOW DSCP, OAM DSCP, HEART BEAT FREQ, HEART BEAT LDI, and IP TRAFFIC STATE must be blank.

When APP TYPE is "NPH":

UDP START PORT, INHIBIT CALL PROC, DIFF SRV CODE POINT, NPH PRE PORT, NPH QUALITY, UDP BLOCK SIZE must be entered.

there can only be a maximum of nine PH GROUPS defined for a particular SM and PSU.

SECONDARY ADDR must be entered.

PH TYPE must be "PHE3".

When APP TYPE is not "NPH":

UDP START PORT, NPH PRE PORT, NPH QUALITY, UDP BLOCK SIZE, and BNID must be blank.

a corresponding BEARERNET form (5935 Record) with BRRTYPE

When APP TYPE is "IPBPH", "IPSHO", or "NPH":

When SM, PSU, SHELF, CHL GRP combination exist and APP TYPE is "IPBPH", "IPSHO", or "NPH", there must be at least one LOCAL IP ADDR and IP SUBNET MASK entered on the IPPROC form (5987 Record).

When APP TYPE is not "IPBPH" or "NPH":

INHIBIT CALL PROC, SECONDARY ADDR, and DIFF SRV CODE POINT must be blank.

When APP TYPE is "IPSHO" or "NPH":

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PKT BUS INTRVL must divide evenly into 3000.

CON CHK HIGH INT must not be greater than CON CHK LOW INT.

For 5E21(1) and later:

When APP TYPE is "IPBPH" on the PHGRP form, PH TYPE must be "PHE3" or "PHE4" and EXT L1 OVRLD THRESHOLD must be less that EXT L2 OVRLD THRESHOLD,

When APP TYPE is "IPBPH" and PH TYPE is "PHE3", PKT BUS INTRVL must divide evely into 3000.

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 (5949 Record).

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 (5949 Record).

When APP TYPE is "IPBPH" on the PHGRP form, SM, PSU, SHELF, and CHL GRP must correspond to the Protocol Handler Logical Channel Group with PH TYPE of "PHE3" or "PHE4" on the PSUGP form (5949 Record).

PROTOCOL HANDLERS (PHLIST)

These fields (Section 2.6 - Section 2.9) define the Protocol Handler Group list (up to 10 entries) consisting of the shelf, channel group number, position, and protocol handler type.

2.6 SHELF

Description: This field is used to specify the PSU (Packet Switch Unit) shelf where the PH is located.

Software Release: 5E19(1) FR 1 and later
Valid Entries: 0 - 4

Data Rules:

Each SHELF and CHL GRP combination on the same SM and PSU entered on this form must be unique.

When SHELF/CHL GRP have values with the same SM, PSU, and PH GROUP entered on this form, these values must be the same as the values for GATEWAY IP ADDRESS 2 defined on the ETHIP form (5995 Record) that matches the SM/PSU on the PHGRP form.

When SHELF/CHL GRP have values with the same SM, PSU, and PH GROUP entered on this form, these values must have a unique GATEWAY IP ADDRESS 1 defined on the ETHIP form (5995 Record) that matches the SM/PSU on the PHGRP form.

When SHELF/CHL GRP have values with the same SM, PSU, and PH GROUP entered on this form, these values must have the same values for GATEWAY IP ADDRESS 2 defined on the ETHIP form that matches the SM/PSU on the PHGRP form.

When SHELF/CHL GRP have values with the same SM, PSU, and PH GROUP entered on this form, these values must have the same values for IP SUBNET MASK (1/2) defined on the ETHIP form that matches the

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SM/PSU on the PHGRP form.

When SHELF/CHL GRP have values with the same SM, PSU, and PH GROUP entered on this form, these values must have the same values for MTU, SIZE, RATE, and MODE defined on the ETHIP form that matches the SM/PSU on the PHGRP form.

SHELF/CHL GRP with the same SM. PSU, and PH GROUP entered on this form, these values must have the same values for the following parameters on the IPPROC form:

TCP START PORT,

TCP MSS,

TCP DEF TTL,

REASSEM TIMER,

ICMP ERR CNT,

MTU ENABLE,

MTU DISC,

OVLD TRIG,

UDP CHKSUM EN,

UDP START PORT,

UDP DEF TTL,

REFRESH INTRVL,

CLEANUP INTRVL,

ICMP ERR GEN,

MTU INTVL AFT FAIL, and

IP FRAGMENT must be "N".

For each PROTOCOL HANDLER entered on this form, the SM, PSU, SHELF, and POSITION must match respectively with SWITCHING MODULE, PSU, PSU SHELF, and PH CLI on the EQPSUPH form and have EQST set to "O", PH CLI set to 00080000 (PHE3), and PH CLI set to either 80000h (PHE3) or 100000h (PHE4).

SHELF/POSITION fields must be unique.

SHELF, CHL GRP, and PH TYPE fields must be entered for all rows.

2.7 CHL GRP

Description: This field is used to designate a channel group on the SHELF for this PH group.

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Software Release: 5E19(1) FR 1 and later
Valid Entries: 0 - 15

2.8 POSITION

Description: This field is used to define the PH pack position on the PSU shelf.

Software Release: 5E19(1) FR 1 and later
Valid Entries: 0 - 15

Data Rules:

POSITION must be blank during a delete.

POSITION fields must both be entered or both be blank.

2.9 PH TYPE

Description: This field is used to specify the hardware type of the PHs assigned on the PH list.

Software Release: 5E19(1) FR 1 and later
Valid Entries:

Valid PH TYPE Entries

Entry	Definition
PHE3	Protocol Handler Ethernet (version 3)
PHE4	Protocol Handler Ethernet (version 4)

Data Rules:

PH TYPEs must be equal.

For 5E21(1) and later:

When PH TYPE is PHE4,

PKT BUS INTRVL must be 50 - 1000 by 50.

BHA BASE UDP PORT must be 2048 - 64512 by 1024.

BHA PRE PORT must be less than BHA BASE UDP PORT or BHA PRE PORT must be greater than BHA BASE UDP PORT plus 1023.

APP TYPE cannot be "NPH".

GENERAL PARAMETERS

These fields (Section 2.10 - Section 2.25) define various general parameters.

2.10 SECONDARY ADDR

Description: This field is used to define the PH address used by PBMAX to pass packet bus frames to the BPH (Backhaul PH) NP (Network Processor).

Software Release: 5E19(1) FR 1 and later

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Valid Entries: 86, 88, 90, 92 - 95, 100, or 111 - 125

Data Rules:

SECONDARY ADDR values within an SM/PSU combination on this form must be unique.

2.11 PKT BUS INTRVL

Description: This field is used to specify the packet bus occupancy sampling interval.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 5
Valid Entries: 1 - 1000

2.12 L1 OVRLD THRESHOLD

Description: This field is used to specify the level 1 overload threshold as a percentage for the link between the PHs and the PF (Packet Fanout).

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 65
Valid Entries: 50 - 70 bytes in increments of 5

Data Rules:

LI OVRLD THRESHOLD must be less than L2 OVRLD THRESHOLD.

2.13 L2 OVRLD THRESHOLD

Description: This field is used to specify the level 2 overload threshold as a percentage for the link between the PHs and the PF (Packet Fanout).

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 85
Valid Entries: 50 - 90 bytes in increments of 5

2.14 CONN CHK ENABLED

Description: This field is used to specify whether or not the default router connectivity checking is enabled.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: Y
Valid Entries: Y, N

2.15 CON CHK HIGH INT

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Description: This field specifies the size in 100 millisecond increments of the connectivity check IP ping interval.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 10
Valid Entries: 5 - 20 in 100 millisecond increments

2.16 CON CHK LOW INT

Description: This field is used to specify the low frequency connectivity check interval, represented in multiples of 100 milliseconds.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 300
Valid Entries: 10 - 600

2.17 CONN CHK MAX FAIL

Description: This field specifies the maximum number of consecutive connectivity check failures allowed .

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 3
Valid Entries: 1 - 30

2.18 SW OVR TIMER

Description: This field specifies the size in seconds of the SWITCH OVER TIMER.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 2
Valid Entries: 2 - 60

2.19 DIFF SRV CODE POINT

Description: This field specifies different quality of service parameters including precedence, delay, throughput, and reliability.

- **WARNING:** Updates to DIFF SRV CODE POINT may have an effect may require updates on the router.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 2Eh
Valid Entries: 0h - FCh in increments of 4

2.20 DEBUGFLAGS

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Description: This field is used as a flag.This is a No Display field.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 0
Valid Entries: 0 - ffffffff hex

2.21 RCV ICMP THRSH

Description: This field specifies the threshold for received ICMP (Internet Control Message Protocol) messages.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 100
Valid Entries: 0 - 500, or OFF

2.22 INHIBIT CALL PROC

Description: This field specifies whether or not call processing is being inhibited.This field is a No Display field.

Required field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.23 AVG DELAY THRESHOLD

Description: The AVG DELAY THRESHOLD field is used to specify the average round trip delay threshold for test commands, represented in microseconds.
Required field.

Software Release: 5E20(1) and later
Default: 1000
Valid Entries: 500 - 200000

2.24 95 PCT DELAY THRESHOLD

Description: This field is used to specify the average round trip delay threshold for test commands, represented in microseconds.

Required field.

Software Release: 5E20(1) and later
Default: 1000
Valid Entries: 500 - 200000

2.25 DELAY PERCENTAGE

Description: This field is used to specify the Percent Test Delay threshold test to determine the success or

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failure of network test commands.

Required field.

Software Release: 5E20(1) and later
Default: 95
Valid Entries: 1 - 100

IP BACKHAUL PARAMETERS

These fields (Section 2.26 - Section 2.34) define the Internet Protocol Backhaul parameters.

2.26 BHA BASE UDP PORT

Description: The BHA BASE UDP PORT field is used to specify the base UDP (User Datagram Protocol) port number to be used by IP (Internet Protocol) backhaul PHs (Protocol Handlers).

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 50176
Valid Entries: 1280 - 65280 by 256

2.27 BHA PRE PORT

Description: This field is used to specify the predefined UDP port number to be used by the IP backhaul PH.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 50175
Valid Entries: 0 - 65535

Data Rules:

BHA PRE PORT must either be less than BHA BASE UDP PORT or greater than (BHA PRE PORT plus 255).

2.28 BHA QUALITY

Description: This field is used to specify the maximum percentage of PHA (Protocol Handler for ATM (Asynchronous Transfer Mode)) protocol violations detected in a 30 second period.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 0
Valid Entries: 0 - 100

2.29 BHA INACT TIMER

Description: This field is used to specify the number of seconds during which no XIDTEST frame received on a BHA (Busy Hour Call Attempts) that will result in the BPH (Backhaul PH) clearing of the BHA.

Required field.

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Software Release: 5E19(1) FR 1 and later
Default: 10
Valid Entries: 0 (OFF), or 6 - 30

2.30 UDPMUX BUNDLE SZ

Description: This field is used to specify the size in bytes of a UDPMux (UDP Multiplexer) bundle.This field is a No Display field.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 320
Valid Entries: 256 - 1470

2.31 UDPMUX BUNDLE TMR 1

Description: This field is used to specify the size in milliseconds of the bundling timer T1.

This is a No Display field.

Required field.

Software Release: 5E19(1)FR 1 and later
Default: 2000
Valid Entries: 0 - 5000 by 125

Data Rules:

UDPMUX BUNTLE TMR 1 must be greater than or equal to UDPMUX TMR 2.

2.32 UDPMUX BUNDLE TMR 2

Description: This field is used to specify the size in milliseconds of the UDPMUX bundling timer T2.This is a No Display field.

Required field.

Software Release: 5E19(1) FR 1 and later
Default: 1000
Valid Entries: 0 - 5000 by 125

Data Rules:

UDPMUX BUNDLE TMR 2 must be less than or equal to UDPMUX BUNDLE TMR 1.

2.33 NP ERFRM TFR THRHLD

Description: This field identifies the network processor error frame transfer threshold.

Required field for 5E19(1) and no_display in 5E20(1).

Software Release: 5E19(1) FR 1 and later
Default: 0

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Valid Entries: 0 - 15

2.34 NP MAX ALW TRANS BUF

Description: This field specifies the maximum number of network processor buffers available for packing and transmitting frames.

Required field.

Software Release: 5E19(1) FR 1
Default: 3000
Valid Entries: 0 - 32767

IPSHO PARAMETERS

These fields (Section 2.35 - Section 2.45) define the Internet Protocol Software Handoff parameters.

2.35 EXT L1 OVRLD THRESHOLD

Description: This field is used to specify the level 1 overload threshold as a percentage for the connection between the PHs (Protocol Handlers) and the far end.

Software Release: 5E20(1) and later
Valid Entries: 30 - 70 in increments of 5

2.36 EXT L2 OVRLD THRESHOLD

Description: This field is used to specify the level 2 overload threshold as a percentage for the connection between the PHs and the far end.

Software Release: 5E20(1) and later
Valid Entries: 30 - 90 in increments of 5

2.37 HIGH DSCP

Description: This field is used to specify the value of the differentiated service code point value that will be set in the "type of service" field in high priority traffic IP (Internet Protocol) packets.

Software Release: 5E20(1) and later
Valid Entries: 2Eh

2.38 LOW DSCP

Description: This field is used to specify the value of the differentiated service code point value that will be set in the "type of service" field in low priority traffic IP packets.

Software Release: 5E20(1) and later
Valid Entries: 2Eh

2.39 OAM DSCP

Description: This field is used to specify the value of the differentiated service code point value that will be set in the "type of service" field in Operations, Administration and Maintenance.

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Software Release: 5E20(1) and later
Valid Entries: 2Eh

2.40 LOW UDP

Description: This field is used to specify the pre-defined UDP port number for Low Priority traffic. This is a no_change field.

Software Release: 5E20(1) and later
Valid Entries: 55001

2.41 OAM UDP

Description: The OAM UDP PORT field is used to specify the pre-defined UDP port number for Operations, Administration, and Maintenance.traffic. This is a no_change field.

Software Release: 5E20(1) and later
Valid Entries: 55002

2.42 NETWORK TEST UDP

Description: This field is used to specify the pre-defined UDP port number for Network test messages. This is a no_change field.

Software Release: 5E20(1) and later
Valid Entries: 55003

2.43 HEART BEAT FREQ

Description: This field is used to specify the Heartbeat message frequency, expressed in milliseconds.

Software Release: 5E20(1) and later
Default: 1000
Valid Entries: 500 - 5000

2.44 HEART BEAT LDI

Description: This field is used to specify the Heartbeat lost declaration indicator, expressed in the number of consecutive unacknowledged heartbeat messages.

Software Release: 5E20(1) and later
Default: 3
Valid Entries: 3 - 5

2.45 IP TRAFFIC STATE

Description: This field is used as the IP Traffic State Indicator

Software Release: 5E20(1) and later
Valid Entries:

Valid IP TRAFFIC STATE Entries

Entry	Definition
G	Growth

M	Maintenance
O	Operational

NPH PARAMETERS

These fields (Section 2.46 - Section 2.54) define the Network Protocol Handler parameters.

2.46 UDP START PORT

Description: This field represents the lowest port number for user datagram protocol connections.

Software Release: 5E22(1) and later
Valid Entries: 8192 - 57344 in multiples of 8192

Data Rules:

When NETWORK PHs can only be provisioned if the ACT field for SFID 775 is "Y" (TrFO/RTO feature is active; see Division 2, Section 4A775.).

2.47 UDP BLOCK SIZE

Description: This field represents the size number value associated with the Network PHE (Packet Handler for Ethernet).

Software Release: 5E20(1) and later
Valid Entries: 1024 - 8192 in multiples of 1024

2.48 NPH QUALITY

Description: This field is used to specify the maximum percentage of protocol violations detected in a 30 second period.

Required field.

Software Release: 5E20(1) and later
Default: 0
Valid Entries: 0 - 100

2.49 BNID

Description: This field is used to specify which Bearer network this PH Group belongs to.

Software Release: 5E20(1) and later
Valid Entries: 1 - 512

2.50 NPH NETWORK TEST UDP

Description: This field is used to specify the pre-defined UDP port number for Network test messages. This is a no_change field.

Software Release: 5E20(1) and later
Valid Entries: 55003

2.51 NPH OAM UDP

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Description: This field is used to specify the pre-defined UDP port number for Operations, Administration, and Maintenance.traffic. This is a no_change field.

Software Release: 5E20(1) and later
Valid Entries: 55002

2.52 HAIRPIN MONTORING

Description: This field is used to enable NPH hairpin monitoring.

Software Release: 5E20(1) and later
Valid Entries: Y, N

2.53 NPH HEART BEAT FREQ

Description: This field is used to specify the Heartbeat message frequency, expressed in milliseconds.

Software Release: 5E20(1) and later
Valid Entries: 500 - 5000

2.54 NPH HEART BEAT LDI

Description: This field is used to specify the Heartbeat lost declaration indicator, expressed in the number of consecutive unacknowledged heartbeat messages.

Software Release: 5E20(1) and later
Valid Entries: 3 - 5

```
phgrp                              5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5892)                   PROTOCOL HANDLER GROUP DEFINITION

*1. SM        ___                    #11. SECONDARY ADDR      ___
*2. PSU       _                       12. PKT BUS INTRVL      5
*3. PH GROUP __                       13. L1 OVRLD THRESHOLD  65
 4. APP TYPE IPBPH                    14. L2 OVRLD THRESHOLD  85
                                      15. CONN CHK ENABLED    Y
 5. PROTOCOL HANDLERS (PHLIST)        16. CONN CHK INTRV HIGH 10
              CHL          PH         17. CONN CHK MAX FAIL   3
ROW PH  SHELF GRP POSITION TYPE       18. SW OVR TIMER        2
 1   0    _   __     __    _____      19. DIFF SRV CODE POINT 2E
 2   1    _   __     __    _____      20. DEBUGFLAGS          00000000
```

```
phgrp                              5ESS Switch
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5892)                   PROTOCOL HANDLER GROUP DEFINITION

    IP BACKHAUL PARAMETERS
```

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```
21. BHA BASE UDP PORT    50176
22. BHA PRE PORT         50175
23. BHA QUALITY          0
24. BHA INACT TIMER      10
25. UDPMUX BUNDLE SZ     322
26. UDPMUX BUNDLE TMR 1  2000
27. UDPMUX BUNDLE TMR 2  1000
28. CONN CHK INTRVL LOW  300
29. NP ERFRM TFR THRHLD  0
30. NP MAX ALW TRANS BUF 3000
31. RCV ICMP MSG THRHLD  100
```

Figure 1 SAMPLE PHGRP FORM 5E19(1) SOFTWARE RELEASE

```
phgrp                              5ESS Switch
SCREEN 1 OF 4              OFFICE DATA ADMINISTRATION
(5892)                  PROTOCOL HANDLER GROUP DEFINITION

*1. SM       ___                        GENERAL PARAMETERS
*2. PSU      _                      11. SECONDARY ADDR     ___
*3. PH GROUP __                     12. PKT BUS INTRVL     5
#4. APP TYPE _________              13. L1 OVRLD THRESHOLD 65
                                    14. L2 OVRLD THRESHOLD 85
 5. PROTOCOL HANDLERS (PHLIST)      15. CONN CHK ENABLED   Y
              CHL          PH       16. CON CHK HIGH INT   10
ROW PH  SHELF GRP POSITION TYPE     17. CON CHK LOW INT    300
 1   0    _   __     __    _____    18. CONN CHK MAX FAIL  3
 2   1    _   __     __    _____    19. SW OVR TIMER       2
```

```
phgrp                              5ESS Switch
SCREEN 2 OF 4              OFFICE DATA ADMINISTRATION
(5892)                  PROTOCOL HANDLER GROUP DEFINITION

    GENERAL PARAMETERS cont.            IP BACKHAUL PARAMETERS
20. DIFF SRV CODE POINT __          26. BHA BASE UDP PORT   _____
21. RCV ICMP THRSH      100         27. BHA PRE PORT        _____
22. AVG DELAY THRESHOLD 1000        28. BHA QUALITY         ___
23. PCT DELAY THRESHOLD 1000        29. BHA INACT TIMER     __
24. DELAY PERCENTAGE    095         30. UDPMUX BUNDLE SZ    ____
25. DEBUGFLAGS          00000000    31. UDPMUX BUNDLE TMR 1 ____
                                    32. UDPMUX BUNDLE TMR 2 ____
```

```
phgrp                              5ESS Switch
```

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```
SCREEN 3 OF 4              OFFICE DATA ADMINISTRATION
(5892)                  PROTOCOL HANDLER GROUP DEFINITION

        IPSHO PARAMETERS             44. IP TRAFFIC STATE G
33. EXT L1 OVRLD THRESHOLD 65
34. EXT L2 OVRLD THRESHOLD 85
35. HIGH DSCP               2E
36. LOW DSCP                2E
37. OAM DSCP                2E
    HIGH UDP                55000
    LOW UDP                 55001
    OAM UDP                 55002
    NETWORK TEST UDP        55003
42. HEART BEAT FREQ         1000
43. HEART BEAT LDI          3
```

```
phgrp                              5ESS Switch
SCREEN 4 OF 4              OFFICE DATA ADMINISTRATION
(5892)                  PROTOCOL HANDLER GROUP DEFINITION

        NPH PARAMETERS
45. UDP START PORT        _____
46. UDP BLOCK SIZE        ____
47. NPH QUALITY           ___
48. BNID                  ___
    NPH NETWORK TEST UDP  _____
    NPH OAM UDP           _____
51. HAIRPIN MONITORING    _
52. NPH HEART BEAT FREQ   ____
53. NPH HEART BEAT LDI    _
```

Figure 2 SAMPLE PHGRP FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AP: 6924 RECORD
PCF SELECTION GROUP PRIORITY ASSIGNMENT - PCFSG

1. GENERAL

Available for 5E19(1) and later, this form provides the ability to change the selection group order number.

1.1 Recent Change View

The corresponding Recent Change View for this view is 34.4.

2. FORM ENTRIES - 6924 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 SM

Description: This field is to identify the Switching Module being used.

Software Release: 5E19(1) and later
Required field.
Valid Entries: 1 - 192

Data Rules:

When SM, PSU, SHELF, CHANNEL GROUP, and SELECTION GROUP is entered, these fields must be defined on the PCFPDSN form (5996-2 Record).

2.3 PSU

Description: This field indicated the Packet Switching Unit number

Software Release: 5E19(1) and later
Required field.
Valid Entries: 0 or 1

2.4 SHELF

Description: This field specifies the Packet Switch Unit Shelf number.

Software Release: 5E19(1) and later
Required field.
Valid Entries: 0 - 4

2.5 CHANNEL GROUP

Description: This field specifies the Channel Group position.
Required field.

Software Release: 5E19(1) and later
Valid Entries: 0 - 15

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Selection Group List (SELGLIST)

These fields (Section 2.6 - Section 2.7) define the Selection Group list (up to 10 entries) consisting of the selection group name and order number.

2.6 SELECTION GROUP

Description: This field specifies the Selection Group number.
Required field.

Software Release: 5E19(1) and later
Valid Entries: Enter up to 8 alphanumeric characters

Data Rules:

Between all PCFSG forms, SELECTION GROUP must be unique.

2.7 ORDER NUM

Description: This field indicates whether a Selection group is active or inactive.

Software Release: 5E19(1) and later
Valid Entries:

Enter 0 for an inactive group
Enter 1-10 to set order number for active group

Data Rules:

When ORDER NUM is not 0, it must be unique.

```
pcfsg                              5ESS Switch                 _
                              OFFICE DATA ADMINISTRATION
(5996-4)                PCF SELECTION GROUP PRIORITY ASSIGNMENT

*1. SM                ___        5. SELECTION GROUP LIST (SELGLIST)
*2. PSU               _             SELECTION ORDER      SELECTION ORDER
*3. SHELF             _         ROW GROUP     NUM    ROW GROUP     NUM
*4. CHANNEL GROUP     __         1  _________   __      6 _________   __
                                 2  _________   __      7 _________   __
                                 3  _________   __      8 _________   __
                                 4  _________   __      9 _________   __
                                 5  _________   __     10 _________   __
```

Figure 1 SAMPLE PCFSG FORM 5E19(1) AND LATER SOFTWARE RELEASES

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SEC. 3AQ: 5893 RECORD
SIP PSTN INTERWORKING PARAMETERS SET- SIPPSTN

1. GENERAL

Available for 5E16(2) FR6 and later, this form is used to define rules for interworking signaling information from headers in the SIP (Session Initiation Protocol) message, to the appropriate field in PSTN (Public Switched Telephone Network) (ISUP (Integrated Services Digital Network User Part)) signaling and vice versa. It supports the SIP (Session Initiation Protocol) Enhancements to PSTN Gateway feature (99-5E-8658). For more information, see Division 2, Section 5R.

NOTE: Before this form can be inserted, the base feature must be purchased, which means that the ACT field on the SFSYS form (5713-1 Record) must be set to "Y".

1.1 Recent Change View

The corresponding Recent Change View for this view is 5.83.

2. FORM ENTRIES - 5893 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SET NAME

Description: This field specifies the SIP interworking set name.

Software Release: 5E16(2) FR6 and later
Required field.
Valid Entries: 16 alphanumeric characters

SIP TO PSTN MAPPING RULES

The following fields (Section 2.3 - Section 2.9) provides the rules for mapping from SIP to PSTN.

2.3 CALLING PARTY INFO

Description: This field indicates how the CPN (Calling Party Number) and Generic Name (if available) is mapped from the SIP.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: ISUPMIME or PIDENT

2.4 CALLED PARTY NUMBER

Description: This field indicates how the CPN (Calling Party Number), Ported Number GAP, and Forward Call Indicator information is mapped from the SIP message.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME

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Valid Entries: BASIC or ISUPMIME

2.5 TRANSMIT NETWORK SELECTION

Description: This field indicates how the TNS (Transmit Network Selection) is mapped from the SIP message.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: BASIC or ISUPMIME

Data Rules:

TRANSIT NETWORK SELECTION. must have' the same value as CALLED PARTY NUMBER.

2.6 REDIRECTING INFO

Description: This field indicates how the Redirecting Number, Redirection Information, Original Called TNS (Transmit Network Selection) is mapped from the SIP message.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: DIVERSION or ISUPMIME

2.7 ORIGINATING LINE INFO

Description: This field indicates how the OLI (Originating Line Information) parameter is populated.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: FROM or ISUPMIME

2.8 HOP COUNTER

Description: This field indicates how the HOP COUNTER is populated.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: MAXFORWARD or ISUPMIME

2.9 CARRIER SECTION

Description: This field indicates how the Carrier Selection Information is populated.

Software Release: 5E16(2) FR6 and later
Default: ISUPMIME
Valid Entries: BASIC or ISUPMIME

PSTN TO SIP MAPPING RULES

The following fields (Section 2.10 - Section 2.20) provides the rules for mapping from PSTN to SIP.

2.10 REQUEST URI ADDR

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Description: This field indicates how the SIP Request URI Address is populated.

Software Release: 5E16(2) FR6 and later
Default: BASIC
Valid Entries: BASIC

2.11 REQUEST URI CIC

Description: This field indicates how the CIC (Carrier Identification Code) in the TNS (Transit Network Selection) is populated in the SIP message.

Software Release: 5E16(2) FR6 and later
Default: BASIC
Valid Entries: BASIC

2.12 REQUEST URI CSEL

Description: This field indicates how the Carrier Selection Information is populated in the SIP message.

Software Release: 5E16(2) FR6 and later
Default: NOTMAPPED
Valid Entries: BASIC or NOTMAPPED

2.13 TO HEADER

Description: This field indicates how the "TO" header is populated in the SIP message.

Software Release: 5E16(2) FR6 and later
Default: BASIC
Valid Entries: BASIC

2.14 FROM ADDR

Description: This field indicates how the address field in the "FROM" header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: BASIC
Valid Entries: BASIC

2.15 FROM NAME

Description: This field indicates how the display name field in the "FROM" header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: CGPNNAME
Valid Entries: CGPNNAME or NOTMAPPED

2.16 FROM OLI

Description: This field indicates how the Originating Line Information field in the "FROM" header of the SIP signaling message is populated.

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Software Release: 5E16(2) FR6 and later
Default: NOTMAPPED
Valid Entries: BASIC or NOTMAPPED

2.17 P-ASSERTED ADDR

Description: This field indicates how the address in the P-Asserted-Identity header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: CGPN
Valid Entries: CGPN or NOTMAPPED

2.18 P-ASSERTED NAME

Description: This field indicates how the display name field in the P-Asserted-Identity header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: CGPNNAME
Valid Entries: CGPNNAME or NOTMAPPED

Data Rules:

When P-ASSERTED NAME is "CGPNNAME, P-ASSERTED ADDR must be "CGPN".

2.19 DIVERSION

Description: This field indicates how the Diversion header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: REDIRPARM
Valid Entries: REDIRPARM or BASIC

2.20 MAX FORWARDS

Description: This field indicates how the Max-Forwards header of the SIP signaling message is populated.

Software Release: 5E16(2) FR6 and later
Default: BASIC
Valid Entries: BASIC

```
sippstn                          5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5893)                SIP PSTN INTERWORKING PARAMETER SET

*1. SET NAME ________________

        SIP TO PSTN MAPPING RULES
 2. CALLING PARTY INFO        ISUPMIME
 3. CALLED PARTY NUMBER       ISUPMIME
```

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```
 4. TRANSIT NETWORK SELECTION ISUPMIME
 5. REDIRECTING INFO          ISUPMIME
 6. ORIGINATING LINE INFO     ISUPMIME
 7. HOP COUNTER               ISUPMIME
 8. CARRIER SELECTION         ISUPMIME
```

```
sippstn                              5ESS Switch              _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5893)                SIP PSTN INTERWORKING PARAMETER SET

   PSTN TO SIP MAPPING RULES
 9. REQUEST URI ADDR BASIC
10. REQUEST URI CIC  BASIC
11. REQUEST URI CSEL NOTMAPPED
12. TO HEADER        BASIC
13. FROM ADDR        BASIC
14. FROM NAME        CGPNNAME
15. FROM OLI         NOTMAPPED
16. P-ASSERTED ADDR  CGPN
17. P-ASSERTED NAME  CGPNNAME
18. DIVERSION        REDIRPARM
19. MAX FORWARDS     BASIC
```

Figure 1 SAMPLE SIPPTSN FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 3AR: 5894 RECORD
INTER-NODAL TRAFFIC GROUPS - INTGI

1. GENERAL

Available for 5E16(2) FR6 and later, this form is used to provide the service group information associated with the packet group and inter-nodal traffic group identifier. It supports the SIP (Session Initiation Protocol) Enhancements to PSTN (Public Switched Telephone Network) Gateway feature (99-5E-8658). For more information, see Division 2, Section 5R.

1.1 Recent Change View

The corresponding Recent Change View for this view is 5.84.

2. FORM ENTRIES - 5894 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * INTGI

Description: This field is used in conjuction with the Packet Group to identify the Trunk Group (Service Group) for the call.

Software Release: 5E16(2) FR6 and later
Required field.
Valid Entries: 0 - 3999

2.3 * PKT GRP

Description: This field is used in conjuction with the Inter-Nodal Traffic Group Identifier to identify the Trunk Group (ServiceGroup) for the call.

Software Release: 5E16(2) FR6 and later
Required field.
Valid Entries: 7000 - 7999

2.4 TGN

Description: This field indicates the Trunk Group (Service Group) to be used for the call. This is a no_change field.

Software Release: 5E16(2) FR6 and later
Valid Entries: 0 - 4000

```
intgi                              5ESS Switch              _
                             OFFICE DATA ADMINISTRATION
(5894)                        INTER-NODAL TRAFFIC GROUP

*1. INTGI    _____
```

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```
*2. PKT GRP _____
    TGN     _____
```

Figure 1 SAMPLE INTGI FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 3AS: 5895 RECORD
IP ADDRESS MANAGER - IPADRMG

1. GENERAL

Available for 5E20(1) and later Software Release, this form provides information about all PHs (Protocol Handlers) in an IP (Internet Protocol) network serving as an interface to the IP address manager. This form supports the IP Soft Handoff feature (99-5E-8688). For more information, see Division 2, Section 8AS.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.33.

2. FORM ENTRIES - 5895 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * CLUSTER NAME

Description: This field is used to indicate the name assigned to a network cluster.
Required field.

Software Release: 5E20(1) and later
Valid Entries: Up to 16 Alphanumeric characters

Data Rules:

CLUSTER NAME on this form must match CLUSTER NAME on the CLSIDX form (5899 Record).

2.3 * OFFICE NAME

Description: This field is used to identify the office for which this SUBNET ID and CA combination supports.

Software Release: 5E20(1) and later
Required field.
Valid Entries: Up to 8 Alphanumeric characters

Data Rules:

Every IPADRMG form where OFFICE NAME is entered, there must be a corresponding OFFICE NAME defined on the CA2IPMAP form (5897 Record).

When OFFICE NAME on the IPADRMG form does not match OFFICE in OFCOPT form (5509 Record), then every IP ADDRESS 1 defined on the IPADRMG form must not exist on the ETHIP form (5995 Record) as GATEWAY IP ADDRESS 2.

When OFFICE NAME on the IPADRMG form does not match OFFICE on the OFCOPT form, then every IP ADDRESS 2 defined on the IPADRMG form must not exist on the ETHIP form as GATEWAY IP ADDRESS 2.

2.4 # IP ADDRESS 1

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Description: This field is used to indicate the IP address of the first PH group pair acting as an interface to the IP Address Manager.

Software Release: 5E20(1) and later
Valid Entries: 0 - 255

Data Rules:

IP ADDRESS 1 must be unique.

2.5 IP ADDRESS 2

Description: The IP ADDRESS 2 is used to indicate the IP address of the second PH group pair acting as an interface to the IP Address Manager.

Software Release: 5E20(1) and later
Required field.
Valid Entries: 0 - 255

Data Rules:

IP ADDRESS 2 must be unique.

2.6 LOCAL DEFINE

Description: This field is used to identify whether the associated data was defined (provisioned) locally. This is a display only field.

Software Release: 5E20(1) and later
Default: Y
Valid Entries: Y, N

2.7 REMOTE UPDATE

Description: The Remotely Updated Data field is used to identifies whether or not the associated data was updated remotely (through learning mode functionality). This is a display only field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

```
ipadrmg                          5ESS Switch
                           OFFICE DATA ADMINISTRATION
(5895)                         IP ADDRESS MANAGER

*1. CLUSTER NAME  ____________________
*2. OFFICE NAME   _________
#3. IP ADDRESS 1  ___.___.___.___
 8. IP ADDRESS 2  ___.___.___.___
    LOCAL DEFINE  Y
    REMOTE UPDATE N
```

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Figure 1 SAMPLE IPADRMG FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AT: 5896 RECORD
IP/ATM COMMUNITY ADDRESS ROUTING - IPATMRTG

1. GENERAL

Available for 5E20(1) and later Software Release, this form allows a user to define either IP (Internet Protocol) or ATM (Asynchronous Transport Mode) routing for each possible CA (Community Address). This form supports the IP Soft Handoff feature (99-5E-8688). For more information, see Division 2, Section 8AS.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.34.

2. FORM ENTRIES - 5896 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SM

Description: This field indicates the Switching Module being used.

Required field.

Software Release: 5E20(1) and later
Valid Entries: 1 - 192

2.3 * PSU

Description: This field is used to identify the Packet Switching Unit number being used.

Required field.

Software Release: 5E20(1) and later
Valid Entries: 0 or 1

Data Rules:

The SM, PSU of IPATMRTG FORM must match with SWITCHING MODULE, PSU on EQPSU FORM.

When HIGH Priority Routing Type in IPATMRTG FORM is entered, SUBNET matches with SUBNET ID on CDMAOPT FORM and corresponding CA matches with COM ADDR of EQPSU FORM then LOW Priority Routing Type must be entered on IPATMRTG FORM.

2.4 * SUBNET

Description: This field identifies the Subnet ID number.

Software Release: 5E20(1) and later
Valid Entries: 0 - 3

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Data Rules:

When SUBNET matches SUBNET on the CDMAOPT form (5599 Record), then SM, PSU on this form must match the SWITCHING MODULE, PSU on the EQPSU form (5741 Record).

COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)

The List is used to define the Routing List for Community Addresses.

2.5 HIGH

Description: This field indicates the priority routing type for the high CA routing.

Required field.

Software Release: 5E20(1) and later
Valid Entries:

ENTRY	HIGH
00	NULL
01	ATM
10	IP

Data Rules:

For any CA of High or Low Priority Routing of "01" (ATM) on this form, the SM, PSU, and SUBNET must match the SM, PSU, and FAR SUBNET ID on the PSUNWK form (5992 Record).

When CA of HIGH or LOW Priority Routing Type is "01" (ATM) the SM, PSU, and SUBNET on this form must have at least one tuple in PSUNWK form with the same SM, PSU, and FAR SUBNET ID.

For any CA of HIGH or LOW Priority Routing Type "10" (IP) on this form, the SUBNET, and CA combination must match SUBNET ID and FAR CA on the CA2IPMAP form (5897 Record) where IP TRAFFIC STATE is equal to "O".

For any CA of HIGH or LOW Priority Routing Type "10" (IP) on this form, at least one tuple must exist on the CA2IPMAP form with the same SUBNET ID and FAR CA.

For any CA of HIGH or LOW Priority Routing Type "00" (NULL) on this form, the corresponding CA on the PSULNK form (5057 Record) must not be entered.

For any CA of HIGH or LOW Priority Routing Type "00" (NULL) on this form, the SM, PSU, and SUBNET combination should not match with SM, PSU, and FAR SUBNET ID on the PSUNWK form.

For any CA of HIGH or LOW Priority Routing Type "00" (NULL) on this form, the SUBNET, CA combination should not match FAR SUBNET ID and FAR CA on the CA2IPMAP form.

For any CA of HIGH and LOW Priority Routing Type that is unknown on the IPATMRTG form the SUBNET, CA combinations should not match with SUBNET ID and FAR CA on the CA2IPMAP form when IP TRAFFIC STATE is "O" (Operational).

For any CA of HIGH or LOW Priority Routing Type is "01" (ATM), when the SM, PSU, and SUBNET on this form does not match with SM, PSU, and SUBNET ID on the PSUNWK form (5992 Record), the CA numbers on this form, must match with NEAR COM ADDR and FAR COM ADDR on the PSULNK form (5057 Record).

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For any CA of HIGH or LOW Priority Routing Type "10" (IP) on this form, then the corresponding SUBNET ID on the CA2IPMAP form must math with SUBNET on the CDMAOPT form (5599 Record) and FAR CA on the CA2IPMAP form must match with COM ADDR on the EQPSU form (5741 Record).

When HIGH or LOW Priority Routing Type on this form is "10" (IP), and SUBNET and CA matches with SUBNET ID and FAR CA on the CA2IPMAP form, then IP TRAFFIC STATE on the CA2IPMAP form must be "O" (Operational).

When HIGH or LOW Priority Routing Type is "01" (ATM) or "10" (IP) on the IPATMRTG form, then the corresponding CA must be defined as COM ADDR on the EQPSU form.

SM, PSU on the IPATMRTG form must match with SWITCHING MODULE, PSU on the EQPSU form.

2.6 LOW

Description: This field indicates the priority routing type for CA routing.

Required field.

Software Release: 5E20(1) and later
Valid Entries:

ENTRY	LOW
00	NULL
01	ATM
10	IP

```
ipatmrtg                          5ESS Switch
SCREEN 1 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

*1. SM      ___     5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
*2. PSU     _       ROW CA  HIGH LOW
*3. SUBNET _         1   1  ___  ___
                     2   2  ___  ___
                     3   3  ___  ___
                     4   4  ___  ___
                     5   5  ___  ___
                     6   6  ___  ___
                     7   7  ___  ___
                     8   8  ___  ___
```

```
ipatmrtg                          5ESS Switch
SCREEN 2 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

          5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW
  9   9 ___  ___  19  19 ___  ___  29  29 ___  ___  39  39 ___  ___
```

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10	10	___	___	20	20	___	___	30	30	___	___	40	40	___	___
11	11	___	___	21	21	___	___	31	31	___	___	41	41	___	___
12	12	___	___	22	22	___	___	32	32	___	___	42	42	___	___
13	13	___	___	23	23	___	___	33	33	___	___	43	43	___	___
14	14	___	___	24	24	___	___	34	34	___	___	44	44	___	___
15	15	___	___	25	25	___	___	35	35	___	___	45	45	___	___
16	16	___	___	26	26	___	___	36	36	___	___	46	46	___	___
17	17	___	___	27	27	___	___	37	37	___	___	47	47	___	___
18	18	___	___	28	28	___	___	38	38	___	___	48	48	___	___

---

ipatmrtg 5ESS Switch
SCREEN 3 OF 8 OFFICE DATA ADMINISTRATION
(5896) IP/ATM COMMUNITY ADDRESS ROUTING

5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)

ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW
49	49	___	___	59	59	___	___	69	69	___	___	79	79	___	___
50	50	___	___	60	60	___	___	70	70	___	___	80	80	___	___
51	51	___	___	61	61	___	___	71	71	___	___	81	81	___	___
52	52	___	___	62	62	___	___	72	72	___	___	82	82	___	___
53	53	___	___	63	63	___	___	73	73	___	___	83	83	___	___
54	54	___	___	64	64	___	___	74	74	___	___	84	84	___	___
55	55	___	___	65	65	___	___	75	75	___	___	85	85	___	___
56	56	___	___	66	66	___	___	76	76	___	___	86	86	___	___
57	57	___	___	67	67	___	___	77	77	___	___	87	87	___	___
58	58	___	___	68	68	___	___	78	78	___	___	88	88	___	___

---

ipatmrtg 5ESS Switch
SCREEN 4 OF 8 OFFICE DATA ADMINISTRATION
(5896) IP/ATM COMMUNITY ADDRESS ROUTING

5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)

ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW	ROW	CA	HIGH	LOW
89	89	___	___	99	99	___	___	109	109	___	___	119	119	___	___
90	90	___	___	100	100	___	___	110	110	___	___	120	120	___	___
91	91	___	___	101	101	___	___	111	111	___	___	121	121	___	___
92	92	___	___	102	102	___	___	112	112	___	___	122	122	___	___
93	93	___	___	103	103	___	___	113	113	___	___	123	123	___	___
94	94	___	___	104	104	___	___	114	114	___	___	124	124	___	___
95	95	___	___	105	105	___	___	115	115	___	___	125	125	___	___
96	96	___	___	106	106	___	___	116	116	___	___	126	126	___	___
97	97	___	___	107	107	___	___	117	117	___	___	127	127	___	___
98	98	___	___	108	108	___	___	118	118	___	___	128	128	___	___

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```
ipatmrtg                          5ESS Switch
SCREEN 5 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

          5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW
129 129 ___  ___ 139 139 ___  ___ 149 149 ___  ___ 159 159 ___  ___
130 130 ___  ___ 140 140 ___  ___ 150 150 ___  ___ 160 160 ___  ___
131 131 ___  ___ 141 141 ___  ___ 151 151 ___  ___ 161 161 ___  ___
132 132 ___  ___ 142 142 ___  ___ 152 152 ___  ___ 162 162 ___  ___
133 133 ___  ___ 143 143 ___  ___ 153 153 ___  ___ 163 163 ___  ___
134 134 ___  ___ 144 144 ___  ___ 154 154 ___  ___ 164 164 ___  ___
135 135 ___  ___ 145 145 ___  ___ 155 155 ___  ___ 165 165 ___  ___
136 136 ___  ___ 146 146 ___  ___ 156 156 ___  ___ 166 166 ___  ___
137 137 ___  ___ 147 147 ___  ___ 157 157 ___  ___ 167 167 ___  ___
138 138 ___  ___ 148 148 ___  ___ 158 158 ___  ___ 168 168 ___  ___
```

```
ipatmrtg                          5ESS Switch
SCREEN 6 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

          5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW
169 169 ___  ___ 179 179 ___  ___ 189 189 ___  ___ 199 199 ___  ___
170 170 ___  ___ 180 180 ___  ___ 190 190 ___  ___ 200 200 ___  ___
171 171 ___  ___ 181 181 ___  ___ 191 191 ___  ___ 201 201 ___  ___
172 172 ___  ___ 182 182 ___  ___ 192 192 ___  ___ 202 202 ___  ___
173 173 ___  ___ 183 183 ___  ___ 193 193 ___  ___ 203 203 ___  ___
174 174 ___  ___ 184 184 ___  ___ 194 194 ___  ___ 204 204 ___  ___
175 175 ___  ___ 185 185 ___  ___ 195 195 ___  ___ 205 205 ___  ___
176 176 ___  ___ 186 186 ___  ___ 196 196 ___  ___ 206 206 ___  ___
177 177 ___  ___ 187 187 ___  ___ 197 197 ___  ___ 207 207 ___  ___
178 178 ___  ___ 188 188 ___  ___ 198 198 ___  ___ 208 208 ___  ___
```

```
ipatmrtg                          5ESS Switch
SCREEN 7 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

          5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW ROW CA  HIGH LOW
209 209 ___  ___ 219 219 ___  ___ 229 229 ___  ___ 239 239 ___  ___
210 210 ___  ___ 220 220 ___  ___ 230 230 ___  ___ 240 240 ___  ___
211 211 ___  ___ 221 221 ___  ___ 231 231 ___  ___ 241 241 ___  ___
212 212 ___  ___ 222 222 ___  ___ 232 232 ___  ___ 242 242 ___  ___
```

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```
213 213 ___  ___ 223 223 ___  ___ 233 233 ___  ___ 243 243 ___  ___
214 214 ___  ___ 224 224 ___  ___ 234 234 ___  ___ 244 244 ___  ___
215 215 ___  ___ 225 225 ___  ___ 235 235 ___  ___ 245 245 ___  ___
216 216 ___  ___ 226 226 ___  ___ 236 236 ___  ___ 246 246 ___  ___
217 217 ___  ___ 227 227 ___  ___ 237 237 ___  ___ 247 247 ___  ___
218 218 ___  ___ 228 228 ___  ___ 238 238 ___  ___ 248 248 ___  ___
```

```
ipatmrtg                          5ESS Switch
SCREEN 8 OF 8              OFFICE DATA ADMINISTRATION
(5896)                  IP/ATM COMMUNITY ADDRESS ROUTING

5. COMMUNITY ADDRESS ROUTING LIST (CAROUTINGLIST)
ROW CA  HIGH LOW
249 249 ___  ___
250 250 ___  ___
251 251 ___  ___
252 252 ___  ___
253 253 ___  ___
254 254 ___  ___
```

Figure 1 SAMPLE IPATMRTG FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AU: 5897 RECORD
COMMUNITY ADDRESS TO IP ADDRESS MAPPING - CA2IPMAP

1. GENERAL

Available for 5E20(1) and later Software Release, this form allows a user to define either IP (Internet Protocol) or ATM (Asynchronous Transport Mode) routing for each possible CA (Community Address). This form supports the IP Soft Handoff feature (99-5E-8688). For more information, see Division 2, Section 8AS.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.35.

2. FORM ENTRIES - 5897 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SUBNET ID

Description: The SUBNET ID field is used to specify which PSU to PSU connectivity subnet you wish to define CA (Ccommunity Address) to IP address mappings for.

Required field.

Software Release: 5E20(1) and later
Valid Entries: 0 - 3

2.3 * FAR CA

Description: The FAR CA field is used to specify which far community address is being mapped to the specified IP address in the IP ADDR field.

Required field.

Software Release: 5E20(1) and later
Valid Entries: 1 - 254

Data Rules:

The SM, PSU combination on which the FAR CA on the CA2IPMAP form is defined must be defined as SM, PSU on the PHGRP form (5892 Record) where APP TYPE is "IPSHO".

When the SM, PSU combination on which the FAR CA of the CA2IPMAP form matches with that of the corresponding SM, PSU combination on the PHGRP form where APP TYPE is "IPSHO", IP TRAFFIC STATE on the CA2IPMAP form, must match with IP TRAFFIC STATE on the PHGRP form.

When the SM, PSU combination on which the FAR CA of the CA2IPMAP form matches SM, PSU of PHGRP form where APP TYPE is "IPSHO", the corresponding SHELF, CHL GRP on the PHGRP form must be defined on the ETHIP form for the same combination of SM and PSU.

When the SM, PSU combination on which the FAR CA of the CA2IPMAP form matches SM, PSU on the

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PHGRP form where APP TYPE is "IPSHO", and when the corresponding SHELF, CHANNEL GROUP combination is defined on the ETHIP form (5995 Record) for the same combination of SM and PSU, the GATEWAY IP ADDRESS 2 defined on the ETHIP form must match the IP ADDRESS on the CA2IPMAP form.

When two FAR CAs are defined on the CA2IPMAP form with an IP TRAFFIC STATE of "O" and if at least one of the FAR CAs is assigned to an SM and PSU on the EQPSU form , a tuple must exist in the IPATMRTG form (5896 Record).

2.4 # CLUSTER NAME

Description: The CLUSTER NAME field is used to indicate the name assigned to a network cluster.

Software Release: 5E20(1) and later
Required field.
Valid Entries: Up to 16 Alphanumeric characters

Data Rules:

CLUSTER NAME on this form must match CLUSTER NAME on the CLSIDX form (5899 Record).

2.5 # OFFICE NAME

Description: This field is used to identify the office for which this SUBNET ID and CA combination supports.

Software Release: 5E20(1) and later
Required field.
Valid Entries: Up to 8 Alphanumeric characters

Data Rules:

When OFFICE NAME matches OFFICE on the OFCOPT form (5509 Record), then every IP ADDRESS 1 and IP ADDRESS 2 defined on the IPADRMG form (5895 Record) must be defined on the IPPROC form (5987 Record).

When OFFICE NAME defined on the CA2IPMAP form matches with OFFICE defined on OFCOPT form (5509 Record), the FAR CA of the corresponding CA2IPMAP form must first be defined as COM ADDR on EQPSU form.

There must be at least one CA2IPMAP form such that OFFICE NAME matches the OFFICE defined on the OFCOPT form (5509 Record).

The count of unique OFFICE NAMEs must not exceed 128.

2.6 # IP ADDRESS

Description: The IP ADDR field is used to specify the IP address that will be mapped to the SUBNET ID and CA combination.

Software Release: 5E20(1) and later
Valid Entries: 0 - 255

2.7 IP TRAFFIC STATE

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Description: This attribute identifies the IP traffic state (growth , maintenance, or operational) of the associated PSU subnet and Community Address.

Software Release: 5E20(1) and later
Required field.
Default: G
Valid Entries:

IP TRAFFIC STATE Entries	
Entry	**Definition**
G	Growth
M	Maintenance
O	Operational

2.8 LOCAL DEFINE

Description: This field is used to identify whether the associated data was defined (provisioned) locally. This is a display only field.

Software Release: 5E20(1) and later
Default: Y
Valid Entries: Y, N

2.9 REMOTE UPDATE

Description: The Remotely Updated Data field is used to identifies whether the associated data was updated remotely (through learning mode functionality). This is a display only field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

```
ca2ipmap                          5ESS Switch
                             OFFICE DATA ADMINISTRATION
(5897)                  COMMUNITY ADDRESS TO IP ADDRESS MAPPING

*1. SUBNET ID          _
*2. FAR CA             ___
#3. CLUSTER NAME       ________________
#4. OFFICE NAME        _________
#5. IP ADDRESS         ___.___.___.___
10. IP TRAFFIC STATE G
    LOCAL DEFINE       Y
    REMOTE UPDATE      N
```

Figure 1 SAMPLE CA2IPMAP FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AV: 5898 RECORD
IP SOFT HANDOFF OFFICE PARAMETERS - IPSHOPT

1. GENERAL

Available for 5E20(1) and later Software Release, this form defines IP (Internet Protocol) Soft Handoff parameters that are defined on an office wide basis. This form supports the IP Soft Handoff feature (99-5E-8688). For more information, see Division 2, Section 8AS.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.36.

2. FORM ENTRIES - 5898 RECORD

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 represents the key used to access this form.

Required field.

Software Release: 5E20(1) and later
Default: 0
Valid Entries: 0

2.3 ENABLE LEARN MODE

Description: This field is used to specify whether or not the learning mode is enabled for the population of office and PH (Protocol Handler) IP (Internet Protocol) address information in the IP address manager and CA (Community Address) to IP mapping tables.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.4 CLUSTER NAME

Description: The CLUSTER NAME field is used to identify the name of the cluster to which this office belongs.

Software Release: 5E20(1) and later
Default: CLUSTER0
Valid Entries: Up to 16 Alphanumeric characters

Data Rules:

CLUSTER NAME on this form must match CLUSTER NAME on the CLSIDX form (5899 Record).

2.5 INTRA DCS TRAFFIC

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Description: This field is used to specify whether or not automatic activation of intra-DCS traffic is enabled.

Required field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.6 INTER DCS TRAFFIC

Description: This field is used to specify whether or not automatic activation of inter-DCS traffic is enabled.

Required field.

Software Release: 5E20(1) and later
Default: N
Valid Entries: Y, N

2.7 AUDIT FREQ

Description: This field is used to specify the frequency of which the IP Address Manager and CA to IP Mapping tables will be audited, expressed in hours.

Software Release: 5E20(1) and later
Default: 24
Valid Entries: 1 - 120

```
ipshopt                          5ESS Switch
                           OFFICE DATA ADMINISTRATION
(5898)                   IP SOFT HANDOFF OFFICE PARAMETERS

*1. KEY                0
 2. ENABLE LEARN MODE  N
 3. CLUSTER NAME       CLUSTER0
 4. INTRA DCS TRAFFIC  N
 5. INTER DCS TRAFFIC  N
 6. AUDIT FREQ         24
```

Figure 1 SAMPLE IPSHOPT FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3AW: 5899 RECORD
NETWORK CLUSTER DEFINITION - CLSIDX

1. GENERAL

Available for 5E20(1) and later Software Release, this form is used to define a network cluster. This form supports the IP Soft Handoff feature (99-5E-8688). For more information, see Division 2, Section 8AS.

1.1 Recent Change View

The corresponding Recent Change View for this view is 22.37.

2. FORM ENTRIES - 5899 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * CLUSTER NAME

Description: This field is used to specify the cluster name assigned to a network cluster.

Software Release: 5E20(1) and later.
Valid Entries: Up to 16 Alphanumeric characters

Data Rules:

No two CLSIDX forms can have the same CLUSTER NAME.

The maximum number of tuples in CLSIDX form must not exceed 1128

```
clsidx                              5ESS Switch
                           OFFICE DATA ADMINISTRATION
(5899)                     NETWORK CLUSTER DEFINITION

*1. CLUSTER NAME _________________
```

Figure 1 SAMPLE CLSIDX FORM 5E20(1) AND LATER SOFTWARE RELEASES

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SEC. 3BA: 5879 RECORD
UDP PATH SET- UDPPTSET

1. GENERAL

Available for 5E21(1) and later Software Release, this form is used to UDP (User Datagram Protocol) Path Sets that can associate at most 64 UDP paths. This form supports the UDP PATH SET feature (99-5E-8830). For more information, see Division 2, Section 8AY.

1.1 Recent Change View

The corresponding Recent Change View for this view is 33.25.

2. FORM ENTRIES - 5879 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * UDP PATH SET NAME

Description: This field is used to specify the UDP Path Set name.

Software Release: 5E21(1) and later.
Valid Entries: Up to 16 Alphanumeric characters

Data Rules:

When UDP PATH SET NAME is entered on this form, then it must be defined on the corresponding UDPPATH form (5891 Record) and the GSM on the UDPPATH form must match the SIP-T GSM on the PKTGRP form (5219 Record).

UDP PATH SET NAME must be unique between all SIP-T Packet Groups defined on the PKTGRP form.

UDP PATH SET MEMBERS

2.3 UDP PATH

Description: This field is used to indicate the number of UDP Paths.

Software Release: 5E21(1) and later.
Valid Entries: 1 - 1023

2.4 RTE ALLOW

Description: This field is used to indicate whether or not a route is allowed on a given UDP Path.

Software Release: 5E21(1) and later.
Valid Entries: Y, N

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```
SCREEN 1 OF 3              OFFICE DATA ADMINISTRATION
(5879)                            UDP PATH SET

*1. UDP PATH SET NAME _________________
```

```
udpptset                             5ESS Switch
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5879)                            UDP PATH SET

                          2. UDP PATH SET MEMBERS
    UDP  RTE        UDP  RTE        UDP  RTE        UDP  RTE        UDP  RTE
ROW PATH ALLOW  ROW PATH ALLOW  ROW PATH ALLOW  ROW PATH ALLOW  ROW PATH ALLOW
 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 _____   _
```

```
udpptset                             5ESS Switch
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5879)                            UDP PATH SET

          2. UDP PATH SET MEMBERS
    UDP  RTE        UDP  RTE        UDP  RTE
ROW PATH ALLOW  ROW PATH ALLOW  ROW PATH ALLOW
 41 _____   _     49 _____   _    57 _____   _
 42 _____   _     50 _____   _    58 _____   _
 43 _____   _     51 _____   _    59 _____   _
 44 _____   _     52 _____   _    60 _____   _
 45 _____   _     53 _____   _    61 _____   _
 46 _____   _     54 _____   _    62 _____   _
 47 _____   _     55 _____   _    63 _____   _
 48 _____   _     56 _____   _    64 _____   _
```

Figure 1 SAMPLE UDPPTSET FORM 5E21(1) AND LATER SOFTWARE RELEASES

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SEC. 4: MEDIA GATEWAY PROXY FORMS

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SEC. 4A: 6920 RECORD
MGP GROWTH - MGPGROWTH

1. GENERAL

The 6920 Record is available with the 5E16 and later Software Releases. It is used to define a MGP (Media Gateway Proxy). The MGP is associated with an SM2000 to create a packet SM (Switching Module).

1.1 Recent Change View

The corresponding Recent Change View for this form is 50.1.

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 * MGP NAME

Description: This field is used to specify the MGP (Media Gateway Proxy) name.

Required Field.

Software Release: 5E16 and later
Valid Entries: 1 - 16 alphanumeric characters

2.3 * SM NUMBER

Description: This field is used to indicate the SM (Switching Module) number associated with the MGP.

Required Field.

Software Release: 5E16 and later
Valid Entries: 1 - 192

Data Rules:

SM NUMBER must be defined on the EQIM form (5700 Record).

Only one MGPGROWTH form can exist per SM NUMBER.

2.4 WELL KNOWN IP ADDR

Description: This field is used to specify the well known IP (Internal Protocol) address of the MGP. This is a Display Only field.

Software Release: 5E16 and later
Valid Entries: 0 - 255

2.5 PRIMARY IP ADDR

Description: This field is used to specify the primary IP address of the MGP. This is a Display Only field.

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Software Release: 5E16 and later
Valid Entries: 0 - 255

2.6 SECONDARY IP ADDR

Description: This field is used to specify the secondary IP address of the IWU (Inter-Working Unit). This is a Display Only field.

Software Release: 5E16 and later
Valid Entries: 0 - 255

```
mgpgrowth                          5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(6920)                              MGP GROWTH

*1. MGP NAME              __________________
*2. SM NUMBER             ___
    WELL KNOWN IP ADDR    ___.___.___.___
    PRIMARY IP ADDR       ___.___.___.___
    SECONDARY IP ADDR     ___.___.___.___
```

Figure 1 SAMPLE MGPGROWTH FORM 5E16 AND LATER SOFTWARE RELEASES

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SEC. 4B: 6921 RECORD
MGP COMPONENT ASSOCIATION - MGPCOMP

1. GENERAL

The 6921 Record is available with the 5E16 and later Software Releases. It is used to define a MGP (Media Gateway Proxy) component association.

1.1 Recent Change View

The corresponding Recent Change View for this form is 50.2.

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 * COMPONENT IP ADDR

Description: This field is used to specify the component IP (Internal Protocol) address of the end unit component.

Required Field.

Software Release: 5E16 and later
Valid Entries: 0 - 255

Data Rules:

COMPONENT IP ADDR must be unique.

2.3 * SM NUMBER

Description: This field is used to indicate the SM (Switching Module) number associated with the MGP.

Required Field.

Software Release: 5E16 and later
Valid Entries: 1 - 192

2.4 # MGP NAME

Description: This field is used to specify the MGP name.

Required Field.

Software Release: 5E16 and later
Valid Entries: 1 - 16 alphanumeric characters

Data Rules:

The combination of MGP NAME and SM NUMBER must be defined on the MGPGROWTH form (6920

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Record).

2.5 # COMPONENT TYPE

Description: This field is used to specify the type of component.

Required Field.

Software Release: 5E16 and later
Valid Entries:

Valid COMPONENT TYPE Entries

Entry	Description
IWU	Interworking Unit
LAG	Line Access Gateway
PAG	Packet Access Gateway
TAG	Trunk Access Gateway

Data Rules:

When COMPONENT TYPE is "IWU", COMPONENT ID must be 1 - 5.

When COMPONENT TYPE is "LAG":

COMPONENT ID must be 1 - 105.

AESA row 2 must not be entered.

When COMPONENT TYPE is "PAG":

COMPONENT ID must be 1 - 2.

EQSTAT must be "O".

AESA row 1 and 2 must be entered as pairs.

AESA row 3 and 4 must be entered as pairs.

AESA row 5 and 6 must be entered as pairs.

AESA row 7 and row 8 must not be entered.

AESA row 3 and 4 must be entered before AESA rows 5 and 6.

When COMPONENT TYPE is "TAG", COMPONENT ID must be 1 - 9.

AESA row 1 must be entered for all COMPONENT TYPEs.

When COMPONENT TYPE is "IWU", "LAG", or "TAG":

AESA row 3 through row 8 must not be entered.

COMPONENT TYPE and COMPONENT ID must be unique per MGP NAME.

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NOTE: Although checks have been added there that supports LAG, it is for future development. LAG is not support in PS4.0.

2.6 # COMPONENT ID

Description: This field identifies the number of the MGP.

Required.

Software Release: 5E16 and later
Valid Entries:

Valid COMPONENT ID Entries

COMPONENT TYPE	Value
IWU	1 - 5
LAG	1 - 105
PAG	1 - 2
TAG	1 - 9

2.7 # NETWORK PROTOCOL

Description: This field is used to specify the type of network protocol used by the end unit component.

Required.

Software Release: 5E16 and later
Valid Entries:

Valid NETWORK PROTOCOL

Entry	Description
IPDC	Internet Protocol Device Control
SAPP	Sapphire messaging

Data Rules:

When NETWORK PROTOCOL is "SAPP", COMPONENT TYPE must be "IWU", "PAG", or "TAG".

When NETWORK PROTOCOL is "IPDC", COMPONENT TYPE must be "LAG".

2.8 # EQSTAT

Description: This field is used to specify the equipment status of the end unit component.

Required Field.

Software Release: 5E16 and later
Valid Entries:

Valid NETWORK PROTOCOL

Entry	Definition
G	Growth
O	Operational

END SYSTEM ADDRESS

2.9 AESA

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Description: The ATM (Asynchronous Transfer Mode) End System Address field is an ATM and system address. For PAG, TAG, and IWU the address is defined per OC3 1+1 pair on the component. For TAG and IWU, the address only applies to the network side, while PAG also deals with the fabric side.

Software Release: 5E16 and later
Valid Entries: blank, or 00 - ff (hexadecimal)

```
mgpcomp                          5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(6921)                     MGP COMPONENT ASSOCIATION

 *1. COMPONENT IP ADDR ___.___.___.___
 *6. SM NUMBER         ___
 #7. MGP NAME          ________________
 #8. COMPONENT TYPE    ___
 #9. COMPONENT ID      ___
#10. NETWORK PROTOCOL  _____
#11. EQSTAT            _
```

```
mgpcomp                          5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(6921)                     MGP COMPONENT ASSOCIATION

                    12. END SYSTEM ADDRESS
ROW AESA
 1  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 2  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 3  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 4  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 5  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 6  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 7  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
 8  __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __ __
```

Figure 1 SAMPLE MGPCOMP FORM 5E16 AND LATER SOFTWARE RELEASES

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SEC. 4C: 6922 RECORD
MGP PACKET LINE - MGPLINE

1. GENERAL

The 6922 Record is available with the 5E16 and later Software Releases. It is used to add the MGP (Media Gateway Proxy) routing data for packet lines. These packet lines exist on a LAG (Line Access Gateway).

1.1 Recent Change View

The corresponding Recent Change View for this form is 50.3.

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 * OE

Description: This field identifies the equipment number type.

Software Release: 5E16 and later
Required Field.
Valid Entries:

Valid OE Entries

Entry	Description	Value
X	ISDN (Intergrated Services Digital Network) virtual equipment number type.	(1 - 192) (00001 - 03840) where: (1 -192) = SM (00001 - 03840) = LINE (line)
Y	Analog line virtual equipment number type.	(1 - 192) (00001 - 28800) where: (1 -192) = SM (00001 - 28800) = LINE (line)

- **WARNING:** When the SM portion of the OE is less than 3 digits and the overall length of the OE is less than 8 digits, leading zeros will be added to the left side of the OE to create an OE that is 8 digits in length.

Data Rules:

OE must be defined on the LINE form (5109 Record), MLHLN (5111 Record), DSL (5907 Record), or DSLUSR (5908 Record). When the OE type is "Y", this OE must be defined on either the LINE or MLHLN form. When the OE type is "X", this OE must be defined on either the DSL or DSLUSR form.

2.3 # COMPONENT ID

Description: This field identifies the number of MGPs.

Software Release: 5E16 and later
Required Field.
Valid Entries: 1 - 105

Data Rules:

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COMPONENT ID must be defined on the MGPCOMP form with COMPONENT ID set to "LAG".

2.4 ESP

Description: This field identifies whether the packet line has ESP (Essential Service Protection) enabled.

Software Release: 5E16 and later
Required Field.
Default: N
Valid Entries: Y, N

PHYSICAL PORT

2.5 MODULE

Description: This field identifies the physical slot of the packet line.

Software Release: 5E16 and later
Valid Entries: 1 - 16

Data Rules:

MODULE and LINE must both be entered when either one is entered.

2.6 LINE

Description: This field identifies the physical port number of the packet line.

Software Release: 5E16 and later
Valid Entries: 1 - 16

```
mgpline                          5ESS Switch           _
                           OFFICE DATA ADMINISTRATION
(6922)                           MGP PACKET LINE

*1. OE           X 192000001
#4. COMPONENT ID 1
 5. ESP          N

PHYSICAL PORT
 6. MODULE __
 7. LINE   __
```

Figure 1 SAMPLE MGPLINE FORM 5E16 AND LATER SOFTWARE RELEASES

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SEC. 4D: 6923 RECORD
MGP PACKET TRUNK - MGPTRUNK

1. GENERAL

The 6923 Record is available with the 5E16 and later Software Releases. It is used to add the MGP (Media Gateway Proxy) routing data for packet trunks. These packet trunks exist on a TAG (Trunk Access Gateway).

1.1 Recent Change View

The corresponding Recent Change View for this form is 50.4.

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 * OE

Description: This field identifies the equipment number type.

Required Field.

Software Release: 5E16 and later
Valid Entries:

Valid OE Entries

Entry	Description	Definition
V	Trunk virtual equipment number type	(1 - 192) (0001 - 1008) (01 - 24) where: (1 -192) = SM (0001 - 1008) = FAC (Virtual Facility) (01 - 24) = CHAN (channel)

WARNING: When the SM portion of the OE is less than 3 digits and the overall length of the OE is less than 8 digits, leading zeros are added to the left side of the OE to create an OE that is 8 digits in length.

2.3 * COMPONENT ID

Description: This field identifies the component ID assigned to the packet trunk. These packet trunks exist on a TAG (Trunk Access Gateway).

Required.

Software Release: 5E16 and later
Valid Entries: 1 - 9

Data Rules:

COMPONENT ID must be defined on the MGPCOMP form (6921 Record) with a COMPONENT TYPE of "TAG".

2.4 * TRUNK TYPE

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Description: This field identifies the trunk type assigned to the packet trunk.

Required Field.

Software Release: 5E16 and later
Valid Entries:

Valid TRUNK TYPE Entries

Entry	Description
ISUP	ISDN (Intergrated Services Digital Network) User Part
PRIB	Primary Rate Interface B Channel
PRID	Primary Rate Interface D Channel

Data Rules:

When TRUNK TYPE is "PRIB" or "PRID", INTERNAL PROTOCOL must be "PRI".

When TRUNK TYPE is "ISUP", INTERNAL PROTOCOL must be "ISUP".

When TRUNK TYPE is "ISUP", the OE must be defined on a TRUNK from (5204 Record), where the TKGRP form (5202 Record) has INPULSING or OUTPULSING equal to "ISUP7".

When TRUNK TYPE is "PRID", the OE must be defined on the TRUNK form (5204 Record) with DCHN DESG equal to an unknown value, and the TKGRP form (5202 Record) must have a TRKCLS equal to "EDSL".

When TRUNK TYPE is "PRIB", the OE must be defined on the TRUNK form (5204 Record). The TKGRP form (5202 Record) must have a TRKCLS equal to "EDSL" or "EDSLHM". If the TRKCLS is "EDSL", the DCHN DESG on the TRUNK form must be blank.

2.5 # INTERNAL PROTOCOL

Description: This field identifies the internal protocol assigned to the packet line.

Required Field.

Software Release: 5E16 and later
Valid Entries: ISUP or PRI

PHYSICAL PORT

2.6 # MODULE

Description: This field identifies the physical port module (or slot) number of the packet trunk.

Software Release: 5E16 and later
Valid Entries: 1 - 17

2.7 # LINE

Description: This field identifies the physical port line (or span) number of the packet trunk.

Software Release: 5E16 and later
Valid Entries: 1 - 28

2.8 # CHANNEL

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Description: This field identifies the physical port channel number of the packet trunk.

Software Release: 5E16 and later
Valid Entries: 1 - 24

```
mgptrunk                          5ESS Switch            _
                             OFFICE DATA ADMINISTRATION
(6923)                            MGP PACKET TRUNK

*1. OE                  _ __________
*4. COMPONENT ID        ___
*5. TRUNK TYPE          _____
#6. INTERNAL PROTOCOL   _____

 PHYSICAL PORT
#7. MODULE   __
#8. LINE     __
#9. CHANNEL  __
```

Figure 1 SAMPLE MGPTRUNK FORM 5E16 AND LATER SOFTWARE RELEASES

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SEC. 5: ISDN MISCELLANEOUS FORMS

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SEC. 5A: 5940 RECORD
REMOTE PERIPHERAL ALARMS
- RISITE

1. GENERAL

The 5940 Record is available with 5E5 and later Software Releases. It is used to define remote line units. Prior to 5E12, this form was used to define RISLUs (Remote Integrated Services Line Units). Effective with the 5E12 Software Release, this form is also used to remote AIUs (Access Interface Units). For 5E12 and later, the name of this form was changed from Remote Integrated Services Line Unit Site to Remote Peripheral Alarms. Also, a RP NO (Remote Peripheral Number) field was added to distinguish the two units, the ALARM SM field was changed to SM, and the ALARM RISLU field was removed.

A remote unit defined on a RISITE form where RAS EQUIPPED? is "Y" and RAS DUPLEX ACC? is "N" requires that one OSPSDSL form (5411 Record) be submitted where the DSL NAME ID on the OSPSDSL form matches the SITE ID on the RISITE form and the SM portion (first three digits) of the LCEN on the OSPSDSL form matches the SM on the RISITE form.

An RISITE form where RAS EQUIPPED? is "Y" and RAS DUPLEX ACC? is "Y" requires that two OSPSDSL forms be submitted where the DSL NAME ID on the OSPSDSL form matches the SITE ID on the RISITE form and the SM portion (first three digits) of the LCEN on the OSPSDSL form matches the SM on the RISITE form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 22.11.

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 * SITE ID

Description: Enter the remote peripheral unit Site ID. (This range of Site ID values was chosen to avoid confusion with the RSM Site ID range.)

Required Field.
Valid Entries: 500 - 999

Data Rules:

No more than 8 remote peripherals can be assigned from the EQAIU form (with an AIU TYPE of "EAIU" for remote AIU) or the EQRISLU form.

SITE IDs defined on this form for an AIU remote peripheral unit must also have the same SITE ID defined on the EQAIU form.

2.3 SITE TITLE

Description: Enter the remote peripheral unit Site Title (e.g., name of town).

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Valid Entries: 1 - 15 alphanumeric characters

BUILDING/POWER ALARMS

The following fields (Section 2.5 - Section 2.9) define the building and power alarms. Every Remote Integrated Services Line Unit scans its own fan and fuse alarms, but one RISLU per site must be selected to scan power and battery alarms for the RISLU site. The same RISLU will also scan building and miscellaneous (office defined) alarms if the RISLU site is equipped with the optional LAU (Link Adapter Unit) RAS (Remote Alarm Section).

2.4 ALARM SM

Description: The name of this field was changed to SM in 5E12. This field name applies to 5E11 and earlier. See SM for usage information.

2.5 SM

Description: Enter the number of the SM that hosts the RISLU responsible for the building and power alarms at the RISLU site. This field was changed from ALARM SM to SM in 5E12.
Valid Entries: 1 - 192

Data Rules:

The SM entered in this field must be defined on an EQRISLU form (5732 Record).

2.6 ALARM RISLU

Description: Enter the number of the RISLU responsible for building and power alarms at the RISLU site. For 5E12 and later, this field was removed.

Software Release: 5E9(2) - 5E11
Valid Entries: 0 - 7

Data Rules:

The RISLU entered in this field must be defined on an EQRISLU form.

2.7 RP NO

Description: Enter the unit number of the RP (Remote Peripheral) which provides the alarms.

Software Release: 5E12 and later
Valid Entries:

Blank or enter 0 - 7 for RISLU.

Data Rules:

The RP NO must be unique for each SM.

2.8 RAS EQUIPPED?

Description: Is this RISLU site equipped with Remote Alarm Section?

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Default: N
Valid Entries: Y, N

2.9 RAS DUPLEX ACC?

Description: Is this RISLU site equipped with RAS (Remote Alarm Section) containing duplex ACC (Alarm Conversion Circuits)?
Default: N
Valid Entries: Y, N

Data Rules:

Enter "N" if the RISLU site is not equipped with RAS or if the site has simplex ACC.

ON-SITE PERIPHERALS

The following fields (Section 2.10 - Section 2.12) are Recent Change only fields added with the Remote AIU feature.

2.10 SM

Description: This field provides the SM number.

2.11 RP NO

Description: This field provides the remote peripheral number.

2.12 RP TYPE

Description: It provides the type of remote peripheral ("ISLU" or "AIU") responsible for building and power alarms at the remote site.

```
risite                          5ESS Switch              _
(5940)                    OFFICE DATA ADMINISTRATION
                  REMOTE INTEGRATED SERVICES LINE UNIT SITE

* 1. SITE ID      501
  2. SITE TITLE   ANY TOWN


     BUILDING AND POWER ALARMS

  3. ALARM SM  003
  4. ALARM RISLU  4
  5. RAS EQUIPPED?   Y
  6. RAS DUPLEX ACC? Y
```

Figure 1 SAMPLE RISITE FORM 5E11 AND EARLIER SOFTWARE RELEASES

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```
risite                              5ESS Switch              _
                              OFFICE DATA ADMINISTRATION
(5940)                         REMOTE PERIPHERAL ALARMS

*1. SITE ID     ___                  ON-SITE PERIPHERALS
 2. SITE TITLE _________________         RP RP
                                      SM  NO TYPE
BUILDING/POWER ALARM HOST             ___ _  ________
 3. SM               ___              ___ _  ________
 4. RP NO            _                ___ _  ________
 5. RAS EQUIPPED?    N                ___ _  ________
 6. RAS DUPLEX ACC?  N                ___ _  ________
                                      ___ _  ________
                                      ___ _  ________
                                      ___ _  ________
```

Figure 2 SAMPLE RISITE FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 5B: 5941 RECORD
ISDN OFFICE OPTIONS FORM - ISDNOPT

1. GENERAL

For 5E3 and later, the 5941 Record defines a set of office parameters that must be entered when the office is an ISDN (Integrated Services Digital Network) switch. The office can provide ISDN service if:

- an EQPSU form (5741 Record) is entered, with an EQISLU form (5731 Record) and/or EQRISLU form (5732 Record), and/or an EQIDCU form (5846 Record).
- the office contains an ISDN Switching Module, an SM defined on the EQIM form with the CONFIGURATION field set to "LOADED".

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.1.

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 * KEY

Description: This field is required by the software; its value should always be 0.
Default: 0

DSL DFLT SRV

The following field defines the DSL default service group. Available for 5E10 and later, this field supports the Default Service feature. For more information on this feature and other NI-3 features, see the National ISDN section Division 2, Section 1AM.

2.3 DFLT SRV

Description: Enter the name of the default service group that will be assigned to a custom or standard DSL if the DFLT SRV field on the DSL form (5907 Record) is not entered.

The DFLT SRV field supports the Default Service feature, which is a secured feature (SFID 225). For more information on this feature, see Division 2, Section 1AM on National ISDN features. Also see the secured feature Automatic Association of Default Services, Division 2, Section 4A238.

Software Release: 5E10 and later.
Valid Entries: 1 - 7 characters

Data Rules:

DFLT SRV cannot have "/" as the first character.

DFLT SRV must not be one of the following:

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"ABORT"
"ACTBFG"
"CLEANUP"
"NONE"
"NONTGID"
"SETUP"
"TEMP"

If the DFLT SRV field is entered on the ISDNOPT form, it must be defined on a DFLTSRV form.

PACKET SWITCHING

The following fields (Section 2.4 - Section 2.11) define a set of parameters for packet switching.

2.4 PSN

Description: This field specifies the packet switch number of this 5ESS Switch in a Packet Switching network. A packet switching network consists of 5ESS Switches connected via IP (Internal Protocol) trunks. This is called the IP subnetwork. In order for calls to be routed across the network, each switch connected in the subnetwork must have a unique PSN.
Valid Entries: 1 - 255

Data Rules:

If PSN is entered, it supports packet switched trunks, therefore, PSN trunks must have a TRKCLASS of "X75", "X75P"or "PACKET" on the TKGRP form, and the CONFIGURATION on the EQIM form must support packet switching. For the CONFIGURATION that supports the packet switching trunk TRKCLS values,see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

For 5E9(1) and later, if a trunk group is defined with TRKCLS "PACKET" on the TKGRP form, and a trunk in the group is assigned to a loaded SM (SM in the equipment number on the TRUNK form is defined on an EQIM form where CONFIG is "LOADED"), then a value must be entered in this PSN field; the PSN may not be the same as the NEXT PSN on the TKGRP form.

2.5 IMPLIED NPA

Description: This field specifies the Implied NPA (Numbering Plan Area) of the office for ISDN packet switching. This NPA allows a switch owner to assign an implied NPA for packet switching which may be different from that for circuit switching (e.g., voice call). The area code chosen should be the NPA most often implied by 7-digit packet switching calls originating from or incoming to this office.
Valid Entries: 200 - 999

2.6 FRAMES RETRANSMITTED

Description: This field specifies the percentage of the threshold value for the ratio of information frames retransmitted to total information frames transmitted.
Valid Entries: 0 - 5

2.7 SEGMENT SIZE

Description: This field specifies the office packet segment size for Intranetwork ISDN Packet Switching.

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NOTE: The SEGMENT SIZE field on the TKGRP form (5202 Record) that is applicable for X.75 trunk groups only, will be used for Internetwork ISDN Packet Switching. (See Division 2, Section 5C for more information on Packet Trunk Interface Standardization.)

Required Field.
Default: 16
Valid Entries: 16, 64, 128, or 256 (bytes)

2.8 ILC

Description: Is intraLATA call screening permitted on ISDN SMs (CONFIGURATION set to "LOADED" on associated EQIM form)?

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

2.9 PP IDLE

Description: Enter the Packet Pipe IDLE timer, which is the time (in seconds) without flags before Packet Pipe trunk members go to the idle-channel state. 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 supports the CDMA (Code Division Multiple Access) feature. For more information on this feature see Division 2, Section 8B.

Software Release: 5E10 and 5E11.
Required Field.
Default: 4
Valid Entries: 1 - 30 (seconds)

2.10 PER RATE

Description: Enter the PER (Protocol Error Record) leak rate for the speech handler channel trunks. The field 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 supports the CDMA (Code Division Multiple Access) feature. For more information on this feature see Division 2, Section 8B.

Software Release: 5E10 and 5E11.
Required Field.
Default: 5
Valid Entries: 0 - 255

2.11 PER THRESH

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Description: Enter the PER (Protocol Error Record) 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, a report is generated when the PER count for a trunk reaches 15. An internal counter is reset so that the next report is only generated when a new PER count of 15 is reached.

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 5E11.
Required Field.
Default: 15
Valid Entries: 0 - 255

X75P ONLY

The following fields (Section 2.12 - Section 2.13) define Subnetwork Parameters used for Internetwork ISDN Packet Switching. (For more information see Division 2, Section 5C, Packet Trunk Interface Standardization.)

2.12 SUBNET ID

Description: Enter the clearing Subnetwork Identifier (PVC ID (Permanent Virtual Circuit ID)). When a subnetwork clears a virtual call that is active or in progress, this value is inserted in the Clearing Subnetwork Identification Utility to identify the subnetwork. This ID helps in localizing and detecting problems at the subnetwork level.

Software Release: 5E8 and later.
Required Field.
Valid Entries: 0 - 9999

Data Rules:

For 5E9(2) and later, if the SUBNET ID field is entered, the CONFIGURATION on the corresponding EQIM form must support ISDN. For the CONFIGURATION that supports ISDN see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

2.13 SUBNET CNT

Description: Enter the Transit Subnetwork Count. This threshold value is used to detect invalid looping in the subnetwork within the LATA. It is the service provider's responsibility to ensure that the same value is provisioned for this parameter across the subnetwork.

Software Release: 5E8 and later.
Required Field.
Valid Entries: 0 - 14

Data Rules:

For 5E9(2) and later, if the SUBNET CNT field is entered, the CONFIGURATION on the corresponding EQIM form must support ISDN. For the CONFIGURATION that supports ISDN see the table Configurations for Facilities and Applications for the EQIM form in Division 8, Section 2.

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2.14 #ODB AMA

Description: Are AMA billing entries desired while a B-Channel is being set up for On Demand packet switching via Q.931 signaling? This field applies to a DSL that has the ODB (On Demand B-Channel) feature.

Software Release: 5E5 and later
Required Field.
Default: Y
Valid Entries: Y, N

2.15 PBG AMA MODULE

Description: Should the Billing TNs and PBGs (Packet Business Groups) specified on PBGRP forms (5931 Record) be included in packet business group AMA (Automatic Message Accounting) records?

Software Release: 5E8 and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

If this field is "Y", a BILLING TN must be entered on each PBGRP form.

NETWORK ID CODES

Fields Section 2.16 - Section 2.18 indicate the type of network in which the switch resides.

2.16 INIC

Description: This field indicates the INIC (ISDN Network Identification Code) of the ISDN network where this switch resides. Also, this field is used for the CNIC (Clearing Network Identification Code) in the PH (Protocol Handler).

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 9999

2.17 TNIC

Description: This field indicates the TNIC (Transit Network Identification Code) value to be used on X.75 trunks when the 5ESS Switch acts as a transit network.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 9999

2.18 PPSN DNIC

Description: This field indicates the DNIC (Data Network Identification Code) of the local telephone company PPSN (Public Packet Switch Network). This parameter will be used in the Protocol Handler to determine whether or not a packet call has crossed an X.75 trunk gateway.

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Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 9999

SWITCH SENSOR ID

The next fields (Section 2.19 - Section 2.20) indicate the Switch Sensor ID used in the AMA billing of packet calls.

2.19 SENSOR ID 1

Description: This field indicates the 1-digit portion of the Switch Sensor ID used in the AMA billing of packet calls.

Software Release: 5E6 and later
Default: 0
Valid Entries: 0 - 9

Data Rules:

For ISDN SMs, SENSOR ID 1 or SENSOR ID 2 must be entered and must have a value greater than 0. An ISDN SM is any SM where CONFIGURATION on the EQIM form has a value which supports ISDN.

2.20 #SENSOR ID 2

Description: This field indicates the 5-digit portion of the Switch Sensor ID used in the AMA billing of packet calls.

Software Release: 5E6 and later
Required Field.
Valid Entries: 0 - 32767

2.21 MAX MON

Description: This field indicates the maximum number of MLHG (Multi-Line Hunt Group) queue monitor consoles allowed in the office. A queue monitor console is an ISDN terminal which can display MLHG queue status data.

Software Release: 5E6 and later
Default: 20
Valid Entries: 0 - 255

ISDN BRI Q.931 TIMERS

For 5E7 and later, the ISDN basic call procedures are enhanced to include excessive call delay procedures. Timers associated with this feature are defined in this field group (fields Section 2.22 - Section 2.28).

2.22 T303

Description: This field sets the Q.931 setup response timer value for BRIs (Basic Rate Interfaces). The timer is initiated when a Q.931 setup message is sent to the CPE (Customer Premise Equipment) on a BRI. The timer is canceled when further call progress messages are received, e.g. alerting, connect, disconnect. If the timer expires, then excessive call delay procedures apply; a second setup is sent and if no call proceeding

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message is received, the T303 timer is restarted. If no response is received before the second T303 expires, then the terminating BRI is cleared.

The time is specified in seconds.

Software Release: 5E7 and later
Default: 2.5
Valid Entries: 1 - 4 in steps of 0.5 (seconds)

Data Rules:

The T303 timer value must be less than the T310 timer value.

2.23 T310

Description: This field sets the Q.931 call proceeding timer value for BRI. This timer is started when a Q.931 call proceeding message is received in response to a Q.931 setup message sent on a BRI. This timer is canceled when additional call progress messages are received, e.g. alerting, progress, connect, disconnect. If T310 expires before any response is received, then the terminating BRI is cleared.

The time is specified in seconds.

Software Release: 5E7 and later
Default: 5
Valid Entries: 3 - 10 (seconds)

Data Rules:

The T310 timer value must be greater than the T303 timer value.

2.24 T301

Description: This field sets the Q.931 ringing timer value for BRIs. The timer is initiated when a Q.931 alerting message, indicating that the CPE is "ringing," is received on a BRI. If T301 expires before receiving any messages, e.g. Q.931 connect or disconnect, then the terminating BRI is cleared.

The time is specified in minutes.

Software Release: 5E7 and later
Default: 5
Valid Entries: 3 - 7 (minutes)

2.25 T320

Description: The T320 timer is used by a packet switching On Demand B-channel with Conditional Notification. For information about the Conditional Notification feature, see Division 2, Section 5I.

T320 is an office timer defined by Bellcore TR 268. It is used for B-channel access to the PH. It is started when the switch sends or receives a CONNect message or after the clearing of the last virtual circuit on the B-channel. It is canceled when a new virtual call is established or when the user initiates B-channel disconnection procedures for the B-channel. The T320 timer is applicable only when the user has subscribed to Conditional Notification.

Software Release: 5E8 and later

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Required Field.
Default: 30
Valid Entries: 20 - 60 (seconds) in increments of 5

2.26 TI T1

Description: This field sets the TI T1 timer. The timer determines the maximum time (in seconds) a Standard BRI will wait for an initializing terminal to send an initialization request to the switch.

Software Release: 5E8 and later
Required Field.
Default: 20
Valid Entries: 1 - 30 (seconds)

2.27 FC T1

Description: This field sets the FC T1 timer. The timer determines the maximum time (in seconds) the switch will wait for a Standard CPE to send a HOLD ACKNOWLEDGE message after the switch has sent a HOLD message.

Software Release: 5E8 and later
Required Field.
Default: 4
Valid Entries: 1 - 10 (seconds)

2.28 DISP T2

Description: This field determines the length of time certain displays will appear on a BRI (Basic Rate Interface) CPE. It represents the TD-2 timer specified for ISDN displays in Bellcore TR-NWT-000865 for call control and selected services.

Software Release: 5E9(1) and later
Required Field.
Default: 30
Valid Entries: 10 - 60 (seconds)

ISDN PRI Q.931 TIMERS

2.29 T316

Description: This field determines the time to wait for a Q.931 REST ACK (Restart Acknowledgement) message after sending a Q.931 REST (Restart) message.

Software Release: 5E9(1) and later
Required Field.
Default: 30
Valid Entries: 10 - 20 (seconds, in 10 second intervals)

ISDN TONE/ANNOUNCEMENT

The following field defines ISDN tone and announcement parameters.

2.30 T306

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Description: This field sets the ISDN Tone and Announcement timer value. The timer is initiated when a tone or announcement is applied to the calling party on a BRI voice call. If the timer expires prior to the user disconnecting, then the BRI is cleared.

The time is specified in seconds.

Software Release: 5E7 and later
Default: 60
Valid Entries: 30 - 150 in steps of 30 (seconds)

PASC TIMER

The following timer is used to support the PCS/ISDN Interworking feature. The term "PASC" (Personal Communications Access Service - C Interface) is used to refer to this feature on the DSLUSR form.

2.31 ALT REQUEST

Description: Enter the ALT (Automatic Link Transfer) Request Timer in increments of 0.5 seconds. It is used to specify the time allowed for the ALT bridging to complete. When the switch recognizes an ALT request, the old RPCU (Radio Control Port Unit) is sent a facility message requesting permission to perform ALT bridging and a timer is started. The switch expects a facility message indicating that ALT bridging has been completed before the timer expires. If the timer expires, the ALT has failed and the call at the new RPCU is cleared. This field supports the the ISDN PCS Interworking feature. For more information on this feature, see Division 2, Section 1AM.

Software Release: 5E10 and later
Required Field.
Default: 1.0
Valid Entries: 0.5 - 5.0 (in 0.5 second increments)

ISDN INSPECT TIMER

The following field Section 2.32 defines the parameters for the ISDN Inspect feature. For more information on ISDN Inspect, see Division 2, Section 1BH.

2.32 ISDN INSPECT

Description: Enter the length of time (in seconds) that a user has, after initial depression of the Inspect feature button, to select another button or call appearance for inspection. The timer starts when the user presses the Inspect button and stops either when the timer expires or the user presses another feature button or call appearance.

Software Release: 5E11 and later.
Required Field.
Default: 3 (seconds)
Valid Entries: 1 - 10 (seconds)

PRI B CHL AVAIL SIG

2.33 RETRY SERV

Description: Enter the number of Service Message Retries. This field was added to support the PRI B

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Channel Availability Signaling Procedures feature (99-5E-3621) which provides the capability, on a National ISDN Primary Rate Interface, to send SERVICE and SERVice ACKnowledgement messages, from either end of the PRI, reporting the service status of a B-channel. This field is used to set the number of times a SERV message is resent seeking a SERV ACK message. See Division 2, Section 6I.

Software Release: 5E12 and later
Default: 2
Valid Entries: 1 - 4

2.34 PREX ON BRI

Description: Should REX (Routine Exercise) be prohibited for DSLs in the office? This field supports the Prohibit Routine Exercise on Basis Rate Interface Lines Per Office secured feature (SFID 266). Note that this field interacts with the PREX field on the DSL form which supports the Prohibit REX Per DSL Line feature (SFID 267).

See Division 2, Sections 4A266/267.

Software Release: 5E11 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is entered, SFID 266 ACT on the SFSYS form (5713 Record) must be "Y".

CRITICAL INDICATORS

The following fields (Section 2.35 - Section 2.42) support the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY.

2.35 CRIT PSN

Description: The CRIT PSN field is used to indicate whether the PSN field is critical.

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

2.36 CRIT IMPLIED NPA

Description: The CRIT IMPLD NPA field is used to indicate whether the IMPLIED NPA field is critical.

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

2.37 CRIT INIC

Description: The CRIT INIC field is used to indicate whether the INIC field is critical.

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

2.38 CRIT PPSN DNIC

Description: The CRIT PPSN DNIC field is used to indicate whether the PPSN DNIC field is critical.

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

2.39 CRIT TNIC

Description: The CRIT TNIC field is used to indicate whether the TNIC field is critical.

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

2.40 CRIT SENSOR ID 1

Description: The CRIT SENSOR ID 1 field is used to indicate whether the SENSOR ID 1 field is critical.

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

2.41 CRIT SENSOR ID 2

Description: The CRIT SENSOR ID 2 field is used to indicate whether the SENSOR ID 2 field is critical.

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

2.42 CRIT ILC

Description: The CRIT ILC field is used to indicate whether the ILC field is critical.

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

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```
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5941)                       ISDN  OFFICE OPTIONS

*1. KEY 0                          X75P ONLY           NETWORK ID CODES
                                #8. SUBNET_ID  _____    #12. INIC      _____
    DSL DFLT SRV                #9. SUBNET CNT __       #13. TNIC      _____
 2. DFLT SRV ________                                   #14. PPSN DNIC _____
                                10. ODB AMA        Y
      PACKET SWITCHING          11. PBG AMA MODULE Y       SWITCH SENSOR ID
 3. PSN                  ___                               15. SENSOR ID 1 0
 4. IMPLIED NPA          ___                              #16. SENSOR ID 2 _____
 5. FRAMES RETRANSMITTED _
 6. SEGMENT SIZE         016                               17. MAX MON 20
 7. ILC                  Y
```

```
isdnopt                           5ESS Switch           _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5941)                       ISDN  OFFICE OPTIONS

ISDN BRI Q.931 TIMERS    ISDN TONE/ANNOUNCEMENT    30. PREX ON BRI N
18. T303    2.5          26. T306 060
19. T310    05
20. T301    5                 PASC TIMER
21. T320    30           27. ALT REQUEST 1.0
22. TI T1   20
23. FC T1   04            ISDN INSPECT TIMER
24. DISP T2 30           28. ISDN INSPECT 03

ISDN PRI Q.931 TIMERS    PRI B CHL AVAIL SIG
25. T316 30              29. RETRY SERV 2
```

Figure 1 SAMPLE ISDNOPT FORM 5E12 SOFTWARE RELEASE

```
isdnopt                           5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5941)                       ISDN  OFFICE OPTIONS

*1. KEY 0                          X75P ONLY           NETWORK ID CODES
                                #8. SUBNET_ID  0000     #12. INIC      0001
    DSL DFLT SRV                #9. SUBNET CNT 0        #13. TNIC      0001
 2. DFLT SRV ________                                   #14. PPSN DNIC 0001
                                10. ODB AMA        Y
      PACKET SWITCHING          11. PBG AMA MODULE Y       SWITCH SENSOR ID
 3. PSN                  ___                               15. SENSOR ID 1 0
```

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```
 4. IMPLIED NPA          ___                              #16. SENSOR ID 2     1
 5. FRAMES RETRANSMITTED _
 6. SEGMENT SIZE         016                               17. MAX MON 20
 7. ILC                  Y
```

```
isdnopt                            5ESS Switch
SCREEN 2 OF 3               OFFICE DATA ADMINISTRATION
(5941)                         ISDN  OFFICE OPTIONS

ISDN BRI Q.931 TIMERS    ISDN TONE/ANNOUNCEMENT    30. PREX ON BRI N
18. T303    2.5          26. T306 060
19. T310    05
20. T301    5                 PASC TIMER
21. T320    30           27. ALT REQUEST 1.0
22. TI T1   20
23. FC T1   04            ISDN INSPECT TIMER
24. DISP T2 30           28. ISDN INSPECT 03

ISDN PRI Q.931 TIMERS    PRI B CHL AVAIL SIG
25. T316 30              29. RETRY SERV 2
```

```
isdnopt                            5ESS Switch
SCREEN 3 OF 3               OFFICE DATA ADMINISTRATION
(5941)                         ISDN  OFFICE OPTIONS

  CRITICAL INDICATORS
31. CRIT PSN         N
32. CRIT IMPLIED NPA N
33. CRIT INIC        N
34. CRIT PPSN DNIC   N
35. CRIT TNIC        N
36. CRIT SENSOR ID 1 N
37. CRIT SENSOR ID 2 N
38. CRIT ILC         N
```

Figure 2 SAMPLE ISDNOPT FORM 5E13 AND LATER SOFTWARE RELEASES

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SEC. 5C: 5942 RECORD
(REMOTE) INTEGRATED SERVICES LINE UNIT
LINE CARD FORM - ISLULC

1. GENERAL

The 5942 (Remote) Integrated Services Line Unit Line Card Record is available with the 5E4(2) and later Software Releases. It is used to define the Line Cards equipped on Remote or local Integrated Services Line Unit Line Group Controllers in a 5ESS Switch.

1.1 Recent Change View

The corresponding Recent Change View for this form is 22.7.

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 * (R)ISLU

Description: Enter the ISLU (Integrated Services Line Unit) or RISLU (Remote Integrated Services Line Unit) number.

Required Field.
Valid Entries: 0 - 7

2.4 * LGC

Description: Enter the Line Group Controller pack number on which the Line Cards are equipped.

Required Field.
Valid Entries: 0 - 15

Data Rules:

The LGC must be defined on an EQLGC form corresponding to the specified SM and (R)ISLU.

LINE CARDS

Up to thirty-two Line Cards can be equipped on each Line Group Controller. For each POS (Position) in which a Line Card is equipped, enter the following fields (Section 2.5 - Section 2.8).

2.5 TYPE

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Description: Enter the Line Card type.

Valid TYPE Entries

Entry	Definition
TLC	ISLU T-Card
ZLC	ISLU Analog Line Card (Z-CARD)
SZLC	ISLU Spare Z-Card
ULC	ISLU Phase 2 U-Card
ULCS	ISLU Phase 2 Spare U-Card
APC	ISLU Auxiliary Power Converter
AULC	Software Releases: 5E6 and later. ISLU ANSI U-Card
SAULC	Software Releases: 5E6 and later. ISLU Spare ANSI U-Card

Data Rules:

Spare Z-Cards can only be populated in positions 15 or 31. Spare Phase 2 U-Cards can only be in Position 15. Each spare Line Card that is equipped reduces the total number of lines available for customers by 1. Only two spare Line Cards (secondary and primary pair are counted as 1) may be operational per (R)ISLU at any given time.

Whenever a line group controller is equipped with the LGP KCD2 power circuit pack and with one or more Z-cards (ZLC, SZLC), or Phase 2 U-cards (ULC, ULCS), an APC (Auxiliary Power Converter) can only be defined in Position 8 of every line group controller. A maximum of 16 APCs are allowed per (R)ISLU.

If a line group controller is equipped with the LGP 553A or the LGP 553B power circuit pack, an APC should not be equipped for that LGC.

If the line group controller is equipped with only T-cards, an APC does not need to be equipped for that LGC, but equip Position 8 last; in case Z/U-cards are added later to that LGC, there will be no growth of T-cards required.

Dial Tone First service for analog lines (defined on the LINE form with COIN set to "DTF") requires an ISLU Z-card (defined on this form with a CLI value of 0) with EXPANDED INBAND SGNLING? set to "Y" on the OFCOPT form.

If an ISLULC form is submitted with any of Z or U-Cards, the EQISAP input form must be submitted with circuit pack type of "ISMAN".

For 5E6 and later, an ANSI U-Card occupies one position in the LGC; it can be used with only LGP 553B model power circuit pack, defined on the EQLGC form (5733 Record) with a CLI value of 02.

The spare ANSI U-Card can only be equipped in slot 15 of the LGC (enter "SAULC" in position 15, only).

2.6 EQST

Description: Enter the Equipment Status of the Line Card.

Valid EQST Entries

Entry	Definition
G	Growth Status.
O	Operational Status.
U	Unequipped Status.

Data Rules:

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New 5ESS Switch offices and equipment additions require the Operational status.

During off-line ODA data base retrofits, values other than 'O' may exist, but if they do, the EQST value here must be lower than, or equal to, the EQST on the EQLGC form entry for the LGC. The hierarchy of equipment status, from lowest to highest, are Unequipped, Growth and Operational.

2.7 CLI

Description: Enter the Change Level Indicator of the Line Card. For a complete listing of valid CLI values, J-Drawing and list combinations, see Division 8, Section 1.
Valid Entries: 0 - 7fffffff (hexadecimal)

2.8 PM GRP

Description: Enter the name of the Performance Monitoring group.

If PM GRP is not entered when TYPE is "AULC", "SAULC", "ULC", "ULCS", "PULC", or "SPULC", the threshold value from the PMDEF group defined on the PMTHRESH form (5948 Record) will be used.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

If this field is entered, TYPE must be "AULC", "SAULC", "ULC", or "ULCS".

For 5E8 and later, when PM GRP is entered, the corresponding PMTHRESH form (5948 Record) must be entered with PM TYPE of "DSL".

```
SCREEN 1 OF 2                    5ESS Switch
islulc                    OFFICE DATA ADMINISTRATION
(5942)          (REMOTE) INTEGRATED SERVICES LINE UNIT LINE CARD

* 1. SM          004
* 2. (R)ISLU     7
* 3. LGC          00
                                4. LINE CARDS
```

row	POS	TYPE	EQST	CLI	PM GRP	row	POS	TYPE	EQST	CLI	PM GRP
1	0	ZLC	O	00000000	_____	9	8	_____	_	_____	_____
2	1	AULC	O	00000000	PMDEF	10	9	_____	_	_____	_____
3	2	_____	_	_____	_____	11	10	_____	_	_____	_____
4	3	_____	_	_____	_____	12	11	_____	_	_____	_____
5	4	_____	_	_____	_____	13	12	_____	_	_____	_____
6	5	_____	_	_____	_____	14	13	_____	_	_____	_____
7	6	_____	_	_____	_____	15	14	_____	_	_____	_____
8	7	_____	_	_____	_____	16	15	_____	_	_____	_____

```
SCREEN 2 OF 2                    5ESS Switch              _
islulc                    OFFICE DATA ADMINISTRATION
```

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(5942) (REMOTE) INTEGRATED SERVICES LINE UNIT LINE CARD

4. LINE CARDS

row	POS	TYPE	EQST	CLI	PM GRP	row	POS	TYPE	EQST	CLI	PM GRP
17	16	_____	_	_____	_____	25	24	_____	_	_____	_____
18	17	_____	_	_____	_____	26	25	_____	_	_____	_____
19	18	_____	_	_____	_____	27	26	_____	_	_____	_____
20	19	_____	_	_____	_____	28	27	_____	_	_____	_____
21	20	_____	_	_____	_____	29	28	_____	_	_____	_____
22	21	_____	_	_____	_____	30	29	_____	_	_____	_____
23	22	_____	_	_____	_____	31	30	_____	_	_____	_____
24	23	_____	_	_____	_____	32	31	_____	_	_____	_____

Figure 1 SAMPLE ISLULC FORM 5E6 AND LATER SOFTWARE RELEASES

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SEC. 5E: 5944 RECORD
RISLU REMOTE ALARM SECTION BUILDING/MISCELLANEOUS ALARM SCAN POINT FORM - RIBMSC

1. GENERAL

The 5944 Record is available with the 5E4(2) and later Software Releases. It provides information about RISLU RAS (Remote Alarm Section) Building/Miscellaneous scan points. One RISLU at each RISLU site may be optionally equipped with a RAS that provides building/miscellaneous alarm scanning.

1.1 Recent Change View

The corresponding Recent Change view for this form is 26.15.

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 * SITE

Description: Enter the Remote Integrated Services Line Unit Site ID. The Site ID range of values is not to be confused with the RSM Site ID range.

Required Field.
Valid Entries: 500 - 999

2.3 * POINT NBR

Description: Enter the RAS alarm scan point number.

Scan points 0 and 1 are always required when a RISLU site has a RAS. These records are initialized for initial offices only from the RISITE form (5940 Record) when RAS EQUIPPED? is set to "Y".

Required Field.
Valid Entries: 2 - 31

2.4 IN USE

Description: Is the alarm operational? "Y" means that the alarm is operational; "N" means that no alarms will be reported.
Default: Y
Valid Entries: Y, N

2.5 MCC NAME

Description: Enter the name of the alarm as it should appear on the MCC (Master Control Center).
Valid Entries: 1 - 9 characters

2.6 TTY NAME

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Description: Enter the name of the alarm as it should appear on the tty. This is an office-assignable label to be included in craft output messages concerning the alarm scan point.
Valid Entries: 1 - 20 characters

2.7 ALARM LEVEL

Description: Enter the alarm level to be sounded when the scan point goes off-normal. This is office-assigned, based on the relative importance of the device being monitored.
Default: MIN
Valid Entries:

Valid ALARM LEVEL Entries

Entry	Definition
CRIT	Critical
MAJ	Major
MIN	Minor
ACT	Action
INFO	Information

2.8 PROTECT FROM RC

Description: This field is generated by the ODA system; it is not on the input form. It protects the record from Recent Change activity.

When set to 1, the record cannot be deleted or updated. This field is set to 1 for records where POINT NBR is 0 or 1 and is set to 0 for records where POINT NBR is 2 to 31.

```
ribmsc                          5ESS Switch             _
(5944)                   OFFICE DATA ADMINISTRATION
                      OSPS RISLU REMOTE ALARM ASSIGNMENT

*1. SITE         501
*2. POINT NBR    02
 3. IN USE       Y
 4. MCC NAME     _________
 5. TTY NAME     FIRE
 6. ALARM LEVEL  CRIT
```

Figure 1 SAMPLE RIBMSC FORM 5E5 AND LATER SOFTWARE RELEASES

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SEC. 5F: 5945 RECORD
LASS OFFICE PARAMETERS FORM - LASSOP

1. GENERAL

The 5945 Record is available with 5E5 and later Software Releases. The LASSOP form is an ODA (Office Data Administration) input form that is used to supply global office options and parameters for the LASS features.

The LASS features, AC (Automatic Callback), AR (Automatic Recall), COT (Customer Originated Trace) and ICLID (Individual Calling Line Identification), are available with 5E5 and later Software Releases.

The LSFs (LASS Selective Feature), SCA (Selective Call Acceptance), CAR (Computer Access Restriction), SCF (Selective Call Forwarding), SCR (Selective Call Rejection), and SDA (Selective Distinctive Alert), are available with 5E6 and later Software Releases.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.21.

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 * KEY

Description: The only valid entry is defaulted to 0.

CUST ORIG TRACE

The following fields (Section 2.3 - Section 2.12) furnish information regarding the COT (Customer Originated Trace) feature.

2.3 AGENCY

Description: Enter the TN of the agency to be contacted to find information regarding a trace. The TN will be displayed upon successful invocation of the COT feature.
Valid Entries: 10 digit TN (0 - 9) or blank

2.4 COT GA FEAT

Description: This field contains the COT Feature Name when the feature is generally available (defined on RC/V View 8.18).

Required Field.
Default: /COTGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

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The feature names must be defined on the LSCOTFD form (5972 Record).

2.5 ACTIVATE RTI

Description: This field contains the route index used to access the successful activation announcement after a COT request.
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 route index must be defined on the RTIDX form (5303 Record).

2.6 TRC NA RTI

Description: This field contains the route index used to access the trace not available announcement after a COT request.
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 route index must be defined on the RTIDX form (5303 Record).

2.7 NO RESRC RTI

Description: This field contains the route index used to access the buffer full announcement after attempting a COT activation.
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 route index must be defined on the RTIDX form (5303 Record).

2.8 COT ACT LVL

Description: Enter the level of COT activation that is supplied by the office.

Software Release: 5E7 and later
Required Field.
Default: 1
Valid Entries:

Valid COT ACT LVL Entries

Entry	Definition
1	Standard COT activation introduced with the 5E5 Software Release.
2	Software Release: 5E7 and later. Announcements and displays for COT activation.

Data Rules:

If a 2 is entered in this field, the following fields must be assigned:

- The FIXRT (5301-1 Record) form must have a FIXED ROUTE TYPE of "2LEVEL".
- The ANNAPL (5529 Record) form must have an APPLICATION of "2LEVEL" and at least 1 SM entered.
- On the EQRAP form (5822 Record), the DSU2-RAF must have the MICROCODE 5D142A20, L22 pack equipped, and APPLICATION must be "BRCS-2LV".

TWO LEVEL ONLY

The following fields (Section 2.9 - Section 2.12) are available with 5E7 and later and will be used only when 2-Level COT is provided by the office.

2.9 COT WAIT TIME

Description: Enter the amount of time (seconds) the switch will wait for the customer's response during a 2-Level COT activation request.

Software Release: 5E7 and later
Required Field.
Default: 7
Valid Entries: 1 - 15 seconds

2.10 COT MAX TIMEOUT

Description: This field is used to indicate how many times a customer is allowed to timeout during the interactive recorded announcements for 2-Level COT activation.

Software Release: 5E7 and later
Required Field.
Default: 3
Valid Entries: 1 - 5

2.11 COT MAX ERRS

Description: This field is used to indicate how many times a customer will be allowed to enter incorrect digits during the interactive recorded announcements for 2-Level COT activation.

Software Release: 5E7 and later
Required Field.
Default: 3
Valid Entries: 1 - 5

2.12 COT COST

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Description: This field is used to indicate whether the cost amount of the 2-Level COT activation will be included in the announcement.

If a value is not entered, a general announcement will be played indicating that the customer will be charged for the trace. If a value is supplied, the recorded announcement will include the value entered in this field.

Software Release: 5E7 and later
Valid Entries: 00.00 - 99.99 dollars

INDIV CLG LINE ID

The following fields (Section 2.13 - Section 2.14) furnish information regarding the ICLID feature.

2.13 PRI PRVT

Description: Will the originating users private TN be delivered to a Primary Rate Interface?

If "Y" is entered, the user's private TN will be delivered over the Primary Rate Interface along with a Common Channel Signaling presentation indicator set to "restricted". PRI PRVT is only used when STA ID on a TKGRP form (5202 Record) is "TRAN". When STA ID on a TKGRP form is set to "TRAN", and if PRI PRVT is set to "Y", private TNs will be delivered to the terminating trunk. If PRI PRVT is set to "N", private TNs will not be delivered to the terminating trunk. If STA ID is blank, PRI PRVT is not used.

NOTE: PRI PRVT is not used in conjunction with CPN BN OPT, only with STA ID. If PRI PRVT is set to "Y", CPN BN OPT must be set to "NONE".

Software Release: 5E5 and later
Default: 5E9(2) and earlier, Y

5E10 and later, N
Valid Entries: Y, N

2.14 PCP GA FEAT

Description: This field contains the PCP Feature Name when the feature is generally available (defined on RC/V View 8.18).

Required Field.
Default: /DIGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

The feature names must be defined on the DISPFD form (5965 Record).

BULK CLG LINE ID

Field Section 2.15 refers to the BCLID (Bulk Calling Line Identification) feature. For further information on BCLID, see Division 2, Section 1Y.

2.15 BILLING CYCLE

Description: Enter the Billing Cycle in hours. This entry specifies the interval for collection of BCLID AMA

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records. This parameter applies only for BCLID customers with usage-sensitive billing. Any change in the Billing Cycle will not take effect until the following midnight.

Software Release: 5E8 and later
Default: 24
Valid Entries: 1, 2, 3, 4, 6, 8, 12, or 24 (hours)

AUTOMATIC CALLBACK AND AUTOMATIC RECALL

The following fields (Section 2.16 - Section 2.47) furnish information regarding the AC and AR features.

The AC feature enables a user to automatically place a call to the LICDN (Last Incoming Calling Directory Number) of the terminal. The LICDN is defined as the address of the last party that called. Automatic Callback feature activation enables an end-user to automatically call back the last incoming calling directory number currently associated with the end-user's terminal.

The AR feature enables a calling terminal to automatically place a call to the LOCDN (Last Outgoing Directory Number) currently associated with the terminal and/or to camp on the LOCDN upon receiving busy treatment. The LOCDN is defined as the address of the last party called by a user of the calling terminal.

2.16 B/I SCAN

Description: This field indicates the busy/idle status scan rate for AC and AR.
Default: 60
Valid Entries:
5E6 and earlier: 45, 60, 75, 90, 105 and 120 seconds
5E7 and later: 30, 45, 60, 75, 90, 105 and 120 seconds

2.17 TIMEOUT

Description: This field indicates how long scanning will be performed during AC and AR.
Default: 30
Valid Entries: 15 - 45 minutes, in 1 minute intervals.

2.18 SCAN MODE

Description: This field indicates the type of scanning to be used during AC and AR.
Default: TERM
Valid Entries:

Valid SCAN MODE Entries

Entry	Definition
ORIG	Originating Scanning consists of the originating switch sending queries to the terminating switch at regular intervals (defined in the B/I SCAN field), until the idle status of the called TN is returned from the terminating switch.
TERM	Terminating Scanning consists of the originating switch asking the terminating switch to monitor the busy/idle status of the called TN, and to inform the originating switch when the called TN is found idle.

2.19 REINIT SCAN

Description: This field is used to specify the threshold which is used to determine whether or not the T1 timer

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should be reinitialized during reactivation of AC or AR.

The T1 timer is initialized during activation of AC and AR via the TIMEOUT field.

The T13 timer is initialized by the MAX CAMP field.

During reactivation of AC or AR, if the T13 timer is less than the value specified in this field, the T1 timer will not be reinitialized.

Software Release: 5E7 and later
Required Field.
Default: 300
Valid Entries:
0 - 300 in 15 second increments;
(e.g., 0, 15, ..., 270, 300)

2.20 TCAP

Description: This field indicates the time period the originating switch will wait for a response, after an AC/AR CCS (Common Channel Signaling) TCAP query has been sent to the terminating switch.
Default: 3
Valid Entries: 1 - 10 seconds

2.21 RNGBK TYPE

Description: This field indicates the type of distinctive ringing used for ringback. This field only applies to the Generally Available case, when the AC and AR feature is not assigned to the line.
Default: C
Valid Entries:

Valid RNGBK TYPE 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 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on and 4 seconds off.
D	repeated pattern 1.0 second on, 1.0 second off, 1.0 second on and 3.0 seconds off (also known as code 2 ringing).

2.22 RNG CYCLE

Description: This field indicates the number of AC or AR ringback ring cycles of a distinctive ringing pattern for one ringback attempt. Each ring cycle is 6 seconds.
Default: 4
Valid Entries: 2 - 7 ring cycles

2.23 MAX RNGBK

Description: This field is used by AC and AR to indicate the maximum number of ringback attempts per activation of the feature.

For Standard BRI users (DSL CLS is "STD" on the DSL form), Call Processing software will ignore this field and make only one ringback attempt.
Default: 1

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Valid Entries: 1 - 12 ringbacks

2.24 RNGBK WAIT

Description: This field is used by AC and AR to indicate the wait period between ringbacks after the initial unanswered ringback in minutes and seconds. For example, if 3 :15 is entered, ringbacks will occur every 3 minutes and 15 seconds.

This field does not apply to Standard BRI users (DSL CLS is "STD" on the DSL form) since only one ringback attempt will be made. For these users, Call Processing software will ignore any entry in MAX RNGBK and RNGBK WAIT.

Default Value 0 :0
Valid Entries: 0 :0, 3 - 12:SS min:sec; where SS is
0 - 45 in 15 second increments.

Data Rules:

This field must not be greater than 0 if MAX RNGBK is equal to 1.

2.25 AC TO COIN

Description: Will the customer be allowed to invoke the LASS AC feature towards coin phones?
Default: Y
Valid Entries: Y, N

2.26 AC TN UNIQ IGN

Description: Will the checking of the uniqueness of the LASS incoming calling TN (MLHG, PBX, shared TNs, and multiparty lines with the exception of two-party ANI lines are considered non-unique) be ignored upon AC invocation?
Default: N
Valid Entries: Y, N

2.27 AC GA FEAT

Description: This field contains the AC Feature Name when the feature is generally available (defined on RC/V View 8.18).

Required Field.
Default: /LACGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

The feature names must be defined on the LSACFD form (5970-1 Record).

2.28 AR GA FEAT

Description: This field contains the AR Feature Name when the feature is generally available (defined on RC/V View 8.18).

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Required Field.
Default: /LARGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

The feature names must be defined on the LSARFD form (5971-1 Record).

2.29 AC CNFRM RTI

Description: This field contains the route index used to access the AC confirmation announcement after an AC request.
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 route index must be defined on the RTIDX form.

2.30 AR CNFRM RTI

Description: This field contains the route index used to access the AR confirmation announcement after an AR request.
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 route index must be defined on the RTIDX form.

2.31 CF ACTIVE DNY RTI

Description: This field indicates the route index used to access the Call Forwarding Active Denial announcement. This announcement is provided when AC/AR activation is attempted on a line that has one of the following active: Call Forwarding Variable, LASS Selective Call Forwarding, Call Forwarding Night Service, LASS Selective Call Acceptance with forwarding, or LASS Computer Access Restriction with forwarding.

If this field is left blank, reorder tone will be provided.

Software Release: 5E7 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:

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The route index specified in this field must be defined on the RTIDX form.

2.32 LNG TRM DNY RTI

Description: This field contains the route index used to access the AC/AR timed-out without completion announcement after an AC or AR request.
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 route index must be defined on the RTIDX form.

2.33 AC CNCL RTI

Description: This field contains the route index used to access the AC cancellation announcement after the AC cancellation has been requested.
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 route index must be defined on the RTIDX form.

2.34 AR CNCL RTI

Description: This field contains the route index used to access the AR cancellation announcement after the AR cancellation has been requested.
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 route index must be defined on the RTIDX form.

2.35 PTY BUSY RTI

Description: This field contains the route index used to access the AC/AR party is busy announcement after AC or AR has been requested.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

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Data Rules:

The route index must be defined on the RTIDX form.

2.36 INTER LATA AC/AR

Description: Are AC/AR CCS7 TCAP (Transactions Capabilities Application Part) queries permitted across LATA boundaries?

Software Release: 5E6 and later
Default: N
Valid Entries: Y, N

2.37 AC ORIG CAMP LIM

Description: This field is used to indicate the maximum number of AC camp-ons that can be originated by a line. Short term denial (reorder tone) will be provided to the customer when the limit is exceeded.

Software Release: 5E7 and later
Required Field.
Default: 10
Valid Entries: 1 - 30

2.38 AR ORIG CAMP LIM

Description: This field is used to indicate the maximum number of AR camp-ons that can be originated by a line. Short term denial (reorder tone) will be provided to the customer when the limit is exceeded.

Software Release: 5E7 and later
Required Field.
Default: 10
Valid Entries: 1 - 30

2.39 TERM CAMP LIM

Description: This field is used to indicate how many AC/AR activations may camp-on to a single line. Short term denial (reorder tone) will be provided to the customer when the limit is exceeded.

Software Release: 5E7 and later
Required Field.
Default: 10
Valid Entries: 1 - 20

2.40 MAX CAMP TIME

Description: This field is used to indicate how long an AC or AR camp-on may remain active when the feature has been reactivated.

During an initial activation of AC and AR, the T13 timer is initialized to the value specified in this field.

An initial activation of AC or AR may be active for as long as the value specified in the TIMEOUT field. Reactivations of AC or AR to the same line may continue as long as the T13 timer has not expired.

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Software Release: 5E7 and later
Required Field.
Default: 180
Valid Entries:
120 - 240 in 15 minute increments;
(e.g., 120, 135, ..., 225, 240)

2.41 AC ACT LVL

Description: Enter the level of AC (Automatic Callback) activation that is supplied by the office.

Software Release: 5E7 and later
Required Field.
Default: 1
Valid Entries:

Valid AC ACT LVL Entries

Entry	Definition
1	Standard AC activation introduced with the 5E5 Software Release.
2	Software Release: 5E7 and later. Announcements and displays for AC activation.

Data Rules:

If a 2 is entered in this field, the following fields must be assigned:

- The FIXRT (5301-1 Record) form must have a FIXED ROUTE TYPE of "2LEVEL".
- The ANNAPL (5529 Record) form must have an APPLICATION of "2LEVEL" and at least 1 SM entered.
- On the EQRAP form (5822 Record), the DSU2-RAF must have the MICROCODE 5D142A20, L22 pack equipped, and APPLICATION must be "BRCS-2LV".

2.42 AC BLOCK TO PRIV N

Description: Is Automatic Callback blocked to private DNs? This field is used to activate the Automatic Callback Block to Private Number special feature. For more information on this feature, see Division 2, Section 4A111.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

2.43 AC BLOCK RTI

Description: Enter the blocked Automatic Callback announcement route index. This field specifies the route index of the announcement to be played when Automatic Callback Blocked to Private Number occurs.

Software Release: 5E8 and later
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095

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For 5E13 and later: Blank, or 1 - 16382

Data Rules:

For 5E 8 only, if AC BLOCK RTI is assigned on the LASSOP form, then the AC BLOCK RTI must be defined on a RTIDX form.

TWO LEVEL ONLY

The following fields (Section 2.44 - Section 2.47) are available with 5E7 and later and will be used only when 2-Level AC is provided by the office.

2.44 AC WAIT TIME

Description: Enter the amount of time (in seconds) the switch will wait for the customer's response during an AC request.

Software Release: 5E7 and later
Required Field.
Default: 7
Valid Entries: 1 - 15 seconds

2.45 AC MAX TIMEOUT

Description: This field is used to indicate how many times a customer is allowed to timeout during the interactive recorded announcements for 2-Level AC.

Software Release: 5E7 and later
Required Field.
Default: 3
Valid Entries: 1 - 5

2.46 AC MAX ERRS

Description: This field is used to indicate how many times a customer will be allowed to enter incorrect digits during the interactive recorded announcements for 2-Level AC.

Software Release: 5E7 and later
Required Field.
Default: 3
Valid Entries: 1 - 5

2.47 AC VOICE BACK

Description: Is the date and time of the last call returned to the customer for a 2-Level AC activation?

Software Release: 5E7 and later
Required Field.
Default: Y
Valid Entries: Y, N

SCREEN LIST EDITING

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The following fields (Section 2.48 - Section 2.52) are available with 5E6 and later Software Releases. They are used to define the global parameters for the LASS Selective Features.

2.48 INTER LATA SCREEN

Description: Will the CPN (Calling Party Number) be screened across LATA boundaries?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.49 MAX ERROR RETRY

Description: This field indicates how many user errors will be allowed before the Screen List Editing session will be terminated.

Software Release: 5E6 and later
Default: 4
Valid Entries: 1 - 10

2.50 RESP WAIT TIME

Description: This field indicates how long the switch will wait for a response from a CCS7 (Common Channel Signaling 7) TCAP (Transactions Capabilities Application Part) query during TN validation.

Software Release: 5E6 and later
Default: 10
Valid Entries: 1 - 10 seconds

2.51 VALIDATE LIST ENTRY

Description: Will interswitch Screen List entries be validated via CCS7 TCAP queries during a Screen List Editing session?

- ***NOTE:*** If this field is set to "Y", the switch will attempt to validate the screen list entry via a CCS7 TCAP query. Consequently, interoffice PRI calls will not pass validation even though its CPN (Calling Party Number) can be screened during LSF screening.

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

2.52 USE BELLCORE SLE

Description: Should the new Bellcore standard SLE interface be used? If "N", the AT&T Standard SLE Interface will be used.

Software Release: 5E8 and later
Required Field.
Default: N
Valid Entries: Y, N

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SELECTIVE CALL ACCEPT

The following fields (Section 2.53 - Section 2.56) are available with 5E6 and later Software Releases. They are used to define the global parameters for the LASS SCA (Selective Call Acceptance) feature.

2.53 SCA MAX SZE

Description: This field indicates how many TNs may be entered into the SCA Screen List.

Software Release: 5E6 and later
Required Field.
Default: 6
Valid Entries: 3 - 31

2.54 SCA REJ RTI

Description: This field indicates the route index used to access the SCA call rejection announcement. The announcement is provided after the CPN (Calling Party number) has failed LASS SCA screening.

Software Release: 5E6 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 route index must be defined on the RTIDX form (5303 Record).

2.55 SCA REJ BILL

Description: Will the calling party be billed for the SCA call rejection announcement, which is given when a TN has failed SCA screening?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.56 SCA GA FEAT

Description: This field contains the Generally Available SCA Feature.

Software Release: 5E6 and later
Required Field.
Default: /SCAGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

If a preconstructed feature is not used the constructed feature must be defined on the LSCAFD form (5975

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Record).

COMPUTER ACCESS RESTRICT

The following fields (Section 2.57 -Section 2.59) are available with 5E6 and later Software Releases. They are use to define the global parameters that pertain to the LASS CAR (Computer Access Restriction) feature.

2.57 CAR MAX SZE

Description: This field indicates how many LASS CAR Screening List entries are permitted.

Software Release: 5E6 and later
Required Field.
Default: 6
Valid Entries: 3 - 31

2.58 CAR REJ RTI

Description: This field indicates the route index used to the CAR announcement. The announcement is provided after the CPN (Calling Party number) has failed LASS CAR screening.

Software Release: 5E6 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 route index must be defined on the RTIDX form (5303 Record).

2.59 CAR REJ BILL

Description: Will the calling party be billed for the LASS CAR announcement given after a CAR screening failure?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

SELECTIVE CALL REJECTION

The following fields (Section 2.60 -Section 2.65) are available with 5E6 and later Software Releases. They are used to define the global parameters that pertain to the LASS SCR (Selective Call Rejection) feature.

2.60 SCR MAX SZE

Description: This field indicates how many LASS SCR Screening List entries will be permitted.

Software Release: 5E6 and later
Required Field.

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Default: 6
Valid Entries: 3 - 31

2.61 HARSH RTI

Description: This field indicates the route index used to access the SCR harsh announcement. The announcement is provided after the CPN (Calling Party Number) has failed LASS SCR screening.

Software Release: 5E6 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 route index must be defined on the RTIDX form (5303 Record).

2.62 HARSH BILL

Description: Will the calling party be billed for the LASS SCR harsh announcement given after a SCR screening failure?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.63 GENTLE RTI

Description: This field indicates the route index used to access the SCR gentle announcement. The announcement is provided after the CPN (Calling Party Number) has failed LASS SCR screening.

Software Release: 5E6 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 route index must be defined on the RTIDX form (5303 Record).

2.64 GENTLE BILL

Description: Will the calling party be billed for the LASS SCR gentle announcement given after a SCR screening failure?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

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2.65 SCR GA FEAT

Description: This field contains the Generally Available SCR Feature Name.

Software Release: 5E6 and later
Required Field.
Default: /SCRGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

If a preconstructed feature is not used, the constructed feature must be defined on the LSCRFD form (5977 Record).

SELECTIVE DISTINCTIVE ALERT

The following fields (Section 2.66 - Section 2.67) are available with 5E6 and later Software Releases. They are used to define the global parameters that pertain to the LASS SDA (Selective Distinctive Alert) feature.

2.66 SDA MAX SZE

Description: This field indicates how many TNs may be entered into the SDA Screen List.

Software Release: 5E6 and later
Required Field.
Default: 6
Valid Entries: 3 - 31

2.67 SDA GA FEAT

Description: This field contains the Generally Available SDA Feature Name.

Software Release: 5E6 and later
Default: /SDAGA

Required Field.
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

If a preconstructed feature is not used the constructed feature must be defined on the LSDAFD form (5978 Record).

SELECTIVE CALL FORWARD

The following fields (Section 2.68 - Section 2.69) are available with 5E6 and later Software Releases. They are used to define the global parameters that pertain to the LASS SCF (Selective Call Forwarding) feature.

2.68 SCF MAX SZE

Description: This field indicates how many TNs may be entered into the SCF Screen List.

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Software Release: 5E6 and later
Required Field.
Default: 6
Valid Entries: 3 - 31

2.69 SCF GA FEAT

Description: This field contains the Generally Available SCF Feature Name.

Software Release: 5E6 and later
Required Field.
Default: /SCFGA
Valid Entries: 1 to 8 characters long, with no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features.

Data Rules:

If a preconstructed feature is not used the constructed feature must be defined on the LSCFFD form (5976 Record).

FORWARDING TREATMENT

The following fields (Section 2.70 - Section 2.72) are available with 5E6 and later Software Releases. They are used to define the global parameters that pertain to the LASS SCF and SCA/CAR features.

2.70 FORWARDING MAX

Description: This field indicates how many times a single call may forwarded sequentially.

Software Release: 5E6 and later
Required Field.
Default: 5
Valid Entries: 1 - 32

2.71 SIM INTER OFC FWD

Description: This field indicates how many simultaneous interoffice calls may be forwarded before busy tone is provided to the calling party.

Software Release: 5E6 and later
Default: 1
Valid Entries: 1 - 99

2.72 SIM INTRA OFC FWD

Description: This field indicates how many simultaneous intraoffice calls may be forwarded before busy tone is provided to the calling party.

Software Release: 5E6 and later
Default: 99
Valid Entries: 1 - 99

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DISPLAY

The following field(s) (Section 2.73 -Section 2.74) applies to information displayed on CPEs (Customer Premises Equipment).

2.73 CNAM TCAP

Description: Enter the CNAM CCS TCAP query wait period (in seconds). When the CNAM TCAP timer is 3 seconds or less, there is no customer perceived delay to power ringing. If the CNAM TCAP timer value is set to greater than 3 seconds, the customer can experience a delay of as much as 3 seconds before the start of power ringing. The delay can be as large as the difference between the CNAM TCAP timer value and 3. For example, a CNAM TCAP timer value of 5 could result in a delay of as much as 2 seconds. This delay is caused by waiting for the TCAP response before power ringing.

Software Release: 5E7 and later
Required Field.
Default: 3
Valid Entries: 1 - 6 (seconds)

2.74 CNAM SRC

Description: This field is used by the Originating Switch Calling Name feature to indicate whether the source for obtaining the calling name is from the SCP (Service Control Point) or from ODD (Office Dependent Data) stored locally on the switch. If CNAM SRC field is set to the default value of "Blank" then the Originating Switch Calling Name feature will be inactive.

Software Release: 5E13 and later
Default: Blank (feature inactive)
Valid Entries: Blank, ODD, or SCP

Data Rules:

The Originating Switch Calling Name feature is a secured feature. The ACT field for SFID 318 must be set to "Y" on the SFSYS form (Record 5713-1) before "ODD" or "SCP" can be entered in the CNAM SRC field.

GENERAL

The following field is available for 5E9(1) and later Software Releases. This field applies to information for LASS error treatment.

2.75 ERROR TREAT RTI

Description: Enter the route index for LASS error treatment. The LASS error announcement is provided by a 13A announcement channel via the RTI specified in this field. If the field is blank, reorder tone is provided. This field applies only to analog lines.

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

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CALL WAITING DELUXE

The following field defines the office parameter for Call Waiting Deluxe. This field supports 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.

2.76 AMA AGGR TIME

Description: Call Waiting Deluxe AMA Aggregation Time. A certain time of day is selected in which usage of the Call Waiting Deluxe conferencing is calculated for the purpose of billing.

Software Release: 5E10 and later
Default: 0
Valid Entries: 0 to 23 (selectable on the hour).

*AUDIBLE CALLING NAME ON *69 (AUTOMATIC CALLBACK)*

The following fields (Section 2.77 - Section 2.83) are available with 5E14 and later Software Releases. They are used to define the global parameters that pertain to the Audible Calling Name on *69 (Automatic Callback) feature.

2.77 IP DN

Description: Intelligent Peripheral's Dialing Number. This field is used to make a call to the Intelligent Peripheral for audible calling name treatment.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 15

Data Rules:

When IP DN is entered:

IP DAS must be entered.

IP SCR must be entered.

For 5E14 and later, Audible Calling Name on *69 (Automatic Callback) is a secured feature and must be purchased by the office before this field can be entered. Consequently, the ACT field for SFID 549 must be set to "Y" on the SFSYS form (5713-1 Record) before IP DN can be entered.

2.78 IP DAS

Description: Intelligent Peripheral's Directory Number Digit Analysis Selector. This field defines a digit analysis selector. It indicates which digit interpreter tables to use for analyzing intelligent peripheral's directory number.

Software Release: 5E14 and later
Valid Entries:

For 5E14 and earlier: Blank, or 1 - 99
For 5E15 and later: Blank, or 1 - 254

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Data Rules:

When IP DAS or IP SCR is known, IP DN must be entered.

For 5E14 and later,

if IP DAS entered on this form is defined on the DAS form (5300-1 Record), then LOCAL DIT (under LINE DAS) on the DAS form must be entered on the LDIT form (5300 Record) where CODE INDEX or CDI is entered, and all combinations of IP SCR entered on this form and CODE INDEX or CDI entered on the LDIT form must be entered on the RAR form (5301 Record) in the SCR and CDI fields respectively.

the IP DAS assigned on this form must be defined on the DAS form.

2.79 IP SCR

Description: Intelligent Peripheral's Directory Number Screening Index. This field defines a screening index used for digit analysis of the intelligent peripheral's directory number.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 4095

Data Rules:

When IP DN is entered:

IP DAS must be entered.

IP SCR must be entered.

For 5E16(2) and later, when IP SCR is not entered, IP RAX and IP CODE RESTRICT must be blank or 0.

2.80 IP RAX

Description: This field represents the Rate Center that is associated with a line or trunk . The rate center allows for different billing rates and routing. Also, this field is only used for the Audible Calling Name feature.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no IP RAX, or 1 - 999

2.81 IP CODE RESTRICT

Description: This field is used to restrict certain CDIs (Code Indices) that should be blocked. This field is only used for the Audible Calling Name feature.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no IP CODE RESTRICT, or 1 - 125

2.82 IP ANS TIMER

Description: Intelligent Peripheral Audible Calling Answer Timer. This field defines a length of time after the switch initiates a call to the Intelligent Peripheral that the switch will wait for an answer before beginning error treatment.

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Software Release: 5E14 and later
Required Field.
Default: 2.0
Valid Entries: 0.1 - 10.0 (in increments of 0.1 seconds)

2.83 IP DISC TIMER

Description: Intelligent Peripheral's Audible Calling Disconnect Timer. This field defines a length of time after the switch receives answer from the Intelligent Peripheral that the switch will wait for a disconnect from the Intelligent Peripheral before the switch itself initiates a disconnect to the intelligent Peripheral.

Software Release: 5E14 and later
Required Field.
Default: 3.0
Valid Entries: 0.1 - 10.0 (in increments of 0.1 seconds)

```
SCREEN 1 OF 5                    5ESS Switch
lassop                    OFFICE DATA ADMINISTRATION
5945                        LASS OFFICE PARAMETERS

*1. KEY 0

          CUSTOMER ORIGINATED TRACE (COT)                    INDIV CLG LINE ID
 2. AGENCY        ___________        TWO LEVEL ONLY       14. PRI PRVT    N
 3. COT GA FEAT  /COTGA       8. COT WAIT TIME   7        15. PCP GA FEAT /DIGA
 4. ACTIVATE RTI ______       9. COT MAX TIMEOUT 3
 5. TRC NA RTI   ______      10. COT MAX ERRS    3            BULK CLG LINE ID
 6. NO RESRC RTI ______      11. COT COST        __.__   16. BILLING CYCLE 24
 7. COT ACT LVL  1
```

```
SCREEN 2 OF 5                    5ESS Switch
lassop                    OFFICE DATA ADMINISTRATION
5945                        LASS OFFICE PARAMETERS

              AUTOMATIC CALLBACK (AC) AND AUTOMATIC RECALL (AR)
17. B/I SCAN    60     29. AC TN UNIQ IGN    N        40. AC ORIG CAMP LIM 10
18. TIMEOUT     30     30. AC GA FEAT        /LACGA   41. AR ORIG CAMP LIM 10
19. SCAN MODE   TERM   31. AR GA FEAT        /LARGA   42. TERM CAMP LIM    10
20. REINIT SCAN 300    32. AC CNFRM RTI      ______   43. MAX CAMP TIME    180
21. TCAP        3      33. AR CNFRM RTI      ______   44. AC ACT LVL       1
22. RNGBK TYPE  C      34. CF ACTIVE DNY RTI ______   45. AC BLOCK TO PRIV N
23. RNG CYCLE   4      35. LNG TRM DNY RTI   ______   46. AC BLOCK RTI     ______
24. MAX RNGBK   1      36. AC CNCL RTI       ______
25. RNGBK WAIT  0 :0   37. AR CNCL RTI       ______
28. AC TO COIN  Y      38. PTY BUSY RTI      ______
                       39. INTER LATA AC/AR  N
```

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```
SCREEN 3 OF 5                    5ESS Switch
lassop                     OFFICE DATA ADMINISTRATION
5945                         LASS OFFICE PARAMETERS

    TWO LEVEL AC            SELECTIVE CALL ACCEPT       SELECTIVE CALL REJECT
47. AC WAIT TIME   7        56. SCA MAX SZE  06         63. SCR MAX SZE 06
48. AC MAX TIMEOUT 3        57. SCA REJ RTI  _____      64. HARSH RTI   _____
49. AC MAX ERRS    3        58. SCA REJ BILL N          65. HARSH BILL  N
50. AC VOICE BACK  Y        59. SCA GA FEAT  /SCAGA     66. GENTLE RTI  _____
                                                        67. GENTLE BILL N
SCREEN LIST EDITING         COMPUTER ACCESS RESTRICT    68. SCR GA FEAT /SCRGA
51. INTER LATA SCREEN  N    60. CAR MAX SZE  06
52. MAX ERROR RETRY    4    61. CAR REJ RTI  _____
53. RESP WAIT TIME     10   62. CAR REJ BILL N
54. VALIDATE LST ENTRY Y
55. USE BELLCORE SLE   N
```

```
SCREEN 4 OF 5                    5ESS Switch
lassop                     OFFICE DATA ADMINISTRATION
5945                         LASS OFFICE PARAMETERS

SELECTIVE DISTINCT ALERT           DISPLAY
69. SDA MAX SZE 06              76. CNAM TCAP 3
70. SDA GA FEAT /SDAGA          77. CNAM SRC  ___

SELECTIVE CALL FORWARD                GENERAL
71. SCF MAX SZE 06              78. ERROR TREAT RTI _____
72. SCF GA FEAT /SCFGA

                                 CALL WAITING DELUXE
FORWARDING TREATMENT            79. AMA AGGR TIME  0
73. FORWARDING MAX    05
74. SIM INTER OFC FWD 01
```

```
SCREEN 5 OF 5                    5ESS Switch             _
lassop                     OFFICE DATA ADMINISTRATION
5945                         LASS OFFICE PARAMETERS

   AUDIBLE CALLING NAME FOR AC
80. IP DN         ________________
81. IP DAS        ___
82. IP SCR        _____
83. IP ANS TIMER  2.0
84. IP DISC TIMER 3.0
```

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Figure 1 SAMPLE LASSOP FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```
SCREEN 1 OF 5                    5ESS Switch
lassop                    OFFICE DATA ADMINISTRATION
5945                        LASS OFFICE PARAMETERS

*1. KEY 0

          CUSTOMER ORIGINATED TRACE (COT)                    INDIV CLG LINE ID
 2. AGENCY        __________        TWO LEVEL ONLY       14. PRI PRVT    N
 3. COT GA FEAT  /COTGA       8. COT WAIT TIME   7       15. PCP GA FEAT /DIGA
 4. ACTIVATE RTI ______       9. COT MAX TIMEOUT 3
 5. TRC NA RTI   ______      10. COT MAX ERRS    3           BULK CLG LINE ID
 6. NO RESRC RTI ______      11. COT COST        __.__   16. BILLING CYCLE 24
 7. COT ACT LVL  1
```

```
SCREEN 2 OF 5                    5ESS Switch
lassop                    OFFICE DATA ADMINISTRATION
5945                        LASS OFFICE PARAMETERS

              AUTOMATIC CALLBACK (AC) AND AUTOMATIC RECALL (AR)
17. B/I SCAN    60     29. AC TN UNIQ IGN    N        40. AC ORIG CAMP LIM 10
18. TIMEOUT     30     30. AC GA FEAT        /LACGA   41. AR ORIG CAMP LIM 10
19. SCAN MODE   TERM   31. AR GA FEAT        /LARGA   42. TERM CAMP LIM    10
20. REINIT SCAN 300    32. AC CNFRM RTI      _____    43. MAX CAMP TIME    180
21. TCAP        3      33. AR CNFRM RTI      _____    44. AC ACT LVL       1
22. RNGBK TYPE  C      34. CF ACTIVE DNY RTI _____    45. AC BLOCK TO PRIV N
23. RNG CYCLE   4      35. LNG TRM DNY RTI   _____    46. AC BLOCK RTI     _____
24. MAX RNGBK   1      36. AC CNCL RTI       _____
25. RNGBK WAIT  0 :0   37. AR CNCL RTI       _____
28. AC TO COIN  Y      38. PTY BUSY RTI      _____
                       39. INTER LATA AC/AR  N
```

```
SCREEN 3 OF 5                    5ESS Switch
lassop                    OFFICE DATA ADMINISTRATION
5945                        LASS OFFICE PARAMETERS

    TWO LEVEL AC           SELECTIVE CALL ACCEPT       SELECTIVE CALL REJECT
47. AC WAIT TIME   7       56. SCA MAX SZE  06         63. SCR MAX SZE 06
48. AC MAX TIMEOUT 3       57. SCA REJ RTI  _____      64. HARSH RTI   _____
49. AC MAX ERRS    3       58. SCA REJ BILL N          65. HARSH BILL  N
50. AC VOICE BACK  Y       59. SCA GA FEAT  /SCAGA     66. GENTLE RTI  _____
                                                       67. GENTLE BILL N
SCREEN LIST EDITING        COMPUTER ACCESS RESTRICT    68. SCR GA FEAT /SCRGA
```

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```
51. INTER LATA SCREEN  N   60. CAR MAX SZE  06
52. MAX ERROR RETRY    4   61. CAR REJ RTI  _____
53. RESP WAIT TIME     10  62. CAR REJ BILL N
54. VALIDATE LST ENTRY Y
55. USE BELLCORE SLE   N
```

```
SCREEN 4 OF 5                      5ESS Switch
lassop                        OFFICE DATA ADMINISTRATION
5945                            LASS OFFICE PARAMETERS

SELECTIVE DISTINCT ALERT             DISPLAY
69. SDA MAX SZE 06              76. CNAM TCAP 3
70. SDA GA FEAT /SDAGA          77. CNAM SRC  ___

SELECTIVE CALL FORWARD                  GENERAL
71. SCF MAX SZE 06              78. ERROR TREAT RTI _____
72. SCF GA FEAT /SCFGA
                                 CALL WAITING DELUXE
FORWARDING TREATMENT            79. AMA AGGR TIME  0
73. FORWARDING MAX    05
74. SIM INTER OFC FWD 01
```

```
SCREEN 5 OF 5                      5ESS Switch              _
lassop                        OFFICE DATA ADMINISTRATION
5945                            LASS OFFICE PARAMETERS

   AUDIBLE CALLING NAME FOR AC
80. IP DN              _________________
81. IP DAS             ___
82. IP SCR             _____
83. IP RAX             ___
84. IP CODE RESTRICT   ___
85. IP ANS TIMER       2.0
86. IP DISC TIMER      3.0
```

Figure 2 SAMPLE LASSOP FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 5G: 5946 RECORD
LASS CHOKE LIST FORM - LASSCK

1. GENERAL

The 5946 Record is available with 5E5 and later Software Releases. This form allows an office to construct a list of TNs that cannot be camped-on during an AC (Automatic Callback) or AR (Automatic Recall) invocation because they are reserved for special applications like mass calling triggered by radio stations.

This form allows TNs to be entered uniquely on an NPA basis, a NOC basis, or an individual line basis.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.19.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * KEY

Description: Enter the key value which is always 0.

Required Field.
Valid Entries: 0

2.3 CHOKE NUMBERS

Description: The choke number list allows a maximum of 16 entries. This list of numbers will not be allowed to be camped-on to during an AC or AR invocation. The digits must be entered uniquely by a 3-digit NPA, a 6-digit NPA-NXX and/or a 10-digit NPA-NXX-XXXX.
Valid Entries: 3, 6, or 10 digits
For 5E7 and earlier: 200 - 919 middle digit 0 - 1
For 5E8 and later: 200 - 999

```
lassck                          5ESS Switch              _
5946                      OFFICE DATA ADMINISTRATION
                               LASS CHOKE LIST

*1. KEY 0

                    2. CHOKE NUMBERS

 1. 3123554000       7. ___________      13. ___________
 2. ___________      8. ___________      14. ___________
 3. ___________      9. ___________      15. ___________
 4. ___________     10. ___________      16. ___________
```

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5. _____ 11. _____
6. _____ 12. _____

Figure 1 SAMPLE LASSCK FORM 5E5 AND LATER SOFTWARE RELEASES

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SEC. 5H: 5947 RECORD
LASS PREFIX EXCEPTION LIST - LASSPFX

1. GENERAL

The 5947 Record is available with 5E5 and later Software Releases. A prefix of 1 may be required by offices when dialing an NPA or an NPA-NXX. If an office selects to use a prefix, there may be some exceptions where a prefix cannot be used. If an office chooses not to use a prefix, there may be some exceptions where a prefix is needed. This form allows an office to create a list of TNs which are exceptions to the office standard.

This form allows the user to set aside a maximum of ten entries in the list which are an exception to the office prefix dialing standard. Each of the entries may be 3 (NPA) or 6 (NPA-NXX) digits in length.

1.1 Recent Change View

The corresponding Recent Change view for this form is 8.20.

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 * KEY

Description: The key value is always 0.

Required Field.
Valid Entries: 0

2.3 1+ PFX USED

Description: Is the office standard to accept DNs dialed with a 1 prefixed to a particular NPA or NPA-NXX?

If PFX USED is set equal to "Y", then 1+ NPA and/or 1+NPA-NXX is defined in the office dialing plan and will route to the DN.

If PFX USED is set equal to "N", then NPA and/or NPA-NXX is defined in the office dialing plan and will route to the DN.

Required Field.
Default: Y
Valid Entries: Y, N

2.4 EXCEPTIONS

Description: This is a list of up to ten dialable codes within an office that are exceptions to what the office prefix standard is for AC invocations. The Exception digits in each entry specify either a 3-digit NPA or a 6-digit NPA-NXX.

Any entries with only an NPA value will supersede the same NPA entered with an NXX value, thus wasting one exception entry (NPA-NXX).
Valid Entries: 3 or 6 digits

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For 5E7 and earlier: 200 - 919 middle digit 0 - 1
For 5E8 and later: 200 - 999

Data Rules:

The Exception List entries must be unique.

```
lasspfx                          5ESS Switch              _
5947                       OFFICE DATA ADMINISTRATION
                           LASS PREFIX EXCEPTION LIST

*1. KEY          0
 2. 1+ PFX USED Y

       3. EXCEPTIONS

 1. 312411    6.  _______
 2. _______   7.  _______
 3. _______   8.  _______
 4. _______   9.  _______
 5. _______   10. _______
```

Figure 1 SAMPLE LASSPFX FORM 5E5 AND LATER SOFTWARE RELEASES

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SEC. 5I: 5948-1/2/3 RECORD PERFORMANCE MONITORING - THRESHOLD GROUP FORM - PMTHRESH

1. GENERAL

The PMTHRESH form (5948 Record) is available with 5E6 and later Software Releases. It is used to define a set of performance monitoring thresholds to be used by an individual BRI (Basic Rate Interface) or group of BRIs with ISLU (Integrated Services Line Unit) terminal facilities (DSL OE type "I"). (Any reference to ISLU also applies to RISLU (Remote Integrated Services Line Unit) terminal facilities.) For more information on ISLU assignments, see the DSL form (5907 Record).

For 5E8 and later, the PMTHRESH form was modified to include performance monitoring for IDCU (Integrated Digital Carrier Unit) facilities (DSL OE types "G" and "M") and DFI-2 (Digital Facility Interface-2) terminal facilities. To accommodate these additional facilities, the 5948 Record was expanded to 5948-1/2/3. For information on IDCU and DFI-2, see the EQIDCU form (5846 Record) and the EQDUP form (5730 Record), respectively.

Performance monitoring is the ability to collect and report performance data for terminal facilities. The operating company has the ability to inhibit and allow the setting and reporting of performance monitoring thresholds.

Performance monitoring applies to all U-cards (5E4(2) and later Software Releases), however, not all of the performance monitoring threshold values apply to each individual U-card. If a certain threshold does not apply, no alert or report data will be generated for that particular U-card.

For 5E6 and later, two types of thresholds are defined on this form: Alert Thresholds and Report Thresholds. Alert thresholds are provided for autonomous alerting when the corresponding current hour or current daily threshold values are reached. The two types of current hour and current daily thresholds are ES (Errored Seconds) and SES (Severely Errored Seconds). These values apply to both directions of BRI transmission, and can be set per performance monitoring group or per U-BRI. Both threshold types should be updated periodically via special port conditioning to ensure their correctness.

The two types of ALE (Automated Line Evaluation) Report thresholds are current interval thresholds and current daily thresholds. The current interval threshold can be set in increments of one hour up to twenty-four hours; if the interval is twenty-four hours, the daily interval report will be generated in place of the current interval report. When one of these report threshold values is exceeded for a particular U-BRI, report data will be sent to the MCC (Maintenance Control Console), SCCS (Switching Control Center System), or ALIT (Automatic Line Insulation Test) channel. Both the current interval and current daily reports contain the following data:

- Line equipment identification
- Current interval or current daily ES or SES counts for both directions of transmission (upstream and downstream)
- Interval or daily threshold for this particular U-BRI
- Indication if counts have been corrupted by either clearing or corrupting Cyclic Redundancy Code tests.

For DSL, the DSL INH GRP field allows you to inhibit performance monitoring for a particular PM GRP name. If activated, all other "inhibit" values for that same DSL PM GRP set on this form will be overridden. (This

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capability is not available for IFAC and DFI-2 PM groups.)Manual on-demand performance monitoring reports are also available, but require no specific data entered via the 5948 Record. However, if an interval report is being generated at the time of an on-demand request for a manually generated report, the craft will be informed to retry their request at another time.

Only one report threshold applies to the ANSI U-card; this threshold is the Daily Report Threshold.

For 5E8 and later, additional performance monitoring thresholds were added for IDCU/IFAC and DFI-2 facilities, as follows:

For IDCU/IFAC:

- FLS (Frame Loss Second) - A loss of frame alignment occurs when there are 2 or more framing bit errors out of 4 consecutive framing bits.
- SS (Slip Second) - A slip second is counted whenever one or more slip events occur during a given 10-second interval. A slip event is the insertion or deletion of data bits into or from the data stream and is the direct result of equipment buffer overflow or underflow resulting from improperly timed network equipment.
- UAS (Unavailable Second) - A second with a failed signal condition.

For DFI-2 facilities:

- BPV (Bipolar Violation) - A BPV is a violation of bipolar line coding in which two logically level consecutive pulses occur with the same polarity, excluding B8Zs coding.
- BES (Bursty Errored Second) - A second with at least one, but less than 320, CRC-6 errors.
- COFA (Change of Frame Alignment) - One COFA count is pegged for one or more COFA events in a 10 second interval. A COFA event is declared after a LOFA (Loss of Frame Alignment) (2 or more framing bit errors out of 4 consecutive framing bits) if the current frame alignment is incorrect.
- FS (Failed Second) - A second with a Failed Signal condition: Local "red alarm", AIS (Alarm Indication Signal) "blue alarm", or framing bit error (FER). During a failed second, ES, SES, BES, and SS are not accumulated.
- CRC (Cyclic Redundancy Check) - A cyclic redundancy check error occurs when the computed CRC-6 code for the incoming signal does not match the received code. This event applies only to DS1 Extended Superframe Format (ESF).

For 5E6 and later, the following preconstructed and office default PM groups were available for DSL: /PMGDEF, PMDEF. For 5E8 and later, the DFI-2 PM group was enhanced to include data support. In addition, the following preconstructed groups and office default PM groups were added for IFAC (IDCU Facilities) and DFI-2 facilities, respectively: /FACGDEF; FACDEF and /DF2GDEF; DF2DEF. These are shown in Figures 1 and 2. The maximum number of PM GRPs per PM TYPE is 256 including the switch-owner default group. (Note that the switch-owner default group cannot be deleted via Recent Change.)

Each DSL, IFAC, or DFI-2 PM GRP name must also have associated threshold values defined on this form. If a value is not entered for a particular threshold, a threshold value will be set with the default values from the switch-owner default group record. If switch-owner default thresholds are also not entered, the ODA preconstructed thresholds will be used.

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Values from the ODA preconstructed PM GRP records can be used as "templates" to enter and change thresholds for a DSL, IFAC, or DFI-2 group. These values cannot be directly assigned for a PM GRP on the respective ISLULC form (5942 Record), DSL form (5907 Record), EQIFAC form (5847 Record), or the EQDUP form (5730 Record).

1.1 Recent Change View

This record is equivalent to Recent Change view 22.15.

2. FORM ENTRIES - 5948-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *PM GRP

Description: Define the performance monitoring group.

This field is used to define a name for a PM group. The name defined must be different from the ODA preconstructed default groups and the switch-owner default groups shown in Figures 1 and 2. The maximum number of PM GRPs allowed per PM type is 256 including the switch owner default group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

Performance Monitoring groups entered on the ISLULC form (5942 Record) with PM TYPE of "DSL" must be defined on this form.

Performance Monitoring groups entered on the EQIFAC form (5847 Record) with PM TYPE of "IFAC" must be defined on this form.

Performance Monitoring groups entered on the EQDUP form (5730 Record) with PM TYPE of "DFI2" must be defined on this form.

For 5E6 and later, if an ISDNOPT form (5941 Record) is entered indicating ISDN SMs in a switch office, PM GRP must have "PMDEF" entered.

For 5E7 and later, the total number of PM forms, which is the sum of the number of PMTHRESH forms and (for 5E9(2) and later) the number of DNUPM forms (5951 Record), must not exceed the MAX NO THR GRPSon the OFCOPT form (5509 Record).

For 5E8 and later, if an ISDNOPT form (5941 Record) is entered indicating ISDN SMs in a switch office, PM GRPs must have "PMDEF", "FACDEF", or "DF2DEF" entered.

2.3 #PM TYPE

Description: Enter the Performance Monitoring Type.

Required Field.

Valid PM TYPE Entries

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DSL	Digital Subscriber Line.
IFAC	Software Release: 5E8 and later IDCU Facility.
DFI2	Software Release: 5E8 and later DFI-2 Facility.

Data Rules:

When PM TYPE is "DSL", only the fields under PERFORMANCE MONITORING (DSL) can be entered.

When PM TYPE is "IFAC", only the fields under PERFORMANCE MONITORING (IFAC) can be entered.

When PM TYPE is "DFI2", only the fields under PERFORMANCE MONITORING (DFI2) can be entered.

2.4 INH PM

The name of this field was changed to DSL INH GRP in 5E8. This field name applies to 5E6 - 5E7. See DSL INH GRP for usage information.

2.5 DSL INH GRP

Description: Is Performance Monitoring inhibited for the DSL group? (This field was called INH PM for 5E6 - 5E7.) If "Y" is entered, all other inhibited entries for DSL on this form will be overridden.

Software Release: 5E8 and later
Valid Entries: Y, N

2.6 REMARKS

Description: Enter any desired remarks up to thirty-two characters in length.
Valid Entries: 1 - 32 characters.

PERFORMANCE MONITORING THRESHOLDS (DSL)

DSL PATH ALERT

The following fields (Section 2.7 - Section 2.12) are used to set DSL Alert threshold values. If values are not entered, switch-owner default or ODA preconstructed values will be defaulted, respectively.

2.7 CUR HR ES

Description: Enter the Alert Threshold for Current Hour Errored Seconds.

This threshold entry represents the number of errored seconds allowed before the current hour alert count is considered to have too many errors.
Valid Entries: 1 - 255

2.8 CUR HR SES

Description: Enter the Alert Threshold for Current Hour Severely Errored Seconds.

This threshold entry represents the number of severely errored seconds allowed before the current hour alert count is considered to have too many errors.
Valid Entries: 1 - 127

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2.9 INH CUR HR

Description: Are performance monitoring current hour reports inhibited for all ANSI U-interface cards associated with this PM group?
Valid Entries: Y, N

2.10 CUR DAY ES

Description: Enter the Alert Threshold for Current Day Errored Seconds.

This threshold entry represents the number of errored seconds allowed before the current day alert count is considered to have too many errors.
Valid Entries: 1 - 4095

2.11 CUR DAY SES

Description: Enter the Alert Threshold for Current Day Severely Errored Seconds.

This threshold entry represents the number of severely errored seconds allowed before the current day alert count is considered to have too many errors.
Valid Entries: 1 - 2047

2.12 INH CUR DAY

Description: Are performance monitoring current day reports inhibited for all ANSI U-interface cards associated with this PM group?
Valid Entries: Y, N

DSL REPORTS

The following fields (Section 2.13 - Section 2.18) are used to set Report threshold values for DSL reports.

2.13 CUR INT ES

Description: Enter the Alert Threshold for Current Interval Errored Seconds.

This threshold entry represents the number of errored seconds allowed before the current interval alert count is considered to have too many errors.
Valid Entries: 1 - 255

2.14 CUR INT SES

Description: Enter the Alert Threshold for Current Hour Severely Errored Seconds.

This threshold entry represents the number of severely errored seconds allowed before the current interval alert count is considered to have too many errors.
Valid Entries: 1 - 127

2.15 INH CUR INT

Description: Are performance monitoring reports for current interval reports inhibited for all ANSI U-interface cards associated with this PM group?

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Valid Entries: Y, N

2.16 CUR DAY ES

Description: Enter the Report Threshold for Current Daily Errored Seconds.

This threshold entry represents the number of errored seconds allowed before the current day alert count is considered to have too many errors.
Valid Entries: 1 - 4095

2.17 CUR DAY SES

Description: Enter the Report Threshold for Current Day Severely Errored Seconds.

This threshold entry represents the number of severely errored seconds allowed before the current day alert count is considered to have too many errors.
Valid Entries: 1 - 2047

2.18 INH CUR DAY

Description: Are performance monitoring current day reports inhibited for all ANSI U-interface cards associated with this PM group?
Valid Entries: Y, N

3. FORM ENTRIES - 5948-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 *PM GRP

Description: Define the performance monitoring group.

PERFORMANCE MONITORING THRESHOLDS (IFAC)

IDCU FACILITY LINE ALERTS

The following fields (Section 3.3 - Section 3.8) are used to set IDCU performance monitoring threshold values for line alerts. If values are not entered, switch-owner default or ODA preconstructed values will be defaulted, respectively.

3.3 CUR INT ES

Description: Enter the alert threshold for the IDCU line Current Interval Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.4 CUR INT SES

Description: Enter the alert threshold for the IDCU line Current Interval Severely Errored Seconds.

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Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.5 INH CUR INT

Description: Is the IDCU line Current Interval alerts Inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When IDCU line INH CUR INT is entered, IDCU path INH CUR INT must be entered and must be identical.

When IDCU line INH CUR INT is not entered, IDCU path INH CUR INT must not be entered.

3.6 CUR DAY ES

Description: Enter the alert threshold for the IDCU line Current Daily Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.7 CUR DAY SES

Description: Enter the alert threshold for the IDCU line Daily Severely Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.8 INH CUR DAY

Description: Is the IFAC line Current Daily alerts inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When IFAC line INH CUR DAY is entered, IFAC path INH CUR DAY must be entered and identical.

When IDCU line INH CUR DAY is not entered, IDCU path INH CUR DAY must not be entered.

IDCU FACILITY PATH ALERTS

The following fields (Section 3.9 - Section 3.20) are used to set IDCU performance monitoring threshold values for path alerts.

3.9 CUR INT ES

Description: Enter the alert threshold for IFAC path Current Interval Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

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3.10 CUR INT SES

Description: Enter the alert threshold for IFAC path Current Interval Severely Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.11 CUR INT FLS

Description: Enter the alert threshold for IFAC path Current Interval Frame Loss Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.12 CUR INT SS

Description: Enter the alert threshold for IFAC path Current Interval Slip Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.13 CUR INT UAS

Description: Enter the alert threshold for IDCU path Current Interval Unavailable Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

3.14 INH CUR INT

Description: Is the alert threshold for the IDCU path Current Interval inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When IFAC path INH CUR INT is entered, IDCU line INH CUR INT must be entered and identical.

When IDCU path INH CUR INT is not entered, IDCU line INH CUR INT must not be entered.

3.15 CUR DAY ES

Description: Enter the IFAC path alert threshold for Current Daily Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.16 CUR DAY SES

Description: Enter the IFAC path alert threshold for Current Daily Severely Errored Seconds.

Software Release: 5E8 and later.

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Valid Entries: 1 - 65535

3.17 CUR DAY FLS

Description: Enter the IFAC path alert threshold for Current Daily Frame Loss Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.18 CUR DAY SS

Description: Enter the IFAC path alert threshold for Current Daily Slip Seconds. A slip is counted whenever one or more slip events occur during a given 10-second interval.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.19 CUR DAY UAS

Description: Enter the IFAC path alert threshold for Current Daily Unavailable Seconds (a failed signal condition).

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

3.20 INH CUR DAY

Description: Is the IFAC path Current Daily alerts inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When IDCU path INH CUR DAY is entered, IDCU line INH CUR DAY must be entered and identical.

When IDCU path INH CUR DAY is not entered, IDCU line INH CUR DAY must not be entered.

4. FORM ENTRIES - 5948-3 RECORD

4.1 BASE AND CONTROL, ESS UNIT

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

4.2 *PM GRP

Description: Define the performance monitoring group.

PERFORMANCE MONITORING THRESHOLDS (DFI-2)

DFI-2 FACILITY LINE ALERTS

The following fields (Section 4.3 - Section 4.6) are used to set DFI-2 performance monitoring threshold values

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for line alerts. If values are not entered, switch-owner default or ODA preconstructed values will be defaulted, respectively.

4.3 CUR INT BPV

Description: Enter the DFI-2 line alert threshold for Interval Bipolar Violation.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.4 INH CUR INT

Description: Is the DFI-2 line alert threshold for Current Daily alerts inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When DFI-2 line INH CUR INT is entered, DFI-2 path INH CUR INT must be entered and identical.

When DFI-2 line INH CUR INT is not entered, DFI-2 path INH CUR INT must not be entered.

4.5 CUR DAY BPV

Description: Enter the DFI-2 line alerts threshold for Current Daily Bipolar Violation.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

4.6 INH CUR DAY

Description: Is the DFI-2 line Current Daily alerts inhibited?

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When DFI-2 line INH CUR DAY is entered, DFI-2 path INH CUR DAY must be entered and identical.

When DFI-2 path INH CUR DAY is not entered, DFI-2 line INH CUR DAY must not be entered.

DFI-2 FACILITY PATH ALERTS

The following fields (Section 4.7 - Section 4.22) are used to set the DFI-2 performance monitoring threshold value for path alerts.

4.7 CUR INT ES

Description: Enter the DFI-2 path alert threshold for Current Interval Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

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4.8 CUR INT BES

Description: Enter the DFI-2 path alert threshold for Bursty Errored Seconds (seconds with at least one but less than 320 CRC-6 errors.)

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.9 CUR INT SES

Description: Enter the DFI-2 path alert threshold for Current Interval Severely Errored Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.10 CUR INT COFA

Description: Enter the DFI-2 path alert threshold for the Current Interval Change of Frame Alignment.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.11 CUR INT SS

Description: Enter the DFI-2 path alert threshold for Current Interval Slip Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.12 CUR INT FS

Description: Enter the DFI-2 path alert threshold for the Current Interval Failed Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 4095

4.13 CUR INT CRC

Description: Enter the DFI-2 path alert threshold for the Current Interval Cyclic Redundancy Code.

Software Release: 5E8 and later
Valid Entries: 1 - 4095

4.14 INH CUR INT

Description: Is the DFI-2 path Current Interval alerts inhibited?

Software Release: 5E8 and later
Valid Entries: Y, N

Data Rules:

When DFI-2 path INH CUR INT is entered, DFI-2 line INH CUR INT must be entered and identical.

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When DFI-2 path INH CUR INT is not entered, DFI-2 line INH CUR INT must not be entered.

4.15 CUR DAY ES

Description: Enter the DFI-2 path alert threshold for Current Daily Errored Seconds.

Software Release: 5E8 and later
Valid Entries: 1 - 65535

4.16 CUR DAY BES

Description: Enter the DFI-2 path alert threshold for Current Daily Bursty Errored Seconds.

Software Release: 5E8 and later
Valid Entries: 1 - 65535

4.17 CUR DAY SES

Description: Enter the DFI-2 path alert threshold for Current Daily Severely Errored Seconds.

Software Release: 5E8 and later
Valid Entries: 1 - 65535

4.18 CUR DAY COFA

Description: Enter the DFI-2 path alert threshold for Current Daily Change of Frame Alignment.

Software Release: 5E8 and later
Valid Entries: 1 - 65535

4.19 CUR DAY SS

Description: Enter the DFI-2 path alert threshold for Current Daily Slip Seconds.

Software Release: 5E8 and later
Valid Entries: 1 - 65535

4.20 CUR DAY FS

Description: Enter the DFI-2 path alert threshold for Current Daily Failed Seconds.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

4.21 CUR DAY CRC

Description: Enter the DFI-2 Path alert threshold for Daily Cyclic Redundancy Code.

Software Release: 5E8 and later.
Valid Entries: 1 - 65535

4.22 INH CUR DAY

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Description: Is the DFI-2 Current Daily Alerts inhibited.

Software Release: 5E8 and later.
Valid Entries: Y, N

Data Rules:

When DFI-2 path INH CUR DAY is entered, DFI-2 line INH CUR DAY must be entered and identical.

When DFI-2 path INH CUR DAY is not entered, DFI-2 line INH CUR DAY must not be entered.

ESS 5948-1(9/92)TG-5 PERFORMANCE MONITORING - THRESHOLD GROUP DATE _____
PMTHRESH 5ESS SWITCH
22.15
BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GRP	PM TYPE	D SL INH GRP	REMARKS	PERFORMANCE MONITORING THRESHOLDS (DSL)											
				DSL PATH ALERT						DSL REPORT					
				CUR HR			CUR DAY			CUR INT			CUR DAY		
				ES	SES	INH	ES	SES	INH	ES	SES	INH	ES	SES	INH
/PMGDEF	DSL	N	PM GENERIC DEFAULTS	040	010	N	0100	0025	N	020	005	N	0050	0015	N
PMDEF	DSL	N	PM OFFICE DEFAULTS	020	005	Y	050	0012	Y	010	002	Y	0025	0007	N

Figure 1 PRECONSTRUCTED/OFFICE DEFAULT PM GROUPS - 5948-1 RECORD 5E6 - 5E7 SOFTWARE RELEASES

ESS 5948-1(9/92)TG-5 PERFORMANCE MONITORING - THRESHOLD GROUP DATE _____
PMTHRESH 5ESS SWITCH
22.15
BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GRP	PM TYPE	D SL	REMARKS	PERFORMANCE MONITORING THRESHOLDS (DSL)											
				DSL PATH ALERT						DSL REPORT					
				CUR HR			CUR DAY			CUR INT			CUR DAY		
				ES		INH	ES		INH		SES	INH		SES	

		I N H G R P														
/PMGDEF	DSL	N	PM GENERIC DEFAULTS	040	010	N	0100	0025	N	020	005	N	0050	0015	N
PMDEF	DSL	N	PM OFFICE DEFAULTS	020	005	N	0050	0013	Y	010	003	Y	0025	0008	N
/FACGDEF	IFAC		IFAC GENERIC DEFAULTS												
FACDEF	IFAC		IFAC OFFICE DEFAULTS												
/DF2GDEF	DFI2		DFI2 GENERIC DEFAULTS												
DF2DEF	DFI2		DFI2 OFFICE DEFAULTS												

Figure 2 PRECONSTRUCTED/OFFICE DEFAULT PM GROUPS - 5948-1 RECORD 5E8 AND LATER SOFTWARE RELEASES

ESS 5948-2(9/92)TG-5 PERFORMANCE MONITORING - THRESHOLD GROUP DATE _____
PMTHRESH 5ESS SWITCH
22.15
BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GRP	PERFORMANCE MONITORING THRESHOLDS (IFAC)																	
	IDCU FACILITY LINE ALERTS						IDCU FACILITY PATH ALERTS											
	CUR INT			CUR DAY			CUR INT						CUR DAY					
	ES	SES	INH	ES	SES	INH	ES	SES	FLS	SS	UAS	INH	ES	SES	FLS	SS	UAS	INH
/FACGDEF	0065	0010	N	648	100	N	0065	0010	0002	0001	0003	N	648	100	17	4	10	N
FACDEF	0020	0050	Y	300	100	N	0040	0005	0002	0004	0006	N	650	100	34	8	20	Y

Figure 3 PRECONSTRUCTED/OFFICE DEFAULT PM GROUPS - 5948-2 RECORD 5E8 AND LATER SOFTWARE RELEASES

ESS 5948-3(9/92)TG-5 PERFORMANCE MONITORING - THRESHOLD GROUP DATE _____
PMTHRESH 5ESS SWITCH
22.15
BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GRP	PERFORMANCE MONITORING THRESHOLDS (DFI2)			
	LINE ALERTS		DFI2 FACILITY PATH ALERTS	
	CUR	CUR	CUR INT	CUR DAY

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	INT		DAY																
	BPV	I N H	BPV	I N H	ES	BES	SES	COFA	SS	FS	CRC	I N H	ES	BES	SES	COFA	SS	FS	CRC	I N H
/DF2GDEF	4095	N	65535	N	0075	0100	0030	0017	0004	0030	4095	N	1706	600	90	511	255	90	65535	N
DF2DEF	2095	Y	32222	Y	0025	0750	0015	0017	0002	0015	2045	Y	1000	300	45	511	255	45	30000	Y

Figure 4 PRECONSTRUCTED/OFFICE DEFAULT PM GROUPS - 5948-3 RECORD 5E8 AND LATER SOFTWARE RELEASES

```
pmthresh                        5ESS Switch                        _
(5948)                  OFFICE DATA ADMINISTRATION
                PERFORMANCE MONITORING - THRESHOLD GROUP

*1. PM GRP  _________            2. INH PM _
 3. REMARKS _____________________________________

        ALERT                              REPORT
        _____________                      _____________
 4. CUR HR ES   ___              10. CUR INT ES  ___
 5. CUR HR SES  ___              11. CUR INT SES ___
 6. INH CUR HR  _                12. INH CUR INT _

 7. CUR DAY ES  _____            13. CUR DAY ES  _____
 8. CUR DAY SES _____            14. CUR DAY SES _____
 9. INH CUR DAY _                15. INH CUR DAY _
```

Figure 5 SAMPLE PMTHRESH FORM 5E6 - 5E7 SOFTWARE RELEASES

```
pmthresh                              5ESS SWITCH
SCREEN 1 OF 3                 OFFICE DATA ADMINISTRATION
(5948-1/3)            PERFORMANCE MONITORING - THRESHOLD GROUP

*1. PM GRP  FACGRP1     #2. PM TYPE IFAC        3. DSL INH GRP
   4. REMARKS 5E8 FEATURE

                        PERFORMANCE MONITORING THRESHOLDS (DSL)
   DSL PATH ALERTS                          DSL REPORTS
 5. CUR HR ES   ___                   11. CUR INT ES  ___
 6. CUR HR SES  ___                   12. CUR INT SES ___
 7. INH CUR HR  _                     13. INH CUR INT _
 8. CUR DAY ES  ___                   14. CUR DAY ES  _____
 9. CUR DAY SES ___                   15. CUR DAY SES _____
10. INH CUR DAY _                     16. INH CUR DAY _
```

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```
pmthresh                          5ESS SWITCH
SCREEN 2 OF 3              OFFICE DATA ADMINISTRATION
(5948-1/3)          PERFORMANCE MONITORING - THRESHOLD GROUP

                       PERFORMANCE MONITORING THRESHOLDS (IFAC)
IDCU FACILITY LINE ALERTS                  IDCU FACILITY PATH ALERTS
 17. CUR INT ES  0065            23. CUR INT ES 0065   29. CUR DAY ES  648
 18. CUR INT SES 0010            24. CUR INT SES 0010  30. CUR DAY SES 100
 19. INH CUR INT N               25. CUR INT FLS 0002  31. CUR DAY FLS 17
 20. CUR DAY ES  648             26. CUR INT SS  0001  32. CUR DAY SS  4
 21. CUR DAY SES 100             27. CUR INT UAS 0003  33. CUR DAY UAS 10
 22. INH CUR DAY N               28. INH CUR INT N     34. INH CUR DAY N
```

```
pmthresh                          5ESS SWITCH             _
SCREEN 3 OF 3              OFFICE DATA ADMINISTRATION
(5948-1/3)          PERFORMANCE MONITORING - THRESHOLD GROUP

                       PERFORMANCE MONITORING THRESHOLDS (DFI-2)
DFI-2 FACILITY LINE ALERTS                 DFI-2 FACILITY PATH ALERTS
 35. CUR INT BPV  _____          39. CUR INT ES    _____  47. CUR DAY ES   _____
 36. INH CUR INT  _              40. CUR INT BES   _____  48. CUR DAY BES  _____
 37. CUR DAY BPV  _____          41. CUR INT SES   _____  49. CUR DAY SES  _____
 38. INH CUR DAY  _              42. CUR INT COFA  _____  50. CUR DAY COFA _____
                                 43. CUR INT SS    _____  51. CUR DAY SS   _____
                                 44. CUR INT FS    _____  52. CUR DAY FS   _____
                                 45. CUR INT CRC   _____  53. CUR DAY CRC  _____
                                 46. INH CUR INT   _      54. INH CUR DAY  _
```

Figure 6 SAMPLE PMTHRESH FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 5K: 5950 RECORD
REMOTE BUSY VERIFY ROUTING FORM - RBVRTI

1. GENERAL

The 5950 Record is available with 5E8 and later Software Releases, and is used to specify routing parameters for RBV (Remote Busy Verify). RBV provides the ISAT (ISDN Attendant) on a 5ESS Switch the ability to busy verify any analog or ISDN line on a remote 5ESS Switch using a dedicated network of ISAT BVTs (Busy Verify Trunks). Lines on the remote 5ESS Switch are busy verifiable only if associated with an incoming ISAT BVT. For how various types of TNs are associated, see Division 2, Section 1T.

1.1 Expanded Definition

ISAT RBV is similar to ISAT Busy Verification of DNs introduced in the 5E4(2) Software Release, with the added capability allowing busy verification of DNs on a remote 5ESS Switch. The following scenario occurs:

1. When the ISAT verifies a DN on a remote 5ESS Switch, the originating 5ESS Switch routes the call to an ISAT BVT. The translated digits of the DN to be busy verified are outpulsed over the outgoing ISAT BVT to the remote 5ESS Switch.

2. The terminating 5ESS Switch checks that the DN is valid and is remote busy verifiable.

3. If the DN is busy and verifiable, the incoming call from the ISAT across the ISAT BVT is bridged onto the active call. The bridging capability is possible only if the busy verifiable DN has a busy verify terminating feature assigned. (where verification barge-in cannot occur, tones are returned from the far 5ESS Switch: high tone for OOS, reorder tone for all else.)

4. If the DN is idle and verifiable, the call alerts as a normal incoming call and the ISAT hears audible alerting.

5. If the called party answers, the ISAT and the called party can converse.

In both the barge-in and idle case, all parties hear a 300 msec, 440 Hz tone from the ISAT's 5ESS Switch every 6 seconds while the ISAT is connected. After 30 seconds, the ISAT is automatically disconnected by the ISAT's 5ESS Switch. During the busy verification call, the ISAT display indicates Remote Busy Verify. This limited display capability is due to the remote 5ESS Switch's inability to provide information over an ISAT BVT to fully populate the DN status display.

DNs may be associated with an ISAT BVT group (via an RBV TGN) or an Attendant Multi-Line Hunt Group (via an ATT MLHG), but not both. Also, ISAT BVTs cannot be of the CCS6 (Common Channel Signaling System 6) or SS7 (Signaling System 7) type.

1.2 Differences Between Remote and Local Busy Verify

Note that operation of the Local Busy Verify feature is not changing. All aspects, except the administration of the types of tones, of the Local Busy Verify feature mentioned in this section describe the existing operation of the feature. Local Busy Verify, in order to be compatible with Remote Busy Verify, changes in terms of what kind of tone is administered for certain failure cases. Upon implementation of RBV, reorder tone is applied for all failure cases when barge-in is not allowed due to the state of the line (Note: An OOS line still is administered high tone.). Reorder tone is applied for the Local Busy Verify case where the DN is not associated with an ISAT group.

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The purpose of this section is to identify the differences between operation of the Busy Verify feature whether it is applied to a DN on the attendant's switch, or on a remote switch. The differences are listed below:

- For an ISDN attendant to do busy verification on a remote switch, the DN on the remote switch must be associated with an ISAT BVT. For the Local Busy Verify case, the DN to be busy verified must be associated with the ISAT.
- When busy verifying a DN on a remote switch, the ISAT's display indicates Remote Busy Verify. For a DN on the attendant's switch, the display shows a special Busy Verify display which indicates the status of the DN.
- In the case where the DN being busy verified is idle, the attendant may converse with the party as long as desired with no tones being given if the DN is local to the attendant's switch. However, if the DN is remote, the attendant may only be connected for 30 seconds, and barge-in tones are given to all parties every 6 seconds while they are conversing.
- Using FORCED RELEASE during the busy verification of a local DN forcibly disconnects all parties during a barge-in. For a remote DN, FORCED RELEASE simply drops the attendant from the call.

1.3 Recent Change View

The corresponding Recent Change View for this form is 4.63.

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 * ISAT MLHG

Description: Enter the ISAT Attendant MLHG on this switch that can busy verify TNs in a remote switch.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: 1 - 8191

Data Rules:

The ISAT MLHG entered must equal MLHG on an MLHG form (5110 Record), and MLHG FEATURE on that MLHG form must equal FEATURE NAME on a corresponding MLHGFD form (5604 Record), with that MLHGFD form having a HUNT TYPE of "ISAT".

2.3 * RTI

Description: Enter the route index which normally routes a call to the switch for non-data calls.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E13 and earlier: 1 - 4095
For 5E14 and later: 1 - 16382

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Data Rules:

The values entered for RTI and REMOTE RTI cannot be the same.

The RTI entered must equal ROUTE INDEX on the RTIDX form (5303 Record), and TRUNK GROUP NUMBER on that RTIDX form must equal TGN on the TKGRP form (5202 Record).

2.4 # REMOTE RTI

Description: Enter the route index used to route across an ISAT BVT to busy verify a TN on a remote switch.

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 values entered for RTI and REMOTE RTI cannot be the same.

The REMOTE RTI entered must equal ROUTE INDEX on the RTIDX form, and TRUNK GROUP NUMBER on the RTIDX form must equal TGN on the TKGRP form. Also, on the TKGRP form, TRK DIR must be "OUT", TRKCLS must be "ATNDVFY", and ISAT MLHG must equal the ISAT MLHG on the RBVRTI form.

2.5 RTI TGN

Description: This is a Recent Change field only.

2.6 REMOTE RTI TGN

Description: This is a Recent Change field only.

```
rbvrti                          5ESS Switch              _
                           OFFICE DATA ADMINISTRATION
(5950)                     REMOTE BUSY VERIFY ROUTING

*1. ISAT MLHG  0711
*2. RTI        2211          RTI TGN
#3. REMOTE RTI 2689          REMOTE RTI TGN
```

Figure 1 SAMPLE RBVRTI FORM 5E8 AND LATER SOFTWARE RELEASES

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SEC. 5L: 5951-1/2 RECORD
DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM-2000) - DNUPM

1. GENERAL

The 5951 Record is available with 5E9(2) and later Software Releases. It is used to define the performance monitoring thresholds on a DS1 (Digital Signal Level 1), VT (Virtual Tributary), and STSX-1 (Synchronous Transport Signal DNU-S interface) for the DNU-S (Digital Networking Unit - SONET). For more information on DNU-S, see Division 2, Section 9C.

The SONET digital switch interface terminates the STSX-1 interface for the intraoffice environment. It is a 51.84 Mb/s electrical interface and it is limited to a maximum of 900 feet. DNU-S only supports digital trunks.

The STSX-1 interface is made up of the following layers:

- STE (SONET Termination Equipment)
  - — Section
  - — Line
- STS-1 Path
- VT1.5 Path (Virtual Tributary)
- DS1 Path

The Section and Line layers have been combined and are referred to as the STE (SONET Termination Equipment). The STE, as well as the STS-1, VT1.5, and DS1 can each be considered a separate "facility". The STE, VT, and DS1 facilities can have failures (and thus alarms) associated with them, each can have performance monitoring, and each can be removed from service. Therefore, the STSX-1 interface is operated, administered, provisioned, and maintained based on these subtending facilities. Each of these facilities are defined as follows:

- **STE**

  The STE represents the termination of the Section and Line on the DNU-S. The STSX-1 interface carries a single STS-1.

- **STS-1**

  The STS-1 represents the termination of the STS-1 path on the DNU-S. The STS-1 carries up to 28 VT1.5 tributaries.

- **VT1.5**

  The VT1.5, a 1.728 Mb/s facility, carries one DS1. The VT1.5 tributaries consist of asynchronous mapped DS1s in a floating mode of operation.

- **DS1**

  The DS1 facility is similar to existing DS1 (Digital Signal Level 1) facilities. It is a 1.544 Mb/s facility which

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carries up to 24 DS0s (64 kb/s).

1.1 Performance Monitoring Threshold Group

The DS1S (Digital Signal Level 1 SONET), VT1, and STE facilities may be monitored. The DNU-S Performance Monitoring Threshold Group allows a user to review, insert, update, and delete performance monitoring groups on a DNU-S for these facilities.

Two types of default PM (Performance Monitoring) groups contain the default data for the PM Group. The Generic default PM group contains the default data for the switch, and it cannot be changed. It is for review only. The PM Group name begins with a "/" for Generic default data. The Office default PM Group can be updated or reviewed, but it cannot be deleted. (See PM GROUP field for an explanation of the Office default PM group versus the Generic default PM group.)

In addition to the default PM Group data, data can be defined for customized PM Groups. In defining a customized PM Group, the fields that are not entered are automatically populated from the Office Default PM Group data. If the field is not defined in the Office Default PM Group (e.g. were nulled out) then the corresponding value from the Generic PM Group will be used.

1.2 Recent Change View

The corresponding Recent Change View for this form is 20.25.

2. FORM ENTRIES - 5951-1 RECORD

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 Performance Monitoring Group name defines the group for the error thresholds that will be inherited by every facility assigned to this group. Users may set their own performance monitoring office defaults by customizing the office default PM (Performance Monitoring) groups: DS1SDEF, STEDEF, and VT1DEF.

There are two pre-defined performance monitoring groups each for DS1, VT1, and STE. PM GROUPs beginning with a "/" are Generic default groups. The Generic default groups may not be assigned to a facility, nor may they be updated or deleted. PM GROUPs that do not begin with a "/" are Office default groups. These may be assigned and/or updated, but may not be deleted. In addition, customized PM GROUPs can be created.

The following Generic default PM GROUPs designated as
- /STEGDEF - STE Generic Default
- /VT1GDEF - VT Generic Default
- /DS1SGDF - DS1S Generic Default

are for review only and cannot be updated or deleted.

The fields in the following Office default PM GROUPs designated as
- STEDEF - STE Office Default

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- VT1DEF - VT Office Default
- DS1SDEF - DS1S PM Office Default

are for review and can be updated. The form/record cannot be deleted. (See Figure 1 and Figure 2 for the default data for PM groups.)

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

For every office, DNUPM forms must be defined with a PM GROUP of "/DS1SGDF", "DS1SDEF", "/STEGDEF", "STEDEF", "/VT1GDEF" and "VT1DEF".

PM GROUP entries on the DNUPM form must not be duplicated with PM GRP entries on the PMTHRESH form.

No more than 50 unique PM GROUP names are allowed per SM from the combination of PM GROUP(S) defined on EQSTE form(s) (5857 Record) as STE PM GROUP, and defined on EQVT form(s) (5858 Record) as VT PM GROUP and DS1S PM GROUP.

The "Total Number of PM forms" (the sum of the number of PMTHRESH forms and the number of DNUPM forms) must NOT exceed the entry in the MAX NO THR GRPS field on the OFCOPT form (5509 Record).

2.3 # PM TYPE

Description: The Performance Monitoring Group Type indicates the type of equipment to monitor.

Required Field.

Valid PM TYPE Entries

Entry	Definition
DS1S	Digital Signal Level 1 SONET facility
VT1	Virtual Tributary 1.5 facility
STE	SONET Termination Equipment facility (Section and Line)

Data Rules:

DS1S
If "DS1S" is entered, then only the fields on this form for DS1S can be entered.

The DS1S PM GROUP defined on an EQVT form must have a corresponding DNUPM form with a PM TYPE of "DS1S". The forms correspond if the DS1S PM GROUP entry on the EQVT form is the same as the PM GROUP entry on this form.

STE
If "STE" is entered, then only the fields on this form for the STE can be entered.

The STE PM GROUP defined on an EQSTE form must have a corresponding DNUPM form with a PM TYPE of "STE". The forms correspond if the STE PM GROUP entry on the EQSTE form is the same as the PM GROUP entry on this form.

VT1

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If "VT1" is entered, then only the fields on this form for the VT can be entered.

The VT PM GROUP defined on an EQVT form msut have a corresponding DNUPM form with PM TYPE of "VT1". The forms correspond if the VT PM GROUP entry on the EQVT form is the same as the PM GROUP entry on this form.

2.4 REMARKS

Description: Enter any remark for the Performance Monitoring group. This remark is associated with the data used for defining performance monitoring groups.
Valid Entries: 1 - 32 characters.

STE SECTION ALERTS (SSA)

The following fields (Section 2.5 - Section 2.6) define the thresholds for STE Section.

2.5 CUR INT SEFS

Description: Enter the threshold for DNU-S STE section alerts for severely-errored frame seconds in the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

2.6 CUR DAY SEFS

Description: Enter the threshold for DNU-S STE section alerts for severely-errored frame seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

STE LINE ALERTS (SLA)

The following fields (Section 2.7 - Section 2.10) define the thresholds for STE Line.

2.7 CUR INT ES

Description: Enter the STE Line alert threshold for errored seconds in the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

2.8 CUR INT SES

Description: Enter the threshold for DNU-S STE line alerts for severely-errored seconds in the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

2.9 CUR DAY ES

Description: Enter STE Line alert threshold for errored seconds in the current day.
Valid Entries: 1 - 21600 (seconds)

2.10 CUR DAY SES

Description: Enter the threshold for DNU STE line alerts for severely-errored seconds in the current day.
Valid Entries: 1 - 21600 (seconds)

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2.11 STE INH CUR DAY

Description: Should the performance monitoring alerts for the DNU-S STE Line and Section for the current day be inhibited?
Valid Entries: Y, N

2.12 STE INH CUR INT

Description: Should the performance monitoring alerts for DNU-S STE Line and Section for the current 15 minute interval be inhibited?
Valid Entries: Y, N

3. FORM ENTRIES - 5951-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

VT PATH ALERTS (VT)

The following fields (Section 3.2 - Section 3.9) define the thresholds for the near-end of the VT1.5 and the far-end of the VT1.5 facility.

3.2 CUR INT ES

Description: Enter the VT path alert threshold for errored seconds in the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.3 CUR INT SES

Description: Enter the VT path alert threshold for the DNU-S virtual tributary path alerts for severely-errored seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.4 CUR INT UAS

Description: Enter the VT path alert threshold for DNU-S virtual tributary path alerts for unavailable seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.5 INH CUR INT

Description: Should performance monitoring alerts for the DNU-S virtual tributary path for the current 15 minute interval (for both the near-end and the far-end) be inhibited?
Valid Entries: Y, N

3.6 CUR DAY ES

Description: Enter the VT path alert threshold for DNU-S virtual tributary path alerts for errored seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

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3.7 CUR DAY SES

Description: Enter the VT path alert threshold for virtual tributary path alerts for severely errored seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.8 CUR DAY UAS

Description: Enter the VT path alert threshold for DNU-S virtual tributary path alerts for unavailable seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.9 INH CUR DAY

Description: Should the performance monitoring alerts be inhibited for the DNU-S virtual tributary path (near-end and far-end) for the current day?
Valid Entries: Y, N

DS1S PATH ALERTS (D)

The following fields (Section 3.10 - Section 3.21) define the thresholds for the DS1S (Digital Signal Level 1 SONET).

3.10 CUR INT ES

Description: Enter the threshold for DNU-S DS1S facility path alerts for errored seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.11 CUR INT SES

Description: Enter the threshold for DNU-S DS1S facility path alerts for severely-errored seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.12 CUR INT SEFS

Description: Enter the threshold for DNU-S DS1S facility path alerts for severely-errored frame seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.13 CUR INT CSS

Description: Enter the threshold for DNU-S DS1S facility path alerts for controlled-slip seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

3.14 CUR INT UAS

Description: Enter the threshold for DNU-S DS1S facility path alerts for unavailable seconds for the current 15 minute interval.
Valid Entries: 1 - 225 (seconds)

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3.15 INH CUR INT

Description: Should the performance monitoring alerts for DS1S path for the current 15 minute interval be inhibited?
Valid Entries: Y, N

3.16 CUR DAY ES

Description: Enter the threshold for DNU-S DS1S facility path alerts for errored seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.17 CUR DAY SES

Description: Enter the threshold for DS1S facility path alerts for severely-errored seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.18 CUR DAY SEFS

Description: Enter the threshold for DS1S facility path alerts for severely errored frame seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.19 CUR DAY CSS

Description: Enter the threshold for DNU-S DS1S facility path alerts for controlled slip-seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.20 CUR DAY UAS

Description: Enter the threshold for DNU-S DS1S facility path alerts for unavailable seconds for the current day.
Valid Entries: 1 - 21600 (seconds)

3.21 INH CUR DAY

Description: Should the performance monitoring alerts for DS1S path alerts for the current day be inhibited?
Valid Entries: Y, N

ESS 5951-1(10/94)TG-5 DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM-2000) RECORD 5ESS SWITCH DATE _____

DNUPM
20.25
BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GROUP	PM TYPE	REMARKS	STE SECTION ALERTS (SSA)		STE LINE ALERTS (SLA)				ST E I N H C U	STE INH CUR INT
			CUR IN	CUR DAY SEFS	CUR IN	CUR IN	CUR DAY ES	CUR DAY SES		

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			TSEFS		TES	TSES			RDAY	
/DS1SGDF	DS1S	DS1S GENERIC DEFAULTS		00017	065	010	00648	00100	N	N
/STEGDEF	STE	STE GENERIC DEFAULTS	002							
/VT1GDEF	VT1	VT1 GENERIC DEFAULTS								
DS1SDEF	DS1s	DS1S OFFICE DEFAULTS								
STEDEF	STE	STE OFFICE DEFAULTS	002	00017	065	010	00648	00100	N	N
VT1DEF	VT1	VT1 OFFICE DEFAULTS								

Figure 1 DEFAULT DATA FOR 5951-1 RECORD

ESS 5951-2(10/94)TG-5 DNUS PERFORMANCE MONITORING - DATE _____

THRESHOLD GROUP (SM-2000) TABLE

DNUPM 5ESS SWITCH

20.25

BASE_____CONT GR____ 5ESS UNIT _____ PAGE_____

PM GROUP	VT PATH ALERTS (VT)								DS1S PATH ALERTS (D)											
	CURINTES	CURINTSES	CURINTUAS	INHCURINT	CURDAYES	CURDAYSES	CURDAYUAS	INHCURDAY	CURINTES	CURINTSES	CURINTSES	CURINTSESFS	CURINTUAS	INHCURINT	CURDAYES	CURDAYSES	CURDAYSESFS	CURDAYCSS	CURDAYUAS	INHCURDAY
/DS1SGDF									065	010	002	001	010	N	00648	00100	00017	00004	00010	N
/STEGDEF																				
/VT1GDEF	065	010	010	N	00648	00100	00010	N												
DS1SDEF									065	010	002	001	010	N	00648	00100	00017	00004	00010	N
STEDEF																				
VT1DEF	065	010	010	N	00648	00100	00010	N												

Figure 2 DEFAULT DATA FOR 5951-2 RECORD

```
dnupm                                5ESS SWITCH
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5951-1/2)  DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)
```

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```
*1. PM GROUP _________
#2. PM TYPE  _____
 3. REMARKS  ________________________________

STE SECTION ALERTS (SSA)      STE LINE ALERTS (SLA)
 4. CUR INT SEFS ___           6. CUR INT ES  ___      10. STE INH CUR DAY _
 5. CUR DAY SEFS _____         7. CUR INT SES ___      11. STE INH CUR INT _
                               8. CUR DAY ES  _____
                               9. CUR DAY SES _____
```

```
dnupm                              5ESS SWITCH              _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5951-1/2)  DNUS PERFORMANCE MONITORING - THRESHOLD GROUP (SM2000)

  VT PATH ALERTS (VT)                    DS1S PATH ALERTS (D)
 12. CUR INT ES  ___         20. CUR INT ES   ___     26. CUR DAY ES   _____
 13. CUR INT SES ___         21. CUR INT SES  ___     27. CUR DAY SES  _____
 14. CUR INT UAS ___         22. CUR INT SEFS ___     28. CUR DAY SEFS _____
 15. INH CUR INT _           23. CUR INT CSS  ___     29. CUR DAY CSS  _____
 16. CUR DAY ES  _____       24. CUR INT UAS  ___     30. CUR DAY UAS  _____
 17. CUR DAY SES _____       25. INH CUR INT  _       31. INH CUR DAY  _
 18. CUR DAY UAS _____
 19. INH CUR DAY _
```

Figure 3 SAMPLE DNUPM FORM 5E9(2) AND LATER SOFTWARE RELEASES

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SEC. 5M: 5952 RECORD
ISLU2 LINE BOARD FORM - ISLULB

1. GENERAL

The 5952 Integrated Services Line Unit 2 Line Board Record is available with the 5E10 and later Software Releases. It is used to define the Line Boards equipped in an ISLU-2.

1.1 Recent Change View

The corresponding Recent Change View for this form is 22.21.

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 * SM

Description: Enter the Switching Module number.

Required Field.
Valid Entries: 1 - 192

2.3 *ISLU

Description: Enter the Integrated Services Line Unit Number.

Required Field.
Valid Entries: Enter 0 - 7 for an ISLU2 on an SM or 0 - 42 for an ISLU2 on an SM2000.

Data Rules:

An ISLU unit number entered on the ISLULB form must be defined on an EQISLU form with a UNIT TYPE of "ISLU2".

2.4 * LG

Description: Enter the ISLU2 Line Group.

Required Field.
Valid Entries: 0 - 15

LINE BOARDS

Up to eight Line Boards can be equipped on each Line Group. Each Line Board has eight circuits. For each Line Board entered, the TYPE, EQST, CLI and SPARE CKT fields must be entered. At least one Line Board must be specified.

When an ISLU2 is mounted at EQUIPMENT VERTICAL "41" or when two ISLU2s are mounted in the same SWITCHING MODULE and EQUIPMENT BAY, a secondary LIBD cannot be assigned to the unit(s). Therefore ISLU2 LINE Boards 4-7 cannot be assigned on any of the ISLULB forms associated with the

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unit(s).

For each POS (Position) in which a line card is equipped, enter the following fields.

2.5 TYPE

Description: Enter the Line Card type.

Valid TYPE Entries

Entry	Definition	J-Drawing/List
ULBD	5E10 MPU1B ISLU-2 U line board	J5D004AL-1, L60-A CLI: 20000
	5E10 MPU2 ISLU-2 U line board	J5D004AL-1, L61 CLI: 40000
TLBD	5E10 MPT1 ISLU-2 T line board	J5D004AL-1, L80 CLI: 80000
WLBD	ISLU-2 W line board	Not determined. CLI: 0

Data Rules:

When TYPE is "TLBD" or "WLBD", SPARE CKT must be "N".

For RDTAPORT forms that are defined with RDTA OE TYPE set to "K", the RDTA OE NUMBER must be defined on a ISLULB form as SM or ISLU or LG or LB with TYPE set to "TLBD" or "ULBD" and EQST set to "O". (Note: RDTA OE is aaabbccd—, where aaa is SM, bb is ISLU, cc is LG and d is LB POS)

An OE defined on the DSLAP form with OE type of "K" and/or DSL OE defined on the DSL form with a DSL OE type of "K" must be defined as an equipped and operational U or T Board on the ISLULB input form.

When the ISLULB form has an SM/ISLU/LG/LBD combination value that matches a DSL form DSL OE field, where OE TYPE is set to "K", and the DSL CLS field is set to "STD", the ISLULB form, TYPE field indicated by the POS field matched, must be "ULBD" or "TLBD".

2.6 EQST

Description: Enter the Equipment Status of the Line Board.

Valid EQST Entries

Entry	Definition
G	Growth Status.
O	Operational Status.
U	Unequipped Status.

Data Rules:

Only "O", status is allowed in new offices and equipment additions.

For Preliminary Retrofit or Retrofit Processing, equipment can not be marked as "G".

ISLULB forms that have at least one LINE BOARD list element entry with an EQST of "O" or "G", the corresponding EQISLU form must have COMMON DATA EQST equal to "O".

2.7 CLI

Description: Enter the Change Level Indicator of the Line Board. For a complete listing of valid CLI values,

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J-Drawing and list combinations, see Division 8, Section 1.
Valid Entries: 0 - 7fffffff (hexadecimal)

2.8 SPARE CKT

Description: Is a spare line circuit available on this line board. Enter "Y" or "N". "Y" can only be used in POS 0 on LG 0, 8 or in POS 3 on LG 7, 15.
Valid Entries: Y - N

Data Rules:

For 5E10 and later, when SPARE CKT equals "Y" on a line board on the ISLULB forms, circuit 0 associated with the board cannot be used for DSL assignments.

```
SCREEN 1 of 2                    5ESS Switch
islulb                  OFFICE DATA ADMINISTRATION
(5952)                       ISLU2 LINE BOARD

*1. SM   ___
*2. ISLU __
*3. LG   __
```

```
SCREEN 2 of 2                    5ESS Switch
islulb                  OFFICE DATA ADMINISTRATION
(5952)                       ISLU2 LINE BOARD

  4. LINE BOARDS
                TYPE  EQST   CLI       SPARE CKT
     1) POS 0  _____   _   _________       _
     2) POS 1  _____   _   _________       _
     3) POS 2  _____   _   _________       _
     4) POS 3  _____   _   _________       _
     5) POS 4  _____   _   _________       _
     6) POS 5  _____   _   _________       _
     7) POS 6  _____   _   _________       _
     8) POS 7  _____   _   _________       _
```

Figure 1 SAMPLE ISLULB FORM 5E10 AND LATER SOFTWARE RELEASES

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SEC. 5N: 5957 RECORD
REMOTE PERIPHERAL SITE MISCELLANEOUS ALARMS - RPMA

1. GENERAL

The 5957 Record is available with 5E12 and later Software Releases. It is used to define information about RPMA (Remote Peripheral Miscellaneous Alarm) scan points. This form was implemented with the Remote AIU (Access Interface Unit) feature (99-5E-3506). See Division 2, Section 9O.

1.1 Recent Change View

The corresponding Recent Change View for this form is 22.24.

2. FORM AND RECORD ENTRIES

3. BASE AND CONTROL, ESS UNIT

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

3.1 *SM

Description: Enter the Switch Module identification number.

3.2 *RP NO

Description: Enter the Remote Peripheral Number.

Required Field.
Valid Entries: 1 - 127

3.3 *RP TYPE

Description: Enter the Remote Peripheral Number.

Required Field.

Valid RP TYPE Entries

Entry	Description
EAIU	Remote AIU.
RISLU	Remote ISLU (ISDN Line Unit).

Data Rules:

When "EAIU" is entered, the corresponding SM/AIU/AIU TYPE must exist on the EQAIU form.

3.4 *POINT NBR

Description: Enter the Point Number.

Required Field.
Valid Entries: 1 - 5

3.5 IN USE

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Description: Is the Scan Point operational?

Required Field.

Default: Y
Valid Entries: Y, N

3.6 #NORMAL STATE

Description: Enter the state of the alarm point.

Required Field.

Valid NORMAL STATE Entries

Entry	Description
OPEN	Activated.
CLOSED	Not Activated.

3.7 MCC NAME

Description: Enter the alarm name to be displayed on the MCC (Master Control Center).
Valid Entries:

Blank, or up to 8 characters (backslash and quotes not allowed)

3.8 TTY NAME

Description: Enter the alarm name to be displayed on the TTY (Teletypewriter).
Valid Entries:

Blank, or up to 20 characters (quotes not allowed)

3.9 ALARM LEVEL

Description: Enter the Alarm Level.

Required Field.

Default: MIN

Valid ALARM LEVEL Entries

Entry	Description
CRIT	Critical.
MAJ	Major.
MIN	Minimum.

```
rpma                              5ESS Switch           _
                             OFFICE DATA ADMINISTRATION
(5957)              REMOTE PERIPHERAL SITE MISCELLANEOUS ALARMS

*1. SM            ___
```

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```
*2. RP NO         ___
*3. RP TYPE       ________
*4. POINT NBR     _
 5. IN USE        Y
#6. NORMAL STATE  _______
 7. MCC NAME      _________
 8. TTY NAME      ________________________
 9. ALARM LEVEL   MIN
```

Figure 1 SAMPLE RMPA FORM 5E12 AND LATER SOFTWARE RELEASES

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SEC. 5O: 5990 RECORD
PSU PIPE - PSUPIPE

1. GENERAL

The PSU (Packet Switching Unit) Pipe form (5990 Record) is available with the 5E16(2) FR 1 and later Software Releases. It is used to define a PSU Pipe consisting of a T1 or E1 facility terminating on a PH (Protocol Handler). This form supports the SAAL (Signaling ATM (Asynchronous Transfer Mode) Adaptation Layer) SS7 (Signaling System 7) High Speed Signaling Links feature (99-5E-7451). For more information on this feature, see Division 2, Section 4A670.

1.1 Recent Change View

The corresponding Recent Change View for this form is 22.25.

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 * SM

Description: The SM (Switching Module) field is used to specify a SM number associated with the PSU (Packet Switching Unit).

Software Release: 5E16(2) and later
Valid Entries: 1 - 192

Data Rules:

For each PSUPIPE form, there must exist a matching PSUGP form (5949 Record) with the PH TYPE for the CHANNEL GROUPS set to "PH31".

2.3 * PSU PIPE

Description: This field is used to identify which PSU PIPE is used for the SAAL.

Required Field.

Software Release: 5E16(2) and later
Valid Entries: Enter up to 8 alphanumeric characters.

2.4 PSU

Description: This field is used to identify the PSU number.

Software Release: 5E16(2) and later
Valid Entries: 0

2.5 # SHELF

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Description: This field is used to indicate the PSU shelf that the PH (Protocol Handler) is equipped with.

Software Release: 5E16(2) and later
Valid Entries: 0 - 4

2.6 # CHAN GROUP

Description: This field is used to specify the logical shelf position of the PH.

Software Release: 5E16(2) and later
Valid Entries: 0 - 15

2.7 CH GRP MEMBER

Description: This field is used to specify the channel group member.

Software Release: 5E16(2) and later
Valid Entries: 0

2.8 # OE

Description: This field is used to specify the equipment type.

Software Release: 5E16(2) and later
Valid Entries:

Valid OE Entries

Entry	Definition
D	NEN (Networking Equipment Number)
N	DEN (Digital Equipment Numbers)

OE TYPE D

Entry	Definition
SM	[001-192]
DLTU	[000-011]
DFI	[01-10]
DBCHAN	[01-48]

OE TYPE N

Entry	Definition
SM	[001-192]
DNUS	[0-7]
DG	[0-1]
STE	[1-6]
STS	[1]
VTG	[1-7]
VTM	[1-4]
DS0	[01-24]

Data Rules:

When OE is "D":

the DBCHAN part of the OEN must be "01" or "25".

there must be a matching EQDUP form (5730 Record). If the EQDUP form exists, then DFI USAGE must be "TRUNK", "APPL" must be unknown, and DFI MODE must be "FE8Z" on this EQDUP form.

NOTE: An associated EQDUP form is found by matching the first 8 digits of the DEN on the

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PSUPIPE form with the concatenated value of SM, DLTU and DFI PACK NBR on the EQDUP form. Also, use FAC 0 on the EQDUP form if the last 2 digits of DEN on the PSUPIPE form is "01"', else use FAC 1 if the last 2 digits of DEN on the PSUPIPE form is "25".

When OE is "N":

the ds0 part of the OEN must be "01".

there must be a matching EQVT form (5858 Record). If the EQVT form exists, then APPLICATION TYPE must be "TRUNK", FRAME must be "ESF", and ZCS must be "N" on the EQVT form.

The NENs (Networking Equipment Numbers) must be uniquely assigned on the EQVT form.

The DENs (Digital Equipment Numbers) must be uniquely assigned on the EQVT form.

2.9 MAC LAYER

Description: This field is the Media Access Control Layer of a PSU PIPE.

Software Release: 5E16(2) and later
Valid Entries: ATM

Data Rules:

MAC LAYER must be "ATM".

2.10 APPL LAYER

Description: This field indicates the application type residing on the PSU PIPE. This is a display only field.

Software Release: 5E16(2) and later

ATM LAYER

The following fields (Section 2.11 - Section 2.21) are display only fields used as virtual path indicators.

2.11 MAC VPCS

Description: This field is used to display the maximum number of Virtual Path connections.

Software Release: 5E16(2) and later

2.12 MAX VCCS

Description: This field is used to display the maximum number of Virtual Channel connections.

Software Release: 5E16(2) and later

2.13 VPI BITS

Description: This field is used to display the number of VPI (Virtual Path Indicator) bits allocated for storing the Virtual Path Indicator.

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Software Release: 5E16(2) and later

2.14 VCI BITS

Description: This field is used to indicate the number of VCI (Virtual Circuit Indicator) bits allocated for storing the Virtual Path Indicator.

Software Release: 5E16(2) and later

2.15 VPI

Description: This field is used to display the ATM (Asynchronous Transfer Mode) VPI.

Software Release: 5E16(2) and later

2.16 VCI

Description: This field is used to display the ATM VCI.

Software Release: 5E16(2) and later

2.17 PCPS

Description: This field is used to display the bandwidth of a point-to-point connection divided by 53 bytes per ATM cell for a T1 ATM PSU PIPE supporting SAAL (Signaling Link ATM Adaptation Layer) High Speed Links.

Software Release: 5E16(2) and later

2.18 SCPS

Description: This field is used to indicate the bandwidth of a point-to-point connection divided by 53 bytes per ATM cell for a T1 ATM PSU PIPE supporting SAAL High Speed Links.

Software Release: 5E16(2) and later

2.19 BT

Description: This field is used to indicate the maximum number of consecutive calls permitted onto the ATM interface.

Software Release: 5E16(2) and later

2.20 CDVT

Description: This field is used to indicate the Cell Delay Variation Tolerance for a point-to-point T1 ATM PSU Pipe supporting SAAL High Speed Links.

Software Release: 5E16(2) and later

2.21 QOSC

Description: This field indicates the Quality of Service Class for an ATM PSU Pipe supporting SAAL High Speed Links.

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Software Release: 5E16(2) and later

```
psupipe                          5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5990)                             PSU PIPE

*1. SM              ___                ATM LAYER
*2. PSU PIPE        _________        MAX VPCS 0
 3. PSU             0                MAX VCCS 1
#4. SHELF           _                VPI BITS 1
#5. CHAN GROUP      __               VCI BITS 3
 6. CH GRP MEMBER   0                VPI      0
#7. OE              _ ____________   VCI      5
                                     PCPS     3622
10. MAC LAYER  ATM                   SCPS     3622
    APPL LAYER _______               BT       210
                                     CDVT     100
                                     QOSC     3
```

Figure 1 SAMPLE PSUPIPE FORM 5E16(2) AND LATER SOFTWARE RELEASES

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SEC. 5P: 5592 RECORD
ATM LINK ASSIGNMENT - ATMLNK

1. GENERAL

The ATM (Asynchronous Transfer Mode) Link Assignment form is available with the 5E17(1) FR 1 and later Software Releases. It allows a user to define and specify parameters for an ATM link. For duplex operations, two channels (CHAN 1 and CHAN 0) are provisioned, each terminating on a PHA2 (Protocol Handler for Asynchronous Transfer Mode). For simplex operations, a single channel (CHAN 1) is provisioned. This form supports the PHA2 (Protocol Handler for ATM PSU to PSU Connectivity) feature. For more information on this feature, see Division 2, Section 7BY.

1.1 Recent Change View

The corresponding Recent Change View for this form is 22.27.

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: The SM (Switching Module) field is used to specify a SM number associated with the PSU.

Software Release: 5E17(1) FR1 and later
Valid Entries: 1 - 192

2.3 * PSU

Description: This field is used to identify the PSU number.

Software Release: 5E17(1) FR1 and later
Valid Entries: 0 - 1

2.4 * LINK

Description: This field is used to identify the PSU link number.

Software Release: 5E17(1) FR1 and later
Valid Entries: 1 - 10

2.5 APS TYPE

Description: The APS TYPE field is used to indicate the type of automatic protection switch used on the link.

Software Release: 5E17(1) FR1 and later
Default: UNIDIRECT
Valid Entries:

Valid ASP TYPE Entries	
Entry	**Definition**

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BIDIRECT	Bidirectional
NONE	No automatic protection switch type
UNIDIRECT	Unidirectional

2.6 ATM INTF

Description: The ATM INTERFACE field is used to specify whether or not the ATM (Assynchronous Transfer Mode) interface is a User to Network interface, or a Network to Network interface.

Software Release: 5E17(1) FR1 and later
Default: UNI
Valid Entries:

Valid ATM INTF Entries

Entry	Definition
NNI	Network-Network Interface
UNI	User-Network Interface

2.7 CONGEST LEVEL

Description: When CONGEST LEVEL field is set to 353K, the receive occupancy congestion checks for the ATM (Asynchronous Transfer Mode) link are based off of the maximum OC3 (Optical Carrier (level) 3) rate of 353,207 ATM cells per second. And when it is set to 100K the receive occupancy congestion checks are based off of a 100,000 ATM cells per second level.

Software Release: 5E18(1) and later
Default: 353K
Valid Entries: 100K or 353K

2.8 DEFAULT LINK

Description: The DEFAULT LINK field is used during review to indicate if this LINK is the default link for this PSU specified. This field was added to support the Multiple PHA2 (Protocol Handlers for ATM 2) PSU (Packet Switching Unit) to PSU Connectivity feature. For more information, see Division 2, Section 7CG.

Software Release: 5E18(1) and later
Default: N
Valid Entries: Y, N

CHANNELS

These fields (Section 2.9 - Section 2.12) are used to define both channels of the PSU (Packet Switch Unit) link. The channels are defined by assigning physical PHA2s (Protocol Handler for ATM (Asynchronous Transfer Mode) 2s) and channel groups.

2.9 SHELF

Description: The SHELF field is used to define the PSU shelf where the protocol handler for ATM type PHA2 (Protocol Handler for ATM level 2) is located.

Software Release: 5E17(1) FR1 and later
Valid Entries: 0 - 4

Data Rules:

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For each channel, when one field is entered, then all fields must be entered.

For each channel, when SHELF or POSITION is entered, then SHELF, POSITION, and CON TYPE must be entered.

The combination of SHELF and POSITION must be unique for both channels.

When SHELF for CHAN 0 equals SHELF for CHAN 1, CHL GRP for CHAN 0 must not equal CHL GRP for CHAN 1.

2.10 POSITION

Description: The POSITION field is used to define the position number where the protocol handler for ATM type 2 (PHA2) is located.

Software Release: 5E17(1) FR1 and later
Valid Entries: 0 - 15

2.11 CHL GRP

Description: The CHL GRP field is used to designate a channel group on the SHELF for the current ATM link channel.

Software Release: 5E17(1) FR1 and later
Valid Entries: 0 - 15

2.12 CON TYPE

Description: The CON TYPE field specifies the connection type of each channel.

Software Release: 5E17(1) FR1 and later
Valid Entries:

Valid CON TYPE Entries

Entry	Definition
ATMNET	PSU connectivity is via ATM Networks.

Data Rules:

When CHANNELS CON TYPE on the ATMLNK form and/or PSULNK form (5057 Record) is "ATMNET", the NEAR PSU on the PSULNK form, and/or PSU on the ATMLNK form must be unique between the ATMLNK and PSULNK forms.

NOTE: If NEAR PSU on the PSULNK form is blank, its value is derived from PSU on the EQPSU form (5741 Record) where the PSULNK form's key, NEAR COM ADDR, is matched to the COM ADDR field on the EQPSU form.

CON TYPE for CHAN 0 must be the same as CON TYPE for CHAN 1.

When CON TYPE is "ATMNET", ATM INTF must be "NNI".

When multiple links are defined on the ATMLNK form where CHANNELS CON TYPE is "ATMNET", there must be an EQPSU form (5741 Record) where SG 0 TYPE and SG 1 TYPE are defined as "PSU2E".

When row 2 of CHANNELS CON TYPE is defined on the ATMLNK form as "ATMNET", only one SM, PSU

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combination can have a DEFAULT LINK set to "Y".

AAL2 PARAMETERS

These fields (Section 2.13 - Section 2.17) are used to define both channels of the PSU (Packet Switch Unit) link. The channels are defined by assigning physical PHA2s (Protocol Handler for ATM (Asynchronous Transfer Mode) 2s) and channel groups.

2.13 MAX VCCS

Description: The CHL GRP field is used to designate a channel group on the SHELF for the current ATM link channel. This is a no change field.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Valid Entries: 1024

2.14 START VPI

Description: The START VPI (Virtual Path Identifiers) field is used to specify the starting value of the VPI.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Default: 0
Valid Entries: 0 - 255

Data Rules:

The sum of START VPI and NUM VPI must not be greater than 256.

2.15 NUM VPI

Description: The NUM VPI (Number of the Virtual Path Identifiers) field is used to specify how many VPIs are needed.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Default: 32
Valid Entries: 0, 1, 2, 4, 8, 16, 32, 64, 128, or 256

Data Rules:

NUM VPI multiplied by NUM VCI must be equal to MAX VCCS.

2.16 START VCI

Description: The START VCI (Virtual Channel Identifier) field is used to specify the starting value of the VCI.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Default: 32
Valid Entries: 0 or 32 - 65532

Data Rules:

The sum of START VCI and NUM VCI must not be greater than 65536.

2.17 NUM VCI

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Description: The NUM VCI (Number of Virtual Channel Identifiers) field is used to specify how many VCIs are needed.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Default: 32
Valid Entries: 0, 4, 8, 16, 32, 64, 128, 256, 512, or 1024

AAL5 PARAMETERS

2.18 VPC SUPPORT

Description: The Virtual Path Connection Support field is used to specify whether or not the VPC is supported.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Default: Y
Valid Entries: Y, N

CELL DISCARDED THRESHOLDS

These fields (Section 2.19 - Section 2.23) are used to define various cell discarded thresholds needed to support the PHA2 PSU to PSU Connectivity feature. For more information, see Division 2, Section 7BY.

2.19 HEC VIOLATIONS

Description: The HEC (Header Error Control) Violation field identifies the threshold for HEC violations.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.20 ATM LYR HDR ERR

Description: The ATM Layer Header Error field identifies the threshold for ATM layer header errors.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.21 CRC 10 ERR

Description: The Cyclic Redundancy Check Error field identifies the threshold for CRC 10 errors.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.22 OAM CELL TYP ERR

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Description: The Operations Administration and Maintenance Cell Type Error field identifies the threshold for OAM Cell Type errors.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.23 NOT SUPP REQ

Description: The Not Supported Request field identifies the threshold for unsuported requests.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

MISC THRESHOLDS

These fields (Section 2.24 - Section 2.26) are used to define various miscelanous thresholds needed to support the PHA2 PSU to PSU Connectivity feature. For more information, see Division 2, Section.

2.24 OCD ANOMALIES

Description: The Out of Cell Delineation Anomalies field uses the ATM Cell HEC to locate the received cells in a payload. When 7 cell in a row are discarded because of HEC violations, and OCD anomaly occurs, the OCD counter is incremented. The counter is not incremented again until the next OCD anomaly which only occurs after cell delineation is re-established and then lost again. The threshold is a threshold value for the OCD counter.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.25 SD THRESH

Description: The Signal Degrade field indicates the SD bit-errorr threshold that is used for each channel of the ATM link. When this threshold is reached for a channel, the channel has a degraded signal.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 9
Valid Entries:

Valid SD THRESH Entries

Entry	Definition
5	10E - 5 or .00001
6	10E - 6 or .000001
7	10E - 7 or .0000001
8	10E - 8 or .00000001
9	10E - 9 or .000000001

2.26 SF THRESH

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Description: The Signal Fail field indicates the SF bit-errorr threshold that is used for each channel of the ATM link. When this threshold is reached for a channel, the channel goes into a signal fail condition.

Software Release: 5E17(1) FR1 and later (Not currently supported)
Required field.
Default: 3
Valid Entries:

Valid SF THRESH Entries

Entry	Definition
3	10E - 3 or .001
4	10E - 4 or .0001
5	10E - 5 or .00001

AAL5 PROTOCOL THRESHOLDS

These fields (Section 2.27 - Section 2.31) are used to define various AAL5 (ATM Adaptation Layer 5) Protocol thresholds needed to support the PHA2 PSU to PSU Connectivity feature. For more information, see Division 2, Section.

2.27 CRC32 VIOLATION

Description: The Cyclic Redundancy Check 32 Violation field identifies the threshold for CRC 32 violations.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.28 OVERSIZED SDU

Description: The Oversized Software Data Unit field identifies the threshold for the SDU.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.29 LENGTH VIOLATION

Description: This field identifies the threshold for AAL 5 length.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 0
Valid Entries: 0 - ffffffff hex

2.30 INVALID CPI

Description: The Invalid Channel Path Identifier field identifies the threshold for an invalid CPI.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 0

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Valid Entries: 0 - ffffffff hex

2.31 LEVEL 2 QUALITY

Description: This field indicates the AAL5 level 2 quality thresholds.

Software Release: 5E17(1) FR1 and later
Required field.
Default: 100
Valid Entries: 0 - 100

```
atmlnk                              5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
(5592)                           ATM LINK ASSIGNMENT

*1. SM       001                          AAL2 PARAMETERS
*2. PSU      1                          12. MAX VCCS  1024
*3. LINK     1                          13. START VPI   0
 4. APS TYPE UNIDIRECT                  14. NUM VPI    32
 5. ATM INTF UNI                        15. START VCI    32
                                        16. NUM VCI     32
           6. CHANNELS
                          CHL CON        AAL5 PARAMETERS
ROW CHAN SHELF POSITION GRP TYPE      17. VPC SUPPORT Y
 1   0     _      __    __  _______
 2   1     _      __    __  _______
```

```
atmlnk                              5ESS Switch           _
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5592)                           ATM LINK ASSIGNMENT

  CELL DISCARDED THRESHOLDS          AAL5 PROTOCOL THRESHOLDS
18. HEC VIOLATIONS   00000000    26. CRC32 VIOLATION  00000000
19. ATM LYR HDR ERR  00000000    27. OVERSIZED SDU    00000000
20. CRC 10 ERR       00000000    28. LENGTH VIOLATION 00000000
21. OAM CELL TYP ERR 00000000    29. INVALID CPI      00000000
22. NOT SUP REQ      00000000    30. LEVEL 2 QUALITY  100

      MISC THRESHOLDS
23. OCD ANOMALIES 00000000
24. SD THRESH     9
25. SF THRESH     3
```

Figure 1 SAMPLE ATMLNK FORM 5E17(1) AND EARLIER SOFTWARE RELEASES

```
atmlnk                              5ESS Switch
SCREEN 1 OF 2                OFFICE DATA ADMINISTRATION
```

```
(5592)                          ATM LINK ASSIGNMENT

*1. SM              ___                      8. CHANNELS
*2. PSU             _                                      CHL CON
*3. LINK            __              ROW CHAN SHELF POSITION GRP TYPE
 4. APS TYPE        UNIDIRECT        1   0     _      __    __  _______
 5. ATM INTF        NNI              2   1     _      __    __  _______
 6. CONGEST LEVEL   353K
 7. DEFAULT LINK    N                  AAL2 PARAMETERS
                                      14. MAX VCCS  1024
                                      15. START VPI   0
                                      16. NUM VPI    32
                                      17. START VCI    32
                                      18. NUM VCI     32
```

```
atmlnk                              5ESS Switch                 _
SCREEN 2 OF 2                OFFICE DATA ADMINISTRATION
(5592)                           ATM LINK ASSIGNMENT

 AAL5 PARAMETERS      CELL DISCARDED THRESHOLDS          AAL5 PROTOCOL THRESHOLDS
19. VPC SUPPORT Y   20. HEC VIOLATIONS    00000000   28. CRC32 VIOLATION   00000000
                    21. ATM LYR HDR ERR   00000000   29. OVERSIZED SDU     00000000
                    22. CRC 10 ERR        00000000   30. LENGTH VIOLATION  00000000
                    23. OAM CELL TYP ERR  00000000   31. INVALID CPI       00000000
                    24. NOT SUP REQ       00000000   32. LEVEL 2 QUALITY   100

                          MISC THRESHOLDS
                    25. OCD ANOMALIES 00000000
                    26. SD THRESH     9
                    27. SF THRESH     3
```

Figure 2 SAMPLE ATMLNK FORM 5E18(1) AND LATER SOFTWARE RELEASES

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