DIV. 4: BRCS FEATURE FORMS

SEC. 1: CLUSTER FORMS

SEC. 1A: 5600 RECORD
CLUSTER DEFINITION FORM - CLUSTR

1. GENERAL

The 5600 Record is available with 5E2 and later Software Releases and defines a cluster of BRCS (Business and Residence Custom Services) Feature names.

With 5E6 and later Software Releases, Speed Calling (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a 5600 Record can be assigned an IDP feature with a Speed Call feature which counts as one feature for that line. However, after a retrofit from the 5E5 Software Release to the 5E6 Software Release, any CLUSTR form with an IDP feature will retain IDP features but will not retain any Speed Call features. Constructed and preconstructed Speed Calling features in the 5E5 Software Release are automatically assigned to corresponding Speed Calling preconstructed features in the 5E6 Software Release.

The CLUSTER NAME is an arbitrary eight character name that must be unique and cannot be equivalent to any other BRCS Feature names.

The CLUSTR form is normally used to create a CLUSTER NAME that represents a group of BRCS feature names. The CLUSTER NAME is then assigned on various feature assignment forms such as LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), TRUNKFA (5205 Record), and TKGRPFA (5206 Record). This method saves data entry effort by allowing a group of features to be represented by a single CLUSTER NAME which is then used in the actual customer assignment.

Note that a CLUSTER NAME can be defined with no BRCS Features. The empty CLUSTER value is assigned on appropriate feature definition forms to initialize the customer assignment base relation data in ODA, and then the actual features are added to the CLUSTR form (5600 Record) after turnover using Recent Change update.

Wildcard feature names of the format /AA* (AA equal to alphabetic) are not allowed to be assigned to a feature on the CLUSTR form.

The following restrictions apply:

- A maximum of 1023 clusters may be defined in an office.
- Clusters may not be assigned to any party lines.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.2.

2. FORM AND RECORD ENTRIES - 5600 RECORD

2.1 BASE AND CONTROL ESS UNIT

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

2.2 * CLUSTER NAME

Description: Enter a unique BRCS Feature Cluster Name. The Cluster Name cannot be equivalent to any

other BRCS Feature names assigned on the CLUSTR form.
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

The total quantity of unique CLUSTER NAMEs may not exceed 1023.

2.3 REMARKS

Description: Enter a description of the CLUSTER NAME.
Valid Entries: 1 - 32 characters

FEATURE LIST

Fields Section 2.4 -Section 2.8 refer to a list of up to sixteen feature names (16 rows, each containing a unique BRCS Feature name), with the associated Activity Status, automatic forms Presentation status, Authorization Code feature status, and Remote Access Services feature status.

2.4 FEATURE

Description: Enter the unique BRCS Feature Name.
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

For 5E9(1) and later, the BRCS Feature Names assigned on the input CLUSTR form must be defined on any of the associated Feature Definition forms:

ACBFD, ACCTFD, ACSRFD, ACVTFD, ARSFD, ASIFD, ASPFD, ATHFD, BCLIDFD, CFWFD, CPNBNFD, CWTFD, DISPFD, DRFD, EDSFD, HIFD, ICMFD, IDFD, MSFD, LIDFD, LSACFD, LSARFD, LSCOTFD, LSCAFD, LSCFFD, LSCRFD, LSDAFD, LSCARFD, MWFD, MDRFD, PFAFD, PPFD, PUOFD, PUTFD, RNDFD, SCFD, TGSRFD, TODFD

The /LIRDAMU, /LIRDNMU, and /LIRMDU preconstructed features which were created to support the Calling Name Delivery feature were not available for the 5E7 Software Release.

For 5E15 and later, when FEATURE is entered on this form, it must not be defined on the MWFD form (5602 Record) where the appropriate fields on the MWFD form are set as follows:

> FEATURE OPTIONS fields: ACT/INACT OPTION must be set to "ACT1CA", MULTIWAY CONTROL must be set to "NWAY", and AMAC must be set to "USAGE",
>
> ENTRY POINT fields: FLASH must be set to "Y", IN MIDDLE must be set to "Y", and OFF HOOK must be set to "Y", and
>
> DEFAULT PARAMETER field: N-WAY MAXIMUM must be set to "6".

The feature options on the MWFD form define a USSWC (Usage Sensitive Six-Way Calling) feature which cannot be assigned on this form. USSWC must be assigned on the OFCOPT form (5509 Record). For more information on the USSWC feature, see Division 2, Section 4A553.

2.5 A

Description: Is the BRCS feature initially active? This is the Activity Status.
Valid Entries: Y, N

Data Rules:

The value of the Activity Status for each Feature Name in the FEATURE LIST is based on the following conditions:

If the Feature Name is defined on the ACBFD (5616-1 Record) or ARSFD form (5608-1A/1B Record), then the Activity Status must equal "Y".

If the Feature Name is defined on the CFWFD (5614-1/2 Record), CWTFD (5603-1 Record), DRFD (5606-1 Record), PUOFD (5605-1 Record), PUTFD (5605-2 Record) (5E6 and earlier) , or TGSRFD form (5607-1/2 Record) with the ACT TYPE equal to "AUTO", then the Activity Status must equal "Y".

For 5E7 and later, if the Feature Name is defined on the PUTFD form, with ACT TYPE equal to "AUTO", it is recommended that the Activity Status equal "Y".

If the Feature Name is defined on the TODFD form (5610-1 Record) with the CUSTOMER ACTIVATION equal to "N", then the Activity Status must equal "Y".

If the Feature Name is defined on the IDFD form (5601 Record) with CUST ACT/DEACT IDP equal to "N", then the Activity Status must equal "Y".

If the Feature Name is defined on the MWFD form (5602-1/2 Record) with the ACT/INACT OPTION equal to "ALWACT" or "INACT1CA", then the Activity Status must equal "Y".

If the Feature Name is defined on the CFWFD form with the ACT TYPE equal to "CODE", "CDDN", "CDDNC", or "CDDNCA", then the Activity Status must equal "N".

If the Feature Name is defined on the MWFD form with the ACT/INACT OPTION equal to "ACT1CA", then the Activity Status must equal "N".

If the Feature Name is defined on the CWTFD, DRFD or TGSRFD form with the ACT TYPE equal to "CODE" and the DACT TYPE equal to "AUTO", then the Activity Status must equal "N".

2.6 P

Description: Enter the value for automatic forms presentation. The value to be entered is that which will be used in RC/V after the ODD (Office Dependent Data) is loaded on the switch.

Valid P Entries

Entry	Definition
N	No automatic forms presentation
R	Automatic forms presentation on RC/V review case
U	Automatic forms presentation on RC/V update case

Data Rules:

If one or more Feature Names are submitted, the corresponding A and P fields must also have an entry.

If the FEATURE assigned on this form is defined on the DISPFD form (5965 Record) or LIDFD form (5966 Record), then this field must be entered with "N".

2.7 AC

Description: Is the Authorization Code feature required?

Software Release: 5E3 and later
Valid Entries: Y, N

Data Rules:

If AC is "Y", then this CLUSTR form or an associated LINEFA, MLHLNFA, TKGRPFA or TRUNKFA form must have one and only one ATH Feature associated with it, defined on the ATHFD form (5619-1 Record).

If AC is "Y", and the corresponding feature is not an ATH feature defined on an ATHFD form, then the feature must be entered on ATHFCOS forms (5619-4 Record) for the CSV ATH Groups associated with lines, MLHG/TERMs, trunk groups, or trunks to which this cluster is assigned. For 5E6 and later, the feature must also be entered on ATHFCOS forms for the CSD ATH Group.

If the AC field is set to "Y", then an Authorization Code Feature must also exist on either a LINEFA form, a BFG form, or an associated CLUSTR form. The Authorization Code Feature must be defined on the ATHFD form, and entered on a LINEFA form, BFG form, or an associated CLUSTR form.

AC must be "N" when FEATURE is:

- a DISP feature, and the cluster is assigned on a LINEFA, MLHLNFA, TKGRPFA, or TRUNKFA form;
- an ACVT, BCLID, CPNBN, EDS, LID, MS, or RND feature, and the cluster is assigned on a LINEFA or MLHLNFA form;
- an ACSR, HI, or Feature Button ICM feature, and the cluster is assigned on a LINEFA form.

2.8 R

Description: Are RAS (Remote Access Services) requested on the feature?

Software Release: 5E5 and later
Valid Entries: Y, N

Data Rules:

The only feature supported by RAS in 5E5 is RACF (Remote Access Call Forwarding). If "Y" is entered, the associated CFWFD form (5614-1/2 Record) must have ACT TYPE set to "CDDN", "CDDNC", "CDDNCA", "CDCA1A", or "CODE", and the DACT TYPE set to "CODE".

```
clustr                          5ESS Switch          _
(5600)                   OFFICE DATA ADMINISTRATION
                         FEATURE CLUSTER DEFINITION

* 1. CLUSTER NAME  AJAXI
  2. REMARKS       ________________________________

                          3. FEATURE LIST (FEATLIST)
    5.                 11.                 17.                 23.
row FEATURE   A P AC R  FEATURE   A P AC R  FEATURE   A P AC R  FEATURE   A P AC R
```

```
01 AJAXDPI  Y U Y  N  __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _
02 __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _
03 __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _

04 __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _  __________ _ _ _  _
```

Figure 1 SAMPLE CLUSTR FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 2: INDIVIDUALIZED DIALING FORMS

SEC. 2A: 5601 RECORD
INDIVIDUALIZED DIALING FEATURE DEFINITION FORM - IDFD

1. GENERAL

The 5601 Record is available with 5E2 and later Software Releases. The IDFD form is used to define IDPs (Individualized Dialing Plans) for assignment to lines and/or trunks.

A terminal (line or trunk) may be assigned only one ID feature on the feature assignment forms LINEFA, MLHLNFA, BFG, TKGRPFA or TRUNKFA. Each such combination is given a feature name of from one- to eight-characters which is used to assign the constructed (switch owner defined) feature to lines or trunks. ID constructed features do not count toward the office's Constructed Feature Limit; see the CFL form (5712 Record) in Division 8, Section 11.

Certain ID features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/) and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed ID features is contained in Figure 2 .

1.1 Recent Change View

The corresponding Recent Change view for this form is 12.17.

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 * FEATURE

Description: Enter the Individualized Dialing feature name. Feature names may be from one- to eight-characters long, with no restrictions on the valid characters, except that feature names starting with a slash (/) are reserved for preconstructed features.

Preconstructed features may be reviewed in the ODA database but may not be deleted, changed or inserted.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.7) define the options assigned with the feature.

2.4 INHIBIT CHARGING

Description: Enter the type of calls that will not be charged.

Default: ICOMOFFC
Valid Entries:

Valid INHIBIT CHARGING Entries

Entry	Definition
ICOMGRP	Inhibit charging of intercom calls within the originator's Terminal Group.
ICOMOFFC	Inhibit charging of line-to-line intercom calls withinthe originator's switching office.
NO	Bill all calls normally.

2.5 CUST ACT/DEACT IDP

Description: Is the customer allowed to activate or deactivate the IDP?
Default: N
Valid Entries: Y, N

Data Rules:

If customer deactivation is allowed, the particular IDP must contain an IDP deactivation code (see the IDPDCA form). A terminal must be authorized with an appropriate DPAT (Dialing Plan Access Treatment) code to deactivate its IDP and it must be assigned to an IDP Group for deactivation to be successful.

If customer activation of an IDP is allowed, the ODP (Office Dialing Plan) must contain an IDP activation code (see the PDIT Form). A terminal must be authorized to activate its IDP, and it must be assigned to an IDP Group for activation to be successful. A terminal is authorized by being assigned an IDFD feature name which allows activation of the IDP. If it is desired that not all of the terminals which use the IDP Group information should be allowed to activate the IDP, then two IDFD features would be required. One of the IDFD forms would be defined with CUST ACT/DEACT IDP equal to "Y", and the other equal to "N". They must have unique feature names so they can be assigned appropriately to the terminals on the feature assignment forms. All the terminals can still be assigned to (and share) the same IDP Group Name and information.

2.6 CUST ACT/DEACT ACT

Description: Is the customer allowed to activate or deactivate the Alternate Code Treatment for any of its defined sets (see the IDPACT form)? Enter "N" if customer activation/deactivation is not allowed.
Default: N
Valid Entries: Y, N

Data Rules:

If customer activation/deactivation is allowed, either the named IDP must contain codes with "ACTOFF" and "ACTON" actions (see the IDPDCA form) or an appropriate key must be provided (see the FTRKEY form).

To activate or deactivate the ACT with a dialed code, a terminal must be authorized (with an appropriate DPAT code), and it must be assigned an IDP for the change to be successful.

2.7 GPIC CUST CHANGEABLE

Description: Is the customer allowed to change the IDP group primary interexchange carrier?
Default: N
Valid Entries: Y, N

Data Rules:

If customer change is allowed, the named IDP must contain a group carrier change code (see the IDPDCA form). To change the carrier, a terminal must be authorized (with an appropriate DPAT code) to change the carrier and it must be assigned an IDP for the change to be successful.

DEFAULT PARAMETERS

The following fields (Section 2.8 - Section 2.10) define the default parameters assigned with the feature to terminals (lines or trunks). These parameters will be assigned to the terminal unless they are overridden by entries on the IDPLPA, IDPMPA or IDPTPA forms.

If an IDPLPA, IDPMPA, or IDPTPA parameter assignment form is entered for any given terminal, all entries on that form will be used for the terminal. None of the default parameters entered here on the IDFD form will be used.

2.8 IDP GROUP NAME

Description: Enter the name of the default Individualized Dialing Plan Group Name. The name may be from one to eight characters, with no restrictions on the valid characters.
Valid Entries: 1 - 8 characters

Data Rules:

When a trunk is assigned an IDP feature on the TKGRPFA, TRUNKFA, or associated CLUSTR form, the IDP GROUP NAME must be entered here or on the IDPTPA form if one exists for the trunk group.

If a default IDP GROUP NAME entered is defined on an IDPGP form (5601-4 Record) with DPAT ALLOWED set to "Y", DPAT CATEGORY must be entered on this IDFD form.

If a default IDP GROUP NAME is not entered, DPAT CATEGORY must not be specified.

2.9 DPAT CATEGORY

Description: Enter the default Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

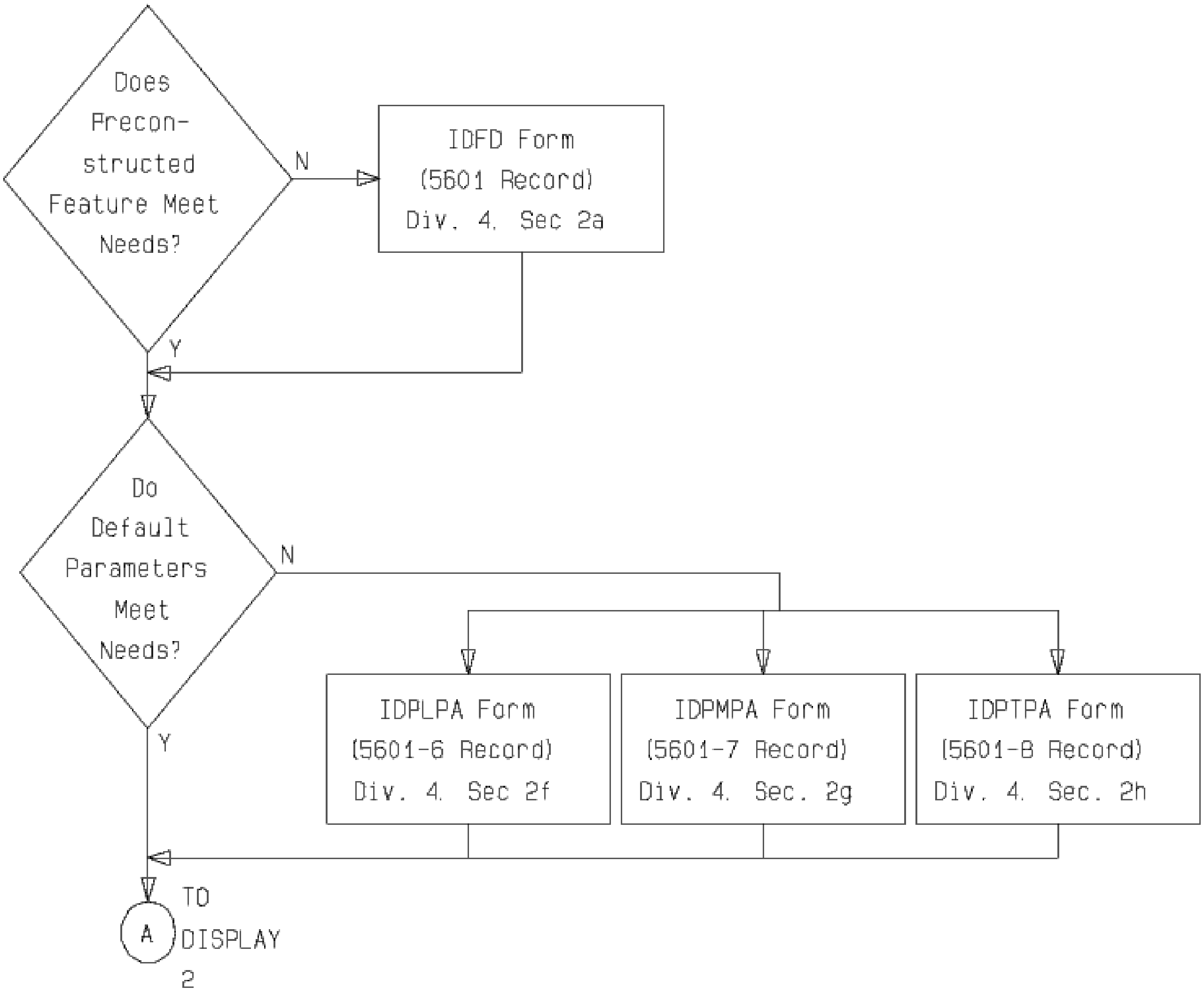
If this field is entered, IDP GROUP NAME must be entered on this form, and for 5E8 and later, DPAT ALLOWED must be "Y" on the corresponding IDPGP form (5601-4 Record).

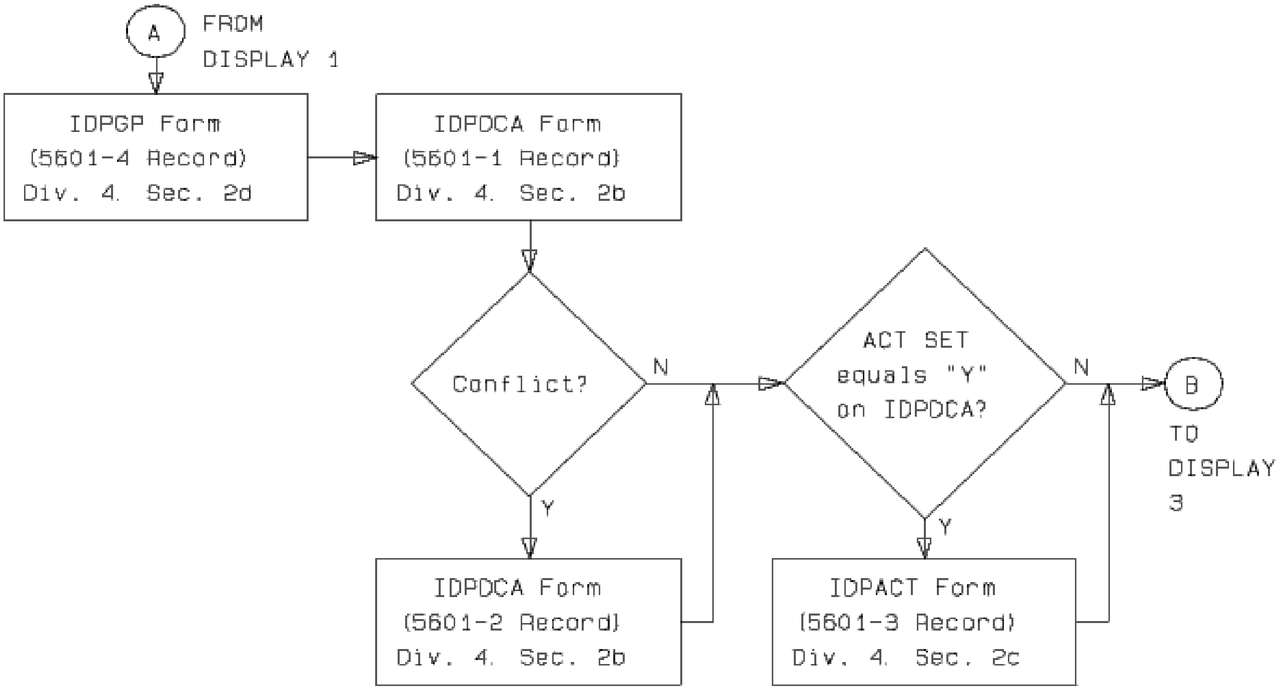
2.10 ICR SFG

Description: Enter an Intercom Calling Restriction Simulated Facility Group number.
Valid Entries: 1 - 2000

Data Rules:

If an ICR SFG is entered, then an IDP GROUP NAME must be entered. The ICR SFG must also be defined on the PFASFG form with "ICR" entered in the SFG TYPE field.


Does Precon-structed Feature Meet Needs?
N
Y
IDFD Form (5601 Record) Div. 4. Sec 2a
Do Default Parameters Meet Needs?
N
Y
IDPLPA Form (5601-6 Record) Div. 4. Sec 2f
IDPMPA Form (5601-7 Record) Div. 4. Sec. 2g
IDPTPA Form (5601-8 Record) Div. 4. Sec. 2h
A
TO DISPLAY 2


A
FROM
DISPLAY 1
IDPGP Form
(5601-4 Record)
Div. 4. Sec. 2d
IDPDCA Form
(5601-1 Record)
Div. 4. Sec. 2b
Conflict?
N
Y
IDPDCA Form
(5601-2 Record)
Div. 4. Sec. 2b
ACT SET
equals "Y"
on IDPDCA?
N
Y
IDPACT Form
(5601-3 Record)
Div. 4. Sec. 2c
B
TO
DISPLAY
3

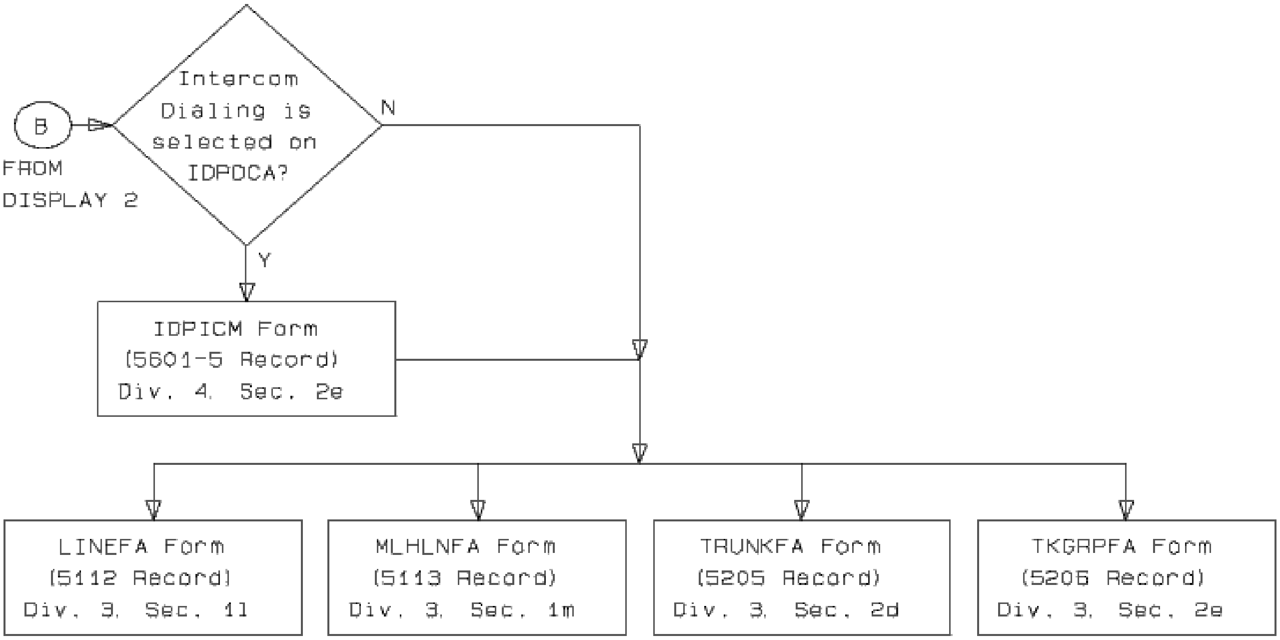

B
FROM
DISPLAY 2
Intercom
Dialing is
selected on
IDPDCA?
N
Y
IDPICM Form
(5601-5 Record)
Div. 4. Sec. 2e
LINEFA Form
(5112 Record)
Div. 3. Sec. 1l
MLHLNFA Form
(5113 Record)
Div. 3. Sec. 1m
TRUNKFA Form
(5205 Record)
Div. 3. Sec. 2d
TKGRPFA Form
(5206 Record)
Div. 3. Sec. 2e

Figure 1 INDIVIDUALIZED DIALING FORM FLOW 5E7 AND LATER SOFTWARE RELEASES

ESS 5601(11/96)TG-5
INDIVIDUALIZED DIALING
FEATURE DEFINITION RECORD
5ESS SWITCH
DATE ___________
IDFD
12.17
BASE______CONT GR____
5ESS UNIT ___________________
PAGE______

FEATURE	REMARKS	FEATURE OPTIONS				DEFAULT PARAMETERS		
		INHIBIT CHARGING	CUST ACT/DEACT IDP	CUST ACT/DEACT ACT	GPIC CUST CHANGEABLE	IDP GROUP NAME	D C PAATTEGORY	ICR SFG
/ID*	WILD-CARD ID FEATURE	ICOMGRP	Y	Y	Y			
/IDP	ID FEATURE WITHOUT CUST CHANGE.	ICOMGRP	N	N	N			
/IDP1	ID FEATURE WITH CUST CHANGE.	ICOMGRP	Y	Y	Y			

Figure 2 PRECONSTRUCTED ID FEATURES 5E7 AND LATER SOFTWARE RELEASES

```
                              5ESS Switch            _
idfd                   OFFICE DATA ADMINISTRATION
(5601)          INDIVIDUAL DIALING PLAN FEATURE DEFINITION

*2. FEATURE ID1                  3. REMARKS ________________________________

============================== FEATURE OPTIONS ================================
 4. INHIBIT CHARGING     ICOMOFFC
 5. CUST ACT/DEACT IDP   N
 6. CUST ACT/DEACT ACT   N
 7. GPIC CUST CHANGEABLE N

============================ DEFAULT PARAMETERS ===============================
 8. IDP GROUP NAME       IDP1
 9. DPAT CATEGORY        02
10. ICR SFG              0001
```

Figure 3 SAMPLE IDFD FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 2B: 5601-1/2 RECORDS
INDIVIDUALIZED DIALING PLAN DIALED CODE ASSIGNMENT FORM - IDPDCA

1. GENERAL

The 5601-1/2 Record is used to define the dialed codes associated with IDPs (Individualized Dialing Plans).

The IDPDCA form is associated with an Individualized Dialing Feature Definition form, IDFD form (5601-a/b Record).

1.1 Dialed Code Ambiguities

Ambiguities are allowed in defining an IDP's dialed codes. This is similar to ambiguities which occur in the ODP (Office Dialing Plan), particularly as defined in LDIT. Ambiguities occur whenever the treatment of a call depends, at some point in the inpulsing, upon whether or not any additional digits are received. As an example, if two entries are provided on the IDPDCA, one for 2 (an Abbreviated Dial code) and one for 2000 (an Intercom code), an ambiguity occurs after the digit 2 is received. The ambiguity is resolved by critical timing, usually four seconds (see the TIMING form, (5520 Record)). If no more digits are received within this specified interval, the call times out and is given the treatment specified on the IDPDCA entry for 2. Otherwise, digit analysis continues as more digits are received.

For any two IDPDCA entries in which ambiguity occurs, the entry with the shorter of the codes must have a STATE of "NORMAL", i.e., all the digits expected must be specified in Incoming Digits.

1.2 Abbreviated Dialing

A terminal which belongs to an IDP Group, and also has Abbreviated Dialing, must use the IDPDCA to interpret the AD (Abbreviated Dialing) codes. Dialing AD codes while the Office Dialing Plan is doing digit analysis will not be allowed for this terminal.

It is possible to enter in Incoming Digits more than one digit for AD1USE and more than two digits for AD2USE. However, call processing will use the last digit or digits dialed to enter the Abbreviated Dialing Lists. For instance, if *20 is defined in the IDPDCA as AD2USE, the 20 should be defined in the ADLIST. When the customer dials *20, the Stored DN associated with 20 will be used.

1.3 Recent Change View

The corresponding Recent Change View for this form is 9.13.

2. FORM ENTRIES - 5601-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IDP GRP

Description: Enter the IDP Group Name.

Required Field.
Valid Entries: 1 - 8 characters

2.3 * INC DIGITS

Description: Enter the dialed, or inpulsed, code to be interpreted.

Required Field.
Valid Entries: 1 - 10 digits, 0 - 9 inclusive. The first digit may also be # or *. The first or second digit, but not both, may be O, F, I, or P.

Data Rules:

If the O, F, I or P characters are entered, the corresponding ACTION and FEATURE must be associated with DSN/PP (Defense Switched Network / Precedence and Preemption). The DSN/PP interface is defined with the BRCS feature PP (Precedence and Preemption). For additional information concerning digit analysis for DSN/PP refer to the PPFD form (5618-1 Record).

If it is necessary to enter a single character * or #, the character must be preceded or followed by a space (space bar).

2.4 STATE

Description: This field defines the state of digit interpretation after the last digit in the INC DIGITS field has been dialed.

Required Field.
Default: NORMAL
Valid Entries:

Valid STATE Entries

Entry	Definition
CONFLCT	If the destination or treatment of the call cannot be determined after receipt of the last digit in the INC DIGITS field but depends upon the number (rather than value) of additional dialed digits, then enter "CONFLCT" in this field. Also enter "CONFLCT" when the treatment can be determined by the INC DIGITS, but a variable number of digits remain to be collected.
REMAIN	If the specified INC DIGITS are sufficient to determine the call treatment, but additional digits are to be collected for outpulsing or for intercom calling, then enter "REMAIN". If "REMAIN" is specified, an entry is required in the NBR REM DIGITS field. If "REMAIN" is specified, an entry is required in both ACTION and FEATURE.
NORMAL	If the specified digits are sufficient to determine the call treatment, and no additional digits are to be collected, enter "NORMAL". If "NORMAL" is specified, an entry is required in both ACTION and FEATURE.
PAUSE	This state is applicable to the DSN (Defense Switched Network) capability. If the specified INC DIGITS are sufficient to determine an action but subsequent digits must also be analyzed in the IDPDCA, enter "PAUSE". If "PAUSE" is specified, an entry is required in both ACTION and FEATURE.

Data Rules:

When STATE is "CONFLCT", at least two conflict resolution entries must be entered on this form.

If STATE is "CONFLCT" then only the conflict entries may be specified.

When STATE is "PAUSE", REM DIGITS must be blank.

2.5 ACTION

Description: Enter the action to be taken when the INC DIGITS are dialed.

This field does not apply when STATE is "CNFLCT" or "CONFLCT".

Valid ACTION Entries

Entry	Definition
AAOFF	Auto Answer Off via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
AAON	Auto Answer On via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
ACBCANC	Cancel auto-call back camp-on.
ACBUSE	Use auto-call back to camp-on to busy line.
ACCANC	LASS Automatic Callback deactivation. This dialed code allows the user to deactivate the AC (Automatic Callback) feature. The user goes off-hook, enters the dialed code, and receives a cancellation announcement.
ACCTACT	Activate account code feature.
ACCTDCT	Deactivate account code feature.
ACCTUSE	Account code use code.
ACDXFER	Transfer to ACD from ARU followed by ACD DN for the Transfer to ACD from ARU Special Feature.
ACSRCAN	Cancel ACSR move. This action is currently not available.
ACSROFF	Allows a member of an ACSR group with GRP CNTL set to "Y" on the ACSRFD form to deactivate ACSR for the entire group.
ACSRON	Allows a member of an ACSR group with GRP CNTL set to "Y" on the ACSRFD form (5959-1 Record) to activate ACSR for the entire group.
ACSRUSE	Allows an ACSR user to invoke an ACSR move.
ACSRVFY	Allows an ACSR user to verify the status of the ACSR move on the queue.
ACTCPNBN	Activate the CPN/BN feature via dialed code.
ACTGMB	Software Release: 5E15 and later. Activate Group Make Busy
ACTMMB	Software Release: 5E15 and later. Activate Member Make Busy
ACTOFF	Set ACT in IDP off.
ACTON	Set ACT in IDP on.
ACTSTH	Software Release: 5E15 and later. Activate Stop Hunt
ACUSE	Callback activation. This dialed code allows the user to activate the AC (Automatic Callback) feature. The user goes off-hook, enters the dialed code, and receives an appropriate response. (See page of this section for possible responses.)
AD1CH	Change 1 digit Abbreviated Dial list.
AD1USE	Use 1 digit Abbreviated Dial.
AD2CH	Change 2 digit Abbreviated Dial list.
AD2USE	Use 2 digit Abbreviated Dial.
AIUSE	Agent Intercom via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
ALTACT	Activate alternate parameter set.
ANSBACK	Call Park Answer Back. This action allows the user to answer back a parked call from any DN within the same terminal group. For more information on Call Park see Division 2, Section 4A124.
AQCUSE	ACD Queue Calling via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
ARCANC	LASS Automatic Recall deactivation. This dialed code allows the user to deactivate the AR (Automatic Recall) feature. The user goes off-hook, enters the dialed code and a cancellation announcement is returned.
ARSCP	Change ARS pattern group number.
ARSDCT	Deactivate ARS feature for one call.
ARS1USE	Use Automatic Route Selection with Private Network Dialing Plan 1.
ARS2USE	Use Automatic Route Selection with Private Network Dialing Plan 2.
ARSUSE	Use Automatic Route Selection with the Office Dialing Plan.
ARUSE	LASS Automatic Recall activation. This dialed code allows the user to activate the AR (Automatic Recall) feature. The user goes off-hook, enters the dialed code, and receives an appropriate response. (See page of this section for possible responses.)
ASITOG	ASI (Advanced Service Interface) Proxy implicit mode toggle. A dialed code defined in the office as

	a CORC (Customer Originated Recent Change) allows the user to activate or deactivate the ASI Proxy implicit mode feature. The system response is a stutter dial tone. See Division 2, Section 4A93 for more information about ASI.
ASIUSE	ASI Proxy explicit mode activation. This dialed code allows the user to activate the ASI Proxy feature in the explicit mode. The user goes off-hook, enters the dialed code, and receives an immediate connection to an ASI trunk (no dial or confirmation tone).
ASPDNC	No further digits are collected and an immediate query is sent to the SCP. A response is received and the call is routed.
ASPNORM	Digit collection and digit analysis on the collected digits are performed. A query is then launched to the SCP. A response is received and the call is routed.
ASPVAR	Digits are collected until interdigit timing expires. A query is launched and a response is received from the SCP. The call is routed.
ATACTMWI	Activate Message Waiting Indicator by attendant. This dialed code is used by a MSC (Message Service Center) attendant to activate the MWI (Message Waiting Indicator) at the user's station set. The attendant enters the dialed code, receives stutter dial tone and then dials the number of the telephone the MWI is to be activated on.
ATDCTMWI	Deactivate Message Waiting Indicator by attendant. This dialed code works similarly to the "ATACTMWI" action. The attendant can enter the dialed code, receive stutter dial tone and then dial the number of the telephone the MWI is to be deactivated on.
ATFACT	DN activates ISDN Attendant Control of Voice Terminal feature.
ATFDCT	DN deactivates ISDN Attendant Control of Voice Terminals feature.
ATGACT	A DN activates ISDN ACVT (Attendant Control of Voice Terminal) feature for a group of DNs.
ATGDCT	A DN deactivates ISDN ACVT (Attendant Control of Voice Terminal) feature for a group of DNs.
ATHACT	This feature is used to activate the Authorization Code feature. This ACTION will automatically set the A field to "Y" on the associated line or trunk assignment form, e.g., LINEFA, TRUNKFA, or TKGRPFA forms.
ATHDCT	This feature is used to deactivate the Authorization Code feature. This ACTION will automatically set the A field to "N" on the associated line or trunk assignment form, e.g., LINEFA, TRUNKFA, or TKGRPFA forms.
ATHINS	This ACTION is used to put a line or trunk "In Service" by automatically setting the ATH FIRST field to "N" on the associated ATHLPA, ATHMPA or ATHTPA form. When the ATH FIRST field is set to "N", an Authorization Use Code and the Authorization Code is not needed before the TN is entered.
ATHNREQ	This ACTION is used to automatically set the AC field to "N" on the associated line or trunk assignment form, e.g., LINEFA, TKGRPFA, or TRUNKFA forms. When the AC field has a value of "N", an Authorization Use Code and an Authorization Code is not needed before a feature, e.g., call forwarding, can be used. The features must be specified on the ATHFCOS form and they must be dial code activated.
ATHOOS	This ACTION is used to put a line or trunk "Out of Service" by automatically setting the ATH FIRST field to "Y" on the associated ATHLPA, ATHMPA or ATHTPA form. When the ATH FIRST field is set to "Y", an Authorization Use Code and the Authorization Code is needed before the TN is entered.
ATHREQ	This ACTION is used to automatically set the AC field to "Y" on the associated line or trunk assignment form. When the AC field has a value of "Y", an Authorization Use Code and an Authorization Code is needed before a feature (e.g., call forwarding) can be used. The features must be specified on the ATHFCOS form and they must be access code activated.
ATHUSE	This ACTION is used as the Authorization Use Code for the Authorization Code Feature defined on the ATHFD form (5619-1 Record).
AUCUSE	Auto Call Set Up used with Message Service and Electronic Directory Service features.
BPARK	Basic Call Park. This action allows a user active on a call to park the call against the user's DN. Dial codes can be used for ISAT (ISDN Attendant) consoles but cannot be used with ISDN terminals. For more information on Call Park see Division 2, Section 4A124.
BBTLUSE	This action is used for billed BRITL (Basic Rate Interface Dial Up Test Line).
BSYACT	Software Release: 5E16(2) and later. Activates all Call Forwarding Busy feature's prestored DNs.
BSYDCT	Software Release: 5E16(2) and later. Deactivates all Call Forwarding Busy feature's prestored DNs.
BTLUSE	This action is used for non-billed BRITL access.
CCL	Code calling for call pickup.

CFDATCH	Change Call Forward Don't Answer timing.
CFDCT	Deactivate all Call Forwarding features with prestored DNs.
CFDNCH	Change Forward-to DN.
CFVACT	Activate all Call Forwarding Variable features. Associated with Call Forwarding Busy/Idle feature.
CFVDCT	Deactivate all Call Forwarding Variable features. Associated with Call Forwarding Busy/Idle feature.
CLOFF	Closed Off via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
CLON	Closed On via dial code. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
CLWCUSE	Cancel Leave Word Calling. Used with the Message Service feature.
CNDACT	ICLID (Individual Calling Line Identification) Calling Number Delivery activation. This dialed code allows the user to activate the Calling Number Delivery feature which allows the called party to receive data on an incoming call. The user goes off-hook, enters the dialed code, and receives a confirmation tone.
CNDDCT	ICLID (Individual Calling Line Identification) Calling Number Delivery deactivation. This dialed code allows the user to deactivate the Calling Number Delivery feature which allows the called party to receive data on an incoming call. The user goes off-hook, enters the dialed code, and receives a confirmation tone.
CNPUSE	Toggle for NAME privacy per-call. This action is used in the Analog Calling Name Delivery Feature. See Division 2 Section 4A40 for more information.
COTUSE	Customer Originated Trace activation. This dialed code allows the user to activate the Customer Originated Trace feature. The user goes off-hook, enters the dialed code, and receives an appropriate response. (See page of this section for possible responses.)
CPQ1	Use call pickup feature with queue 1.
CPQ2	Use call pickup feature with queue 2.
CPQ3	Use call pickup feature with queue 3.
CPQ4	Use call pickup feature with queue 4.
CSACT	Software Release: 5E14 and later. Activate call screening.
CSDCT	Software Release: 5E14 and later. Deactivate call screening.
CSTOG	Software Release: 5E16(2) and later. Used to toggle between activating and deactivating the FCCS (Forwarded Call - Call Screening) Enhancement feature. For more infomation, see Division 2, Section 4A592.
CTT	Analog Attendant Call Though Test Action. Allows the attendant to make a test call from an Analog line that has been assigned an attendant class of service. The test call will verify the operation of the selected trunk member and the switch translations.
CWDLU	Use a dial Call Waiting feature. For ISDN Attendant Consoles, this action is used to assign the camp-on dialed code.
CWOACT	Activate all Call Waiting Originating features.
CWODCT	Deactivate all Call Waiting Originating features.
CWTACT	Activate all Call Waiting Terminating features.
CWTDCT	Deactivate all Call Waiting Terminating features.
CWXCH	Change Call Waiting tone repetition interval.
DAACT	Software Release: 5E16(2) and later. Activates all Call Forwarding Don't Answer feature's prestored DNs.
DADCT	Software Release: 5E16(2) and later. Deactivates all Call Forwarding Don't Answer feature's prestored DNs.
DALTACT	Activate alternate parameter set for CSD.
DARSCP	Change the active ARS pattern group number for CSD.
DBDACT	Deactivate all busy/idle data call forwarding features.
DBDDCT	Deactivate all busy/idle data call forwarding features.
DCDTVM	Software Release: 5E16(2) and later. DTVM Direct Connect.
DCTCPNBN	Deactivate the CPN/BN feature via dialed code.
DCTGMB	Software Release: 5E15 and later. Deactivate Group Make Busy
DCTMMB	Software Release: 5E15 and later. Deactivate Member Make Busy
DCTMWI	Deactivate Message Waiting Indicator. Used with the Message Service feature. The MWI (Message Waiting Indicator) can be deactivated by entering this dialed code. If an MWI lamp is provided with the station set, this action may be associated with the lamp and can be used to deactivate the lamp.

DCTSTH	Software Release: 5E15 and later. Deactivate Stop Hunt
DFRLALT	Activate the CSD alternate FRL.
DGPACT	Activate the ARS CSD group.
DGPDCT	Deactivate the ARS CSD group.
DMAINACT	Activate main parameter set for CSD.
DNPUSE	DNPUSE
DPARK	Directed Call Park. This action allows a user active on a call to park the call against the user's DN, or direct the call to be parked against another directory number within the same terminal group. Dial codes can be used for ISAT (ISDN Attendant) consoles but cannot be used with ISDN terminals. For more information on Call Park see Division 2, Section 4A124.
DPN	Use directed call pickup without barge-in.
DPU	Use directed call pickup with barge-in.
DRPCH	Change ringing pattern.
DTONE	Provide second dial tone.
DTPOTSA	Escape to POTS and give dial tone: Do not retranslate the access code (INC DIGITS) in the Office Dialing Plan.
DTVMCF	Software Release: 5E16(2) and later. DTVM Call Forward.
EMER	Emergency call to DSN operator.
EMUSE	Emergency via dial code or feature button. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
FRLALT	Activate the Alternate FRL table.
FRLDMAIN	Activate the CSD main FRL.
FRLMAIN	Activate the Main FRL table.
FTACT	Activate BRCS feature.
FTDCT	Deactivate BRCS feature.
GPACT	Activate ARS group.
GPDCT	Deactivate IDP or ARS group.
GRPCARCH	Change group carrier in IDP.
HIDHOLD	This action allows a customer to activate the Dialable Hold feature which is a subset of the Home Intercom feature.
HIRINGA	This action is used to apply Ringing Pattern A for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 2 seconds on and 4 seconds off.
HIRINGB	This action is used to apply Ringing Pattern B for the Selective Intercom Dialing and Intercom Code Dialing features. Provides repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on, followed by 4 seconds off.
HIRINGC	This action is used to apply Ringing Pattern C for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on, followed by 4 seconds off.
HIRINGG	This action is used to apply Ringing Pattern G for the Selective Intercom Dialing feature which is a subset of the Home Intercom feature. Provides repeated pattern of 0.3 seconds on, 0.2 seconds off, 1 second on, 0.2 seconds off, 0.3 seconds on, followed by 4 seconds off.
IBSYVFY	ISDN Busy Verify action. This action is used with the ISDN Attendant Console Busy Verification of Directory Numbers and Trunks. The FEATURE associated with this attendant action must be a call pickup originating feature (/CPUVO or an equivalent constructed feature). To implement the barge-in feature, the terminating line/trunk must have a call pickup terminating feature (/CPUIVT for digital, /CPUVT for analog, or an equivalent constructed feature).
ICMUSE	Use intercom range.
IDNACT	Activate/deactivate ISDN ACVT (Attendant Control of Voice Terminals) restrictions for an individual terminal (line).
IDPASP	Access the ASP (Advanced Service Platform; previously PVN (Private Virtual Network)) "default" dialing plan via this IDP. The ASP "default" dialing plan is specified via the ASP DAS field on the OFCOPT form (5509 Record). This action will result in an ASP origination regardless of whether or not the line or trunk is allowed to originate ASP calls. In other words, the action "IDPASP" overrides the ASP ALW field on the LINE (5109 Record), MLHLN (5111 Record), DSLUSR (5908 Record), SHTN (5902 Record) and TKGRP (5202 Record) forms.
IEMEROVR	ISDN Attendant Emergency Override action. The FEATURE associated with this attendant action must be a call pickup originating feature (/CPUEO or an equivalent constructed feature). The lines

	to be overridden must have a call pickup terminating feature (/CPUIEOT for digital, /CPUEOT for analog, or an equivalent constructed feature). The attendant will be able to use the dialed code to override terminating restrictions such as Call Forwarding, Series Completion or members of a multiline hunt group.
IGACT	Activate/deactivate ISDN ACVT (Attendant Control of Voice Terminals) restrictions for a group of lines.
INSUSE	Inspect Use Action. This action allows the display of call-related information about any call appearance in a hold, alerting, or active state.
LDNDCT	Deactivation of all LDNs in a MUPH or ISAT group for a CF variable feature at once.
LSFNOSYM	This action is used by the LSF (LASS Selective Features) to access the SLE (Screen List Editing) session. This ACTION will prompt the user via announcements for digits rather than an asterisk or a pound sign during an SLE session.
LSFSYM	This action is used by the LSF (LASS Selective Features) to access the SLE (Screen List Editing) session. This ACTION will prompt the user via announcements for an asterisk or a pound sign rather than digits during an SLE session.
LSP	Loudspeaker paging for call pickup. The paged party may enter a dialed code and be connected to the calling party.
LWCUSE	Leave Word Calling. The dialed code associated with this action allows the calling party to leave a message for the called party.
MAINACT	Activate main parameter set.
MDRACT	MDR Feature activation code.
MDRDCT	MDR Feature deactivation code.
MDROFF	MDR Group Status - off.
MDRON	MDR Group Status - on.
MEOFF	Dialed Code Request - Manual Exclusion off.
MEON	Dialed Code Request - Manual Exclusion on.
MWITD	ISDN Terminal Dialed Code.
MWSOH	Start multiway feature off hook.
MWSPL	Split last added party from multiway call.
NNPRV	Force per-call NAME and TN private.
NNPUB	Force per-call NAME and TN public.
NTPOTSA	Escape to POTS without dial tone; retranslate the access code (INC DIGITS) in the Office Dialing Plan.
PAI	Immediate DSN/PP access code with second dial tone.
PDTEO	Executive override DSN/PP access code with second dial tone.
PDTF	Flash DSN/PP access code with second dial tone.
PDTFO	Flash override DSN/PP access code with second dial tone.
PDTI	Immediate DSN/PP access code with second dial tone.
PDTP	Priority DSN/PP access code with second dial tone.
PDTR	Routine DSN/PP access code with second dial tone.
PDTRC	DSN/PP Route Code with second dial tone.
PFUSE	Use private facilities.
PNTEO	Executive override DSN/PP access code without second dial tone.
PNTF	Flash DSN/PP access code without second dial tone.
PNTFO	Flash override DSN/PP access code without second dial tone.
PNTI	Immediate DSN/PP access code without second dial tone.
PNTP	Priority DSN/PP access code without second dial tone.
PNTR	Routine DSN/PP access code without second dial tone.
PNTRC	DSN/PP route code without dial tone.
PO	Routine DSN/PP call to DSN/PP operator.
PODUSE	Print on Demand. Used with the Message Service feature.
POF	Flash DSN/PP call to DSN/PP operator.
POFO	Flash override DSN/PP call to DSN/PP operator.
POI	Immediate DSN/PP call to DSN/PP operator.
POP	Priority DSN/PP call to DSN/PP operator.
PP1AREA	PP area code, each area code corresponds to an DSN geographic area. (See Note 1.)
PP2AREA	PP area code, each area code corresponds to an DSN geographic area. (See Note 1.)
PP3AREA	PP area code, each area code corresponds to an DSN geographic area. (See Note 1.)
PP4AREA	PP area code, each area code corresponds to an DSN geographic area. (See Note 1.)
PP5AREA	PP area code, each area code corresponds to an DSN geographic area. (See Note 1.)
PRCD	DSN/PP Route Control Digit.
RBQCAN	Ringback queuing cancel.
RBQVFY	Ringback queuing verify.
RTRV	Call Park Retrieve. This action allows a user to answer a call that is parked against the user's DN. For more information on Call Park see Division 2, Section 4A124.

SAUSE	Service Assist via dial code or feature button. For more information on the ACD/BRCS secured feature see Division 2, Section 4A121.
SDNUSE	Invoke a Software Defined Network call.
SEL1XFER	Transfer to Selective Transfer TN 1 from E911 PSAP (Public Safety Answering Point).
SEL2XFER	Transfer to Selective Transfer TN 2 from E911 PSAP.
SEL3XFER	Transfer to Selective Transfer TN 3 from E911 PSAP.
SEL4XFER	Transfer to Selective Transfer TN 4 from E911 PSAP.
SEL5XFER	Transfer to Selective Transfer TN 5 from E911 PSAP.
SEL6XFER	Transfer to Selective Transfer TN 6 from E911 PSAP.
SPCAR	Use the FGD CAC (Carrier Access Code) with the Intercom or Abbreviated Dial digits that follow.
SP4CAR	Use the FGD CAC with the Intercom or Abbreviated Dial digits that follow.
SRGACT	Software Release: 5E16(2) and later. Activate Simultaneous Ringing
SRGDCT	Software Release: 5E16(2) and later. Deactivate Simultaneous Ringing
SRGNOSYM	Software Release: 5E16(2) and later. Simultaneous Ringing SLE No Symbols
SRGSYM	Software Release: 5E16(2) and later. Simultaneous Ringing SLE Symbols
TD1PAD	Add 1 parameter code.
TDACT	Activate a Time-Of-Day feature.
TDADZP	Add zero parameter code.
TDATCH	Change Time-Of-Day Action Time.
TDDALL	Delete all code lists.
TDDCT	Deactivate a Time-Of-Day feature.
TDDEL1P	Delete 1 parameter code list.
TDOWCH	Change One Week Time-Of-Day Schedule.
TDZPDEL	Delete zero parameter code list.
TGACT	Activate a terminal group feature.
TGDCT	Deactivate a terminal group feature.
UCRACT	Activate UCR (Unidentified Call Rejection).
UCRDCT	Deactivate UCR (Unidentified Call Rejection).

NOTE: 1: Actions marked with "Note 1" in the above table are associated with the BRCS feature, Precedence and Preemption, used for the DSN Network.

For 5E16(2) and later, when this form contains an ACTION or CONFLICT RESOLUTION ACTION entry which is inconsistent with the corresponding FEATURE entry. Either the FEATURE is not found on the appropriate Feature Definition FORM or the FORM level restrictions are not met.

- For 5E16(2) and later, when this form has the wildcard feature or CONFLICT RESOLUTION LIST wildcard feature (/CF*), ACTION can only be "BSYACT", "BSYDCT", "CFDATCH", "CSTOG", "DAACT", or "DADCT" when the ACT field for SFID 592 on the SFSYS form (5713-1 Record) has been set to "Y".

NOTE: The following actions can only be assigned to dial codes on the IDPDCA form (RC/V 9.13) when the ACT field for SFID 592 is set to "Y": "BSYACT", "BSYDCT", "CFDATCH", "CSTOG", "DAACT", or "DADCT" (when being assigned to dial codes, all five actions can only be associated with the /CF* feature). Also, the existing action "CFDATCH" can now be associated with the /CF* feature on the PDIT form (RC/V 9.13) when the ACT field for SFID 592 is set to "Y" (originally, "CFDATCH" could only be associated with non-wildcard CF features. When the ACT field for SFID 592 is set to "Y", the action can be associated with both the /CF* feature and the non-wildcard CF features.)

ACUSE, ARUSE: After subscribers dial an "ACUSE" (or "ARUSE") code, they may receive the following responses:

- Audible alerting. The called party is alerted immediately because the called station is found to be idle.
- Short-term denial. Reorder tone is given to the user to indicate that network resources are temporarily

exhausted or the called party has a feature active that causes the Automatic Callback (or Automatic Recall) attempt to be denied, e.g., Call Forwarding Variable. A subsequent attempt by the user to activate the feature may succeed.

- Long-term denial. An announcement is returned indicating that the Automatic Callback (or Automatic Recall) feature is not allowed to the user.
- Confirmation. An announcement is returned indicating that the Automatic Callback (or Automatic Recall) feature has been activated. Change the 1 digit Abbreviated Dial list.

COTUSE: After subscribers dial a "COTUSE" code, they may receive the following responses:

- Successful activation. An announcement is returned indicating a successful activation of the COT request and provides information on any further action the user should take.
- Trace not available. An announcement is returned indicating that the call has already been traced or invalid data about the call is stored in the history block, e.g., originating and terminating switches are not connected by CCS7 trunks.
- Buffer full. An announcement is returned indicating that the COT message buffer is full and the user should attempt the trace again later.
- Short-term denial. Reorder tone is given to the user to indicate that network resources are exhausted. A subsequent attempt by the user to activate the feature may succeed.
- Feature denial. Reorder tone is given to the user to indicate that the Customer Originated Trace feature is not available to the user.

DNPUSE: The "DNPUSE" action is used for per-call TN privacy; the dialed code can be used in two ways.

- The calling party subscribes to all-call privacy which allows the calling party to prevent delivery of their TN to the called party for all calls (PRIVACY field on the LINE, MLHLN, or DSLUSR form is "Y"). The calling party can deactivate all-call privacy on a per-call basis (TN PRIVACY field on the DISPFD form is "Y"), allowing the calling TN to be displayed to the called party. To deactivate all-call privacy on a per-call basis, the user goes off-hook, enters the dialed code, receives a confirmation tone, receives dial tone, and then dials the TN.
- The terminal may not subscribe to all-call privacy which allows the TN of the calling party to be delivered to the called party for all calls (PRIVACY field on the LINE, MLHLN, or DSLUSR form is "N"). The calling party can activate per-call privacy on a per-call basis (TN PRIVACY field on the DISPFD form is "Y"), not allowing the calling TN to be displayed to the called party. To activate per-call privacy on a per-call basis, the user goes off-hook, enters a dialed code, receives a confirmation tone, receives dial tone, and then dials the telephone number.

Data Rules:

When STATE is "PAUSE", "REMAIN", or "NORMAL", a value must be entered in this field.

When ACTION is "ASPDNC", "ASPNORM", or "ASPVAR",

- TRIG NBR must be entered; and

- ASP OFC on the OFCOPT form must be "SSP".

ACDXFER: This action is for the Special Feature Transfer to ACD from an ARU. For more information see Division 2, Section 4A71. This action can only be used with the NULL feature (/*).

ACTCPNBN: When ACTION is "ACTCPNBN", then the corresponding FEATURE entry must be defined on a CPNBNFD form (5982 Record) with ACT set to "CODE". In addition, the corresponding FEATURE entry must be defined on the ACVTFD form (5967 record) .

ATFACT: When ACTION is "ATFACT" then the corresponding FEATURE entry must be defined on the ACVTFD form (5967 record).

ATFDCT: When ACTION is "ATFDCT" then the corresponding FEATURE entry must be defined on the ACVTFD form (5967 record).

ATGACT: When ACTION is "ATGACT", then the ACVT feature assigned must have an associated restriction group defined. A DN can only activate an ACVT feature for the group in which the DN belongs. In addition, the corresponding FEATURE entry must be defined on the ACVTFD form (5967 record).

ATGDCT: When ACTION is "ATGDCT", then the ACVT feature assigned must have an associated restriction group defined. A DN can only deactivate an ACVT feature for the group in which the DN belongs. In addition, the corresponding FEATURE entry must be defined on the ACVTFD form (5967 record).

BBTLUSE: When ACTION is "BBTLUSE", the DSL that will be tested must have BRITL ALW set to "Y" on the corresponding DSLUSR form. In addition, INC DIGITS on this form must contain only the digits 0 - 9.

BTLUSE: When ACTION is "BTLUSE", then INC DIGITS on this form must contain only the digits 0 - 9.

CNPUSE: The ACTION "CNPUSE" must be used with the feature defined on the DISPFD form and have TN PRIVACY set to "Y" on the DISPFD form for the feature being used. The wildcard feature /DI* may also be used with TN PRIVACY set to "N" on the DISPFD form.

CSACT, CSDCT: When ACTION is "CSACT" or "CSDCT", FEATURE must be "/CF*".

DCTCPNBN: When ACTION is "DCTCPNBN", the corresponding FEATURE entry must appear on a CPNBNFD form (5982 Record) with DEACT set to "CODE".

DTONE: When ACTION is "DTONE", STATE must equal PAUSE.

HIDHOLD: When ACTION is "HIDHOLD", the DIAL HOLD field must be "Y" on the associated HIFD form (5628 Record).

HIRINGA, HIRINGC, HIRINGG: When ACTION is "HIRINGA", "HIRINGC", or "HIRINGG", the SEL ICM DIAL field must be "Y" on the associated HIFD form (5628 Record).

HIRINGB: When ACTION is "HIRINGB", the ICM CODE DIAL field or the SEL ICM DIAL field must be "Y" on the associated HIFD form.

IBSYVFY: When ACTION is "IBSYVFY", the associated call pickup originating feature must be defined on a PUOFD form (5605-1 Record). If the terminating line or trunk is assigned a call pickup terminating feature, that feature must be defined on a PUTFD form (5605-2 Record).

IDPPVN: The "IDPPVN" ACTION cannot be entered when PVN OFC on the OFCOPT form is set to "NONE" since that would indicate the office does not support ASP.

IEMEROVR: When ACTION is "IEMEROVR", the associated call pickup originating feature must be defined on a PUOFD form. The call pickup terminating feature assigned to the lines to be overridden must be defined on a PUTFD form.

NNPRV, NNPUB: ACTIONs "NNPRV" and "NNPUB", must be used with the feature defined on the DISPFD form and have TN PRIVACY set to "Y" on the DISPFD form for the feature being used. The wildcard feature /DI* may also be used with TN PRIVACY set to "N" on the DISPFD form.

SELnXFER: When ACTION is "SELnXFER", where n is 1 - 6, FEATURE must be "/*".

UCRACT: When the ACTION is "UCRACT", the feature must be the /*.

The following ACTIONs require the NULL FEATURE (/*):
- "AAOFF",
- "AAON",
- "ACDXFER",
- "AIUSE",
- "AQCUSE",
- "ATACTMWI",
- "ATDCTMWI",
- "AUCUSE",
- "BBTLUSE",
- "BTLUSE",
- "CLOFF",
- "CLON",
- "EMUSE",
- "MEOFF",
- "MEON",
- "SAUSE",
- "SDNUSE"

2.6 FEATURE

Description: Enter the name of a feature to be accessed or affected by this dialed code. The feature must be defined on one of the BRCS feature definition forms. It may be a constructed or preconstructed feature.

The set of preconstructed features includes wild-card features which may be entered in Individualized or Office Dialing Plans but may not be assigned to lines or trunks. These wild-card features should be included in dialing plans whenever a dialed code affects a feature associated with the calling terminal (line or trunk) rather than a feature specified in the dialing plan itself. For example, if a dialed code's ACTION is "AD1CH" (change the 1-digit Abbreviated Dial List), and the customer dialing the code is to be allowed to change his AD List regardless of the specific ID feature containing the AD list, then the ID wild-card feature name "/ID*" should be entered as the FEATURE. If the customer should be allowed to change only a specific AD list, then the specific ID feature name should be entered as the FEATURE.

The specific feature definition form on which the feature is defined depends upon the value of the ACTION field entry as shown in Figure Figure 1 .

Those ACTIONs where the FEATURE TYPE is indicated as "any non-wild-card feature name" require a specific FEATURE name and the wild-card feature may not be entered here.

For those actions for which the FEATURE TYPE is "any feature name", either the wild-card feature name or a specific feature name may be entered. It is recommended that the wild-card feature always be used; no cases are presently envisioned in which a non-wild-card feature would be appropriate.

For the cases where FEATURE TYPE is "any wild-card feature name", only a wild-card feature name may be entered.
Valid Entries: 1 - 8 characters

Data Rules:

When STATE is "CNFLCT" or "CONFLCT", this field must be blank.

When STATE is "PAUSE", "REMAIN", or "NORMAL", a value must be entered in this field.

2.7 REM DIGS

Description: Enter the number of remaining digits to collect.
Valid Entries: 1 - 14

If the STATE is not "REMAIN", this field must be blank.

2.8 ACT SET

Description: Enter the alternate code treatment set number.
Valid Entries: 1 - 32

Data Rules:

Any value entered here must have been defined on the IDPACT form (5601-3 Record) with the IDP GRP entered on this form.

2.9 ICM RANGE

Description: Enter the intercom range identification number.
Valid Entries: 1 - 512

Data Rules:

Any value entered here must be defined on the IDPICM form (5601-5 Record) with the same IDP GRP entered on this form. This field must be entered if ACTION is ICMUSE, PO, POP, POI, POF, POFO or EMER.

When STATE is "PAUSE", "REMAIN", or "NORMAL", a value must be entered in this field.

2.10 TRIG NBR

Description: Enter the Network services trigger number.

Software Release: 5E9(1) and later
Valid Entries: 1 - 255

Data Rules:

When TRIG NBR is entered, ACTION must be "ASPNORM", "ASPVAR" or "ASPDNC".

2.11 DPAT CATEGORIES

Description: Enter a "Y" or "N" in each position of each dialing plan access treatment categories. A "Y" indicates that a line (or trunk) with the corresponding DPAT code will be allowed access to the feature specified for this dialed code. An "N" indicates no access is allowed. For each of the seven groupings, either leave all five categories blank, indicating that access is not permitted for any of the five categories, or enter "Y" or "N" in each of the five categories, as appropriate. In each case, the leftmost position of the grouping represents the lowest numbered category of the group and the rightmost represents the highest.

A DPAT code is assigned to each terminal (line or trunk) via the default parameter of DPAT CATEGORY on the IDFD form or on a parameter assignment form, IDPLPA, IDPMPA or IDPTPA. If both are used, the value on the parameter assignment form takes precedence, overriding the default value.

Whenever the IDPDCA form is used to analyze digits, either dialed or reconstructed, the DPAT CATEGORY will be checked. Abbreviated Dial and Intercom codes are examples of reconstructed numbers. If the Abbreviated Dial code is allowed for the originator (via DPAT), but the reconstructed number is not (and is being analyzed in IDP), the call will be given the DPAT error treatment.

When STATE is "PAUSE", "REMAIN", or "NORMAL", a value must be entered in this field.

3. FORM ENTRIES - 5601-2 RECORD

CONFLICT RESOLUTION LIST

The following fields (Section 3.1 - Section 3.7) are arranged into eight conflict resolution entries. At least two conflict resolution entries must be entered when the value entered in the STATE field is "CONFLCT".

> ***NOTE:*** The input screen format was consolidated to streamline the data entry function. The number of screens was reduced from five to two. Also, the field group title was changed from CONFLICT RESOLUTION ENTRIES to CONFLICT RESOLUTION LIST.

3.1 REM DIGS

Description: Enter the number of remaining digits to be dialed before the call treatment can be determined.
Valid Entries: 0 - 14

3.2 ACTION

Description: Enter the action to be taken when the INC DIGITS plus NBR DIGITS have been dialed.
Valid Entries: Refer to the ACTION field description at the beginning of this section.

Data Rules:

When CONFLICT RESOLUTION ACTION is "ASPDNC", "ASPNORM" or "ASPVAR",

- TRIG NBR must be entered; and
- ASP OFC on the OFCOPT form must be "SSP".

3.3 FEATURE

Description: Enter the name on a feature, IDP or Abbreviated Dial List which is to be accessed or affected by

this dialed code. The name entered here must be defined on one of the BRCS feature definition forms. For a more complete description, see the description of the FEATURE field earlier in this section.
Valid Entries: 1 - 8 characters

3.4 ACT SET

Description: Enter the Alternate Code Treatment set number.
Valid Entries: 1 - 32

Data Rules:

Any value entered here must have been defined on the IDPACT form with the IDP GRP entered on this form.

3.5 ICM RANGE

Description: Enter the intercom range identification number.
Valid Entries: 1 - 512

Data Rules:

Any value entered here must be defined on the IDPICM form with the IDP GRP entered on this form.

3.6 TRIG NBR

Description: Enter the Network Services trigger number.

Software Release: 5E9(1) and later
Valid Entries: 1 - 255

Data Rules:

When TRIG NBR is entered in the CONFLICT RESOLUTION LIST, ACTION in the list must be "ASPNORM", "ASPVAR"or "ASPDNC".

3.7 DPAT CATEGORIES

Description: Enter a "Y" or "N" in each position of each of the Dialing Plan Access Treatment categories. A Y indicates that a line (or trunk) with the corresponding DPAT code will be allowed access to the feature specified for this dialed code. An "N" indicates no access is allowed. For each of the seven groupings, either leave all five categories blank, indicating that access is not permitted for any of the five categories, or enter "Y" or "N" in each of the five categories, as appropriate. In each case, the leftmost position of the grouping represents the lowest numbered category of the group and the rightmost represents the highest.

IDP ACTIONS AND THEIR FEATURE DEFINITION FORM DEPENDENCIES

ACTION	FEAT DEFN FORM	WILDCARD ALLOWED	NON-WILDCARD FEATURE RESTRICTIONS
AAOFF	-	/*	None
AAON	-	/*	None
ACBCANC	ACBFD	YES	None
ACBUSE	ACBFD	YES	None
ACCANC	LSACFD	YES	None
ACCTACT	ACCTFD	YES	ACT TYPE = "CODE"
ACCTDCT	ACCTFD	YES	DACT TYPE = "CODE"
ACCTUSE	ACCTFD	YES	None
ACDXFER		/*	None
ACTCPNBN	CPNBNFD	YES	ACT = "CODE"
ACSRCAN	ACSRFD	YES	None

ACSROFF	ACSRFD	YES	GRP CNTRL = "Y"
ACSRON	ACSRFD	YES	GRP CNTRL = "Y"
ACSRUSE	ACSRFD	YES	None
ACSRVFY	ACSRFD	YES	None
ACTOFF	IDFD	YES	CUST ACT, /DEACT ACT = "Y"
ACTON	IDFD	YES	CUST ACT, /DEACT ACT = "Y"
ACUSE	LSACFD	YES	None
AD1CH	SCFD	YES	SC = "SC1" and SCC = "Y"
AD1USE	SCFD	YES	SC = "SC1"
AD2CH	SCFD	YES	SC = "SC2" and SCC = "Y"
AD2USE	SCFD	YES	SC = "SC2"
AIUSE	-	/*	None
ALTACT	ACCTFD	YES	PARM ACT TYPE = "CODE"
ALTACT	ATHFD	YES	CHG FCOS = "Y"
ANSBACK	PUOFD	NO	INITIATE = "ANSBACK"
AQCUSE	-	/*	None
ARCANC	LSARFD	YES	None
ARSCP	ARSFD	YES	CHANGE ACTIVE PATTERN GROUP= "Y"
ARSDCT	ARSFD	YES	DACT TYPE= "CODE"
ARSUSE	ARSFD	YES	None
ARS1USE	ARSFD	YES	None
ARS2USE	ARSFD	YES	None
ARUSE	LSARFD	YES	None
ASITOG	ASIFD	YES	IMP ACC="Y"
ASIUSE	ASIFD	YES	EXP ACC="Y"
ASPDNC	ASPFD	YES	CONTROL="ORIG"
ASPDNC	IDFD	YES	FEATURE must be /ID*
ASPNORM	ASPFD	YES	CONTROL="ORIG"
ASPNORM	IDFD	YES	FEATURE must be /ID*
ASPVAR	ASPFD	YES	CONTROL="ORIG"
ASPVAR	IDFD	YES	FEATURE must be /ID*
ATACTMWI	-	/*	None
ATDCTMWI	-	/*	None
ATFACT	ACVTFD	YES	CONTROL = "ORIG"
ATFDCT	ACVTFD	YES	CONTROL = "ORIG"
ATGACT	ACVTFD	YES	CONTROL = "ORIG"
ATGDCT	ACVTFD	YES	CONTROL = "ORIG"
ATHACT	ATHFD	YES	ACT TYPE = "CODE"
ATHDCT	ATHFD	YES	DACT TYPE = "CODE"
ATHINS	ATHFD	YES	CHANGE ATH FIRST = "Y"
ATHNRQ	ATHFD	YES	None
ATHOOS	ATHFD	YES	CHANGE ATH FIRST = "Y"
ATHREQ	ATHFD	YES	None
ATHUSE	ATHFD	YES	None
AUCUSE	-	/*	None
BBTLUSE	-	/*	None
BPARK	PUOFD	NO	INITIATE = "BPARK"
BTLUSE	-	/*	None
CCL	PUOFD	Not /PO*	INITIATE = "CDCAL"
CFDATCH	CFWFD	Not /CF*	CHANGE DON'T ANSWER TIMING = "Y"
CFDCT	CFWFD	/CF* only	FEATURE must be /CF*
CFDNCH	CFWFD	Not /CF*	CHANGE FWD TO DN = "Y"
CFVACT	CFWFD	/CF* only	FEATURE must be /CF*
CFVDCT	CFWFD	/CF* only	FEATURE must be /CF*
CLOFF	-	/*	None
CLON	-	/*	None
CLWCUSE	MSFD	YES	LW CALLING != "NONE"
CNDACT	LIDFD	YES	None
CNDDCT	LIDFD	YES	None
CNPUSE	DISPFD	/DI*	TN PRIVACY = "Y"
COTUSE	LSCOTFD	YES	None
CPQ1	PUOFD	YES	NUMBER OF PICKUP GROUPS = 1, 2, 3 or 4
CPQ2	PUOFD	YES	NUMBER OF PICKUP GROUPS = 2, 3 or 4
CPQ3	PUOFD	YES	NUMBER OF PICKUP GROUPS = 3 or 4
CPQ4	PUOFD	YES	NUMBER OF PICKUP GROUPS = 4
CSACT	CFWFD	/CF* only	FEATURE must be /CF*
CSDCT	CFWFD	/CF* only	FEATURE must be /CF*
CTT	PFAFD	/PF*only	FEATURE must be /PF*
CWDLU	CWTFD	YES	INVOCATION = "CODE"

CWOACT	CWTFD	/CW* only	FEATURE must be /CW*
CWODCT	CWTFD	/CW* only	FEATURE must be /CW*
CWTACT	CWTFD	/CW* only	FEATURE must be /CW*
CWTDCT	CWTFD	/CW* only	FEATURE must be /CW*
CWXCH	CWTFD	Not /CW*	CHANGE CDPTY TONE INTERVAL? = "Y"
DALTACT	ATHFD	YES	CHG FCOS = "Y"
DARSCP	ARSFD	YES	CHANGE ACTIVE PATTERN GROUP = "Y"
DBDACT	CFWFD	/CF* only	FEATURE must be /CF*
DBDDCT	CFWFD	/CF* only	FEATURE must be /CF*
DCTCPNBN	CPNBNFD	YES	DEACT = "CODE"
DCTMWI	MSFD	YES	AUD MSG WAIT IND = "Y" or VIS MSG WAIT IND = "Y"
DFRLALT	ARSFD	YES	CHG ALT FRL = "Y"
DGPACT	ARSFD	YES	GROUP ACT TYPE = "CODE"
DGPDCT	ARSFD	YES	GROUP DACT TYPE = "CODE"
DMAINACT	ATHFD	YES	CHG FCOS = "Y"
DNPUSE	DISPFD	YES	TN PRIVACY = "Y"
DPARK	PUOFD	NO	INITIATE = "DPARK"
DPN	PUOFD	Not /PO*	(INITIATE = "IDPUDL" or "IPREDN") and BARGE IN = "N"
DPU	PUOFD	Not /PO*	(INITIATE = "IDPUDL" or "IPREDN") and BARGE IN = "Y"
DRPCH	DRFD	Not /DR*	CHANGE RINGING PATTERN = "Y"
DTONE	PPFD	YES	None
DTPOTSA	IDFD	YES	None
EMER	IDFD	YES	None
EMUSE	-	/*	None
FRLALT	ARSFD	YES	CHG ALT FRL = "Y"
FRLDMAIN	ARSFD	YES	CHG ALT FRL = "Y"
FRLMAIN	ARSFD	YES	CHG ALT FRL = "Y"
FTACT	ACVTFD	Not /AT*	ACT TYPE = "CODE"
FTACT	CFWFD	Not /CF*	ACT TYPE != "AUTO"
FTACT	CWTFD	Not /CW*	ACT TYPE = "CODE"
FTACT	DRFD	Not /DR*	DACT TYPE = "CODE"
FTACT	MWFD	Not /MW*	ACT/INACT OPTION = "ACT1CA" or "CUSTSEL"
FTACT	PFAFD	Not /PF*	None
FTACT	PUOFD	Not /PO*	ACT TYPE = "CODE"
FTACT	PUTFD	See NOTE 1 below.	ACT TYPE = "CODE"
FTDCT	ACVTFD	Not /AT*	DACT TYPE = "CODE"
FTDCT	CFWFD	Not /CF*	DACT TYPE != "NONE" or "AUTO"
FTDCT	CWTFD	Not /CW*	DACT TYPE = "CODE"
FTDCT	DRFD	Not /DR*	DACT TYPE = "CODE"
FTDCT	MWFD	Not /MW*	ACT/INACT OPTION = "CUSTSEL" or "INACT1CA"
FTDCT	PFAFD	Not /PF*	None
FTDCT	PUOFD	Not /PO*	DACT TYPE = "CODE"
FTDCT	PUTFD	See NOTE 1 below.	DACT TYPE = "CODE"
GPACT	ACVTFD	YES	ACT TYPE = "CODE" and ACVTGRPNAM known
GPACT	ARSFD	YES	GROUP ACT TYPE = "CODE"
GPACT	IDFD	YES	CUST ACT/DEACT IDP = "Y"
GPDCT	ACVTFD	YES	GROUP DACT TYPE = "CODE" and ACVT GRP known
GPDCT	ARSFD	YES	GROUP DACT TYPE = "CODE"
GPDCT	IDFD	YES	CUST ACT, /DEACT IDP = "Y"
GRPCARCH	IDFD	YES	GPIC CUST CHANGEABLE = "Y"
HIRINGA	HIFD	YES	SEL ICM DIAL = "Y"
HIRINGB	HIFD	YES	SEL ICM DIAL = "Y" or ICM CODE DIAL = "Y"
HIRINGC	HIFD	YES	SEL ICM DIAL = "Y"
HIRINGG	HIFD	YES	SEL ICM DIAL = "Y"
HIDHOLD	HIFD	YES	DIAL HOLD = "Y"
IBSYVFY	PUOFD	Not /PO*	INITIATE = "BSYVFY"
ICMUSE	IDFD	YES	None
ICTT	PFAFD	/PF* only	FEATURE must be /PF*
IDNACT	ACVTFD	YES	None
IDPASP	IDFD	YES	None
IDPPVN	IDFD	YES	None
IEMEROVR	PUOFD	Not /PO*	INITIATE = "EMEROVR"
IGACT	ACVTFD	YES	None
INSUSE	DISPFD	YES	INSPECT = "Y"

LDNDCT	CFWFD	Not /CF*	DACT TYPE != "NONE", "KEY" or "AUTO"
LSP	PUOFD	Not /PO*	INITIATE = "LDSPKPG"
LSFSYM	LSCAFD	YES	None
LSFSYM	LSCFFD	YES	None
LSFSYM	LSCRFD	YES	None
LSFSYM	LSDAFD	YES	None
LSFSYM	LSCARFD	YES	None
LSFNOSYM	LSCAFD	YES	None
LSFNOSYM	LSCFFD	YES	None
LSFNOSYM	LSCRFD	YES	None
LSFNOSYM	LSDAFD	YES	None
LSFNOSYM	LSCARFD	YES	None
LWCUSE	MSFD	YES	LW CALLING = "OUT" or "INOUT"
MAINACT	ACCTFD	YES	PARM ACT TYPE = "CODE"
MAINACT	ATHFD	YES	CHG FCOS = "Y"
MDRACT	MDRFD	YES	ACT TYPE = "CODE"
MDRDCT	MDRFD	YES	DACT TYPE = "CODE"
MDROFF	MDRFD	YES	GRP CHANGE ALLOWED? = "Y"
MDRON	MDRFD	YES	GRP CHANGE ALLOWED? = "Y"
MEOFF	-	/*	None
MEON	-	/*	None
MWITD	MWFD	Not /MW*	DIAL CODE OR BUTTON = "Y"
MWSOH	MWFD	Not /MW*	IN MIDDLE = "Y" or OFF HOOK = "Y" or MULTIWAY CONTROL = "CODEALT"
MWSPL	MWFD	Not /MW*	SPLIT LAST PTY = "Y"
NNPRV	DISPFD	/DI*	TN PRIVACY = "Y"
NNPUB	DISPFD	/DI*	TN PRIVACY = "Y"
NTPOTSA	IDFD	YES	None
PDTEO	PPFD	YES	None
PDTF	PPFD	YES	None
PDTFO	PPFD	YES	None
PDTI	PPFD	YES	None
PDTP	PPFD	YES	None
PDTR	PPFD	YES	None
PDTRC	PPFD	YES	None
PFUSE	PFAFD	NO	None
PODUSE	MSFD	YES	PRINT ON DEMAND = "Y"
PP1AREA	PPFD	YES	AREA1 CDI is known
PP2AREA	PPFD	YES	AREA2 CDI is known
PP3AREA	PPFD	YES	AREA3 CDI is known
PP4AREA	PPFD	YES	AREA4 CDI is known
PP5AREA	PPFD	YES	AREA5 CDI is known
PNTEO	PPFD	YES	None
PNTF	PPFD	YES	None
PNTFO	PPFD	YES	None
PNTI	PPFD	YES	None
PNTP	PPFD	YES	None
PNTR	PPFD	YES	None
PNTRC	PPFD	YES	None
PO	IDFD	YES	None
POF	IDFD	YES	None
POFO	IDFD	YES	None
POI	IDFD	YES	None
POP	IDFD	YES	None
PRCD	PPFD	YES	None
RBQCAN	QUFD	/QU* only	FEATURE must be /QU*
RBQVFY	QUFD	/QU* only	FEATURE must be /QU*
RTRV	PUOFD	NO	INITIATE = "RTRV"
SAUSE	-	/*	None
SDNUSE	-	/*	None
SELnXFER (n = 1 to 6)	-	/*	None
SPCAR	IDFD	YES	None
SP4CAR	IDFD	YES	None
SRGACT	SRFD	NO	None
SRGDCT	SRFD	NO	None
SRGSYM	SRFD	NO	None
SRGNOSYM	SRFD	NO	None

TD1PAD	TODFD	YES	ADD 1 PARM CODE = "Y"
TDACT	TODFD	YES	CUSTOMER ACTIVATION = "Y"
TDADZP	TODFD	YES	ADD 0 PARM CODE = "Y"
TDATCH	TODFD	YES	CHANGE ACTION TIME = "Y"
TDDALL	TODFD	YES	DELETE ALL LISTS = "Y"
TDDCT	TODFD	YES	CUSTOMER ACTIVATION = "Y"
TDDEL1P	TODFD	YES	DEL 1 PARM CODE = "Y"
TDOWCH	TODFD	YES	CHANGE OWS = "Y"
TDZPDEL	TODFD	YES	DELETE 0 PARM CODE = "Y"
TGACT	TGSRFD	YES	ACT TYPE = "CODE"
TGDCT	TGSRFD	YES	DACT TYPE = "CODE"
UCRACT	-	/*	None
UCRDCT	-	/*	None

Note 1: This feature definition form cannot have a wild-card feature.

Figure 1 IDP ACTIONS AND THEIR FEATURE DEFINITION FORM DEPENDENCIES

```
idpdca                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5601-1/2)                IDP DIALED CODE ASSIGNMENT

*1. IDP GRP    ________      10. DPAT 1 TO 8   ________
*2. INC DIGITS __________    11. DPAT 9 TO 16  ________
 3. STATE      NORMAL        12. DPAT 17 TO 24 ________
 4. ACTION     ________      13. DPAT 25 TO 32 ________
 5. FEATURE    ________
 6. REM DIGS   __
 7. ACT SET    __
 8. ICM RANGE  ___
 9. TRIG NBR   ___
```

```
idpdca                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5601-1/2)                IDP DIALED CODE ASSIGNMENT

                  16. CONFLICT RESOLUTION LIST (CONFRES.C)

    REM                    ACT ICM   TRIG DPAT     DPAT     DPAT     DPAT
ROW DIGS ACTION   FEATURE  SET RANGE NBR  1 TO 8   9 TO 16  17 TO 24 25 TO 32
 1   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 2   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 3   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 4   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 5   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 6   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 7   __  ________ ________ __   ___  ___  ________ ________ ________ ________
 8   __  ________ ________ __   ___  ___  ________ ________ ________ ________
```

Figure 2 SAMPLE IDPDCA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 2C: 5601-3 RECORD
INDIVIDUALIZED DIALING PLAN
ALTERNATE CODE TREATMENT FORM - IDPACT

1. GENERAL

The 5601-3 Record is available with the 5E2 and later Software Releases. It is used to define A.C.T.s (Alternate Code Treatments) associated with IDPs (Individualized Dialing Plans). An Alternate Code Treatment allows customers to provide different treatments to specified IDP codes at certain times. This is accomplished by associating a valid IDP dialed code with an A.C.T. set. Each A.C.T. set is associated with an on/off indicator. When the indicator is off, normal treatment is given when a line (or trunk) dials a code assigned to that A.C.T. set. If a line or trunk dials a code in a set with the indicator on, the Alternate Code Treatment is given.

The on/off indicator is set (or unset) either by customer dial access to an appropriate code in the IDP or by a key. See the FTRKEY form (5613 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IDP GROUP NAME

Description: Enter the IDP Group Name.

Required Field.
Valid Entries: 1 - 8 characters

2.3 * A.C.T. SET

Description: Enter the Alternate Code Treatment set number.

Required Field.
Valid Entries: 1 - 32

2.4 ACTIVE?

Description: Will Alternate Code Treatment be active when the database is initially installed in the 5ESS Switch?

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

2.5 TREATMENT

Description: Specify the treatment to be given when A.C.T. is active.

Required Field.
Default: TONE
Valid Entries:

Valid TREATMENT Entries

Entry	Definition
ANNC	When A.C.T. is active, the call will be sent to anannouncement as specified by the Fixed Route Type of "ACT"on the FIXRT Form (5301-1 Record).
RERTE	When A.C.T. is active, the call will be sent to aDirectory Number as specified in the REROUTE TO DN field below.
TONE	When A.C.T. is active, the call will be given reorder tone.

2.6 REROUTE TO DN

Description: If the TREATMENT is "RERTE", enter the Directory Number the call is to be re-routed to. If the TREATMENT is other than "RERTE", leave this field blank. The digits entered will be interpreted by the IDPDCA Form (5601-1/2 Record).
Valid Entries: Up to 32 digits (0 - 9, * and #)

```
idpact                          5ESS Switch          _
(5601-3)                  OFFICE DATA ADMINISTRATION
                         IDP ALTERNATE CODE TREATMENT


* 1. IDP GROUP NAME          AJAX
* 2. A.C.T. SET              01
  3. ACTIVE?                 N
  4. TREATMENT               TONE
  5. REROUTE TO DN           ________________________________
```

Figure 1 SAMPLE IDPACT FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2D: 5601-4 RECORD
INDIVIDUALIZED DIALING PLAN GROUP DEFINITION FORM - IDPGP

1. GENERAL

The 5601-4 Record is available with the 5E2 and later Software Releases, and defines the options associated with IDPs (Individualized Dialing Plans).

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.10.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IDP GROUP NAME

Description: Enter the IDP group name.
Valid Entries: 1 - 8 characters

2.3 REMARK

Description: Enter an optional descriptive comment.
Valid Entries: up to 32 characters

2.4 IDP ACTIVE?

Description: Is the IDP initially active?

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

2.5 A.C.T. ALLOWED?

Description: Is Alternate Code Treatment allowed?

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

Data Rules:

If A.C.T. is allowed, an IDPACT form (5601-3 Record) must be completed for the IDP and two codes must be defined on the IDPDCA form (5601 -1/2 Record), or a key must be defined on the FTRKEY form (5613 Record), to allow for A.C.T. activation and deactivation.

2.6 DPAT ALLOWED?

Description: Is Dialing Plan Access Treatment allowed?

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

Data Rules:

If the value for DPAT ALLOWED? is "Y", the DPAT CATEGORY must be entered on the IDFD forms (5601 Record) and IDPTPA forms (5601-8 Record) assigned this IDP GROUP NAME.

2.7 GPIC

Description: Enter the Group Pre-subscribed InterLATA Carrier for the IDP group. The GPIC is used as the InterLATA Carrier whenever a line (or trunk) assigned to this IDP originates and the line does not have a Line Primary Carrier and does not dial the carrier number.
Valid Entries:
  For 5E8 and earlier: 0 - 999
  For 5E9(1) and later: 0 - 9999

Data Rules:

If GPIC is known, it must equal CARRIER ID on an ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must equal "D".

2.8 GROUP PTC

Description: The GROUP PTC field is used to specify the group presubscribed intra-LATA toll carrier identification number. This field supports the Intra-LATA PIC Capability Special Feature, for more information on this feature see Division 2, Section 4A149.

Software Release: 5E9(1) and later.
Valid Entries: 0 - 9999 or leave blank

For 5E12 and later, when the GROUP PTC field on the IDPGP form has been entered, the GROUP PTC must be entered as a CARRIER ID on the ICF form with FEAT GRP equal to "D".

2.9 GROUP PLC

Description: The GROUP PLC field is used to specify the group PLC (Presubscribed Local Carrier) code.

Software Release: 5E12 and later
Valid Entries: Blank or 0-9999

Data Rules:

When GROUP UNBUNDLED is "Y", GROUP PLC must be entered.

GROUP PLC on the following IDPGP forms must be defined as CARRIER ID on the ICF form with FEAT GRP equal to "D".

2.10 GROUP UNBUNDLED

Description: Has this group been unbundled from the LEC?

Software Release: 5E12 and later
Default: N
Valid Entries: Y, N

Data Rules:

When GROUP UNBUNDLED is "Y", GROUP PLC must be entered.

2.11 STANDARD ERROR TREATMENT

Description: Enter the treatment to be given an origination dialing an invalid IDP code.

Required Field.
Default: TONE
Valid Entries:

Valid STANDARD ERROR TREATMENT Entries

Entry	Definition
ANNC	The call is sent to an announcement as specified by the FIXED ROUTE TYPE of "IDPERR" on the FIXRT form (5301-1 Record).
RERTE	The call is sent to a Directory Number as specified in the ERROR REROUTE TO DN field below.
TONE	The call is given reorder tone.
USEOFFC	The digits dialed are reinterrupted using the ODP (Office Dialing Plan) and the call is treated accordingly. If the call is originated by a line assigned to this IDP Group, the ODP consists of PDIT and LDIT. If the call is originating from a trunk assigned to this IDP Group, the DAS specification on the Trunk Group determines an INDIT or PDIT and an LDIT.

2.12 ERROR REROUTE TO DN

Description: Enter a Telephone Number. The digits entered are interpreted by the IDPDCA form.
Valid Entries: up to 32 digits, 0 - 9, * and #

Data Rules:

An entry in this field is allowed only if the STANDARD ERROR TREATMENT is "RERTE".

2.13 DPAT TREATMENT

Description: Enter the treatment to be given an origination with a disallowed DPAT code.

Valid DPAT TREATMENT Entries

Entry	Definition
ANNC	The call is sent to an announcement as specified by the FIXED ROUTE TYPE of "DPAT" on the FIXRT form.
RERTE	The call is sent to a Directory Number as specified in the DPAT REROUTE TO DN field below.
TONE	The call is given reorder tone.

Data Rules:

An entry in this field is allowed only if DPAT ALLOWED is "Y".

2.14 DPAT REROUTE TO DN

Description: Enter a Telephone Number. The digits entered are interpreted by the IDPDCA form.
Valid Entries: up to 32 digits, 0 - 9, *, and #

Data Rules:

An entry in this field is allowed only if the DPAT TREATMENT is "RERTE".

2.15 SLE SYMBOL

Description: Enter the symbols allowed as part of an extension during a LASS Screen List Editing session or Forward to DN.

Software Release: 5E6 and later
Required Field.
Default: NONE
Valid Entries:

Valid SLE SYMBOL Entries

Entry	Definition
"*"(space)	Only an "*" may be used as part of an extension or Forward to DN.
"#"(space)	Only a "#" may be used as part of an extension or Forward To DN.
"*#"	Both an "*" and a "#" may be used as part of an extension or Forward To DN.
NONE	Neither "*" or "#" may be used as part of an extension or Forward To DN.

2.16 CF DT POTS

Description: Should a dial tone be returned following entry of an "escape to POTS" dial code during an entry of the Forward to DN on a Call Forward activation?

The escape to POTS dial code is defined by entering an ACTION of "DTPOTSA" on the IDPDCA form.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

2.17 ESC TO POTS

Description: Enter the dial code used to escape to POTS. When an ISDN Standard CPE (Customer Premises Equipment) terminal originates a POTS call via functional addressing, the switch software will prefix this ESC TO POTS code to the (called) address digits. The code must be the same as the escape to POTS code defined in the IDP (data rule below). ESC TO POTS applies only to Standard BRI users (DSL CLS is "STD" on the DSL form).

Software Release: 5E8 and later
Valid Entries: 3 digits; first digit may be "*" or "#"

Data Rules:

The entry must be defined as INC DIGITS for the IDP GRP on an IDPDCA form with a STATE of "NORMAL" and ACTION of "DTPOTSA"; or if the STATE is "CONFLCT" then there must be one entry in the CONFLICT RESOLUTION LIST where REM DIGS is 0 and ACTION is "DTPOTSA". The FEATURE field or the CONFLICT RESOLUTION LIST FEATURE field must have an IDP feature defined on the IDPFD form.

```
                             IDP GROUP DEFINITION

* 1. IDP GROUP NAME      ________                         13. CF DT POTS  N
  2. REMARK              ________________________________ 14. ESC TO POTS ___
  3. IDP ACTIVE?         Y
  4. A.C.T. ALLOWED?     N
  5. DPAT ALLOWED        N
  6. GPIC                ____
  7. GROUP PTC           ____
  8. STANDARD TREATMENT  TONE
  9. ERROR REROUTE TO DN ________________________________
 10. DPAT TREATMENT      _____
 11. DPAT REROUTE TO DN  ________________________________
 12. SLE SYMBOL          NONE
```

Figure 1 SAMPLE IDPGP FORM 5E10 AND 5E11 SOFTWARE RELEASES

```
idpgp                             5ESS Switch
SCREEN 1 OF 2            OFFICE DATA ADMINISTRATION
(5601-4)                    IDP GROUP DEFINITION

*1. IDP GROUP NAME     ________
 2. REMARK             ________________________________
 3. IDP ACTIVE?        Y
 4. A.C.T. ALLOWED?    N
 5. DPAT ALLOWED       N
 6. GPIC               ____
 7. GROUP PTC          ____
 8. GROUP PLC          ____
 9. GROUP UNBUNDLED    N
10. STANDARD TREATMENT TONE

11. ERROR REROUTE TO DN ________________________________
```

```
idpgp                             5ESS Switch
SCREEN 2 OF 2            OFFICE DATA ADMINISTRATION
(5601-4)                    IDP GROUP DEFINITION

12. DPAT TREATMENT _____
```

```
13. DPAT REROUTE TO DN ________________________________
    14. SLE SYMBOL  NONE
    15. CF DT POTS  N
    16. ESC TO POTS ___
```

Figure 2 SAMPLE IDPGP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 2E: 5601-5 RECORD
INDIVIDUALIZED DIALING PLAN
INTERCOM RANGE FORM - IDPICM

1. GENERAL

The 5601-5 Record is available with the 5E2 and later Software Releases. It is used to define the intercom ranges associated with IDPs (Individualized Dialing Plans). Intercom dialing allows a customer to have a shortened dialing sequence, typically to reach a group of destination Telephone Numbers with common leading digits.

When a customer dials a code within an intercom range, the switch determines the intercom range and the appropriate number of digits are deleted, and then the appropriate digits are prefixed (as defined on this form). The transformed number is then interpreted by either the IDP or the Office Dialing Plan as if it had actually been dialed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IDP GROUP NAME

Description: Enter the IDP Group Name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The IDP group whose name is entered here must be defined on the IDPGP form (5601-4 Record) and one or more IDPDCA forms (5601-1/2 Records).

2.3 * INTERCOM RANGE ID

Description: Enter a number to identify the intercom range. The intercom range defined on this form may be entered on the IDPDCA form for the appropriate dialed codes.

Required Field.
Valid Entries: 1 - 512

2.4 USE OFFICE DIALING PLAN?

Description: Is the reconstructed code to be interpreted by the ODP (Office Dialing Plan)? if "N" is entered, the IDP will be used.

Required Field.

Default: Y
Valid Entries: Y, N

2.5 NUMBER OF DIGITS TO DELETE

Description: Enter the number of digits to delete from the dialed digits. No entry is equivalent to 0.
Valid Entries: 0 - 7.

2.6 PREFIXED DIGITS

Description: Enter the digits to be prefixed to the digits remaining after the NUMBER OF DIGITS TO DELETE have been deleted. The resulting reconstructed code will be re-interpreted by either the IDP or the office dialing plan, as appropriate.
Valid Entries: Up to 32 digits (0 - 9, *, #, F, O, I, P), where

- F - Flash
- O - Override flash
- I - Immediate
- P - Priority

```
idpicm                           5ESS Switch              _
(5601-5)                    OFFICE DATA ADMINISTRATION
                                IDP INTERCOM RANGE


* 1. IDP GROUP NAME                 AJAX
* 2. INTERCOM RANGE ID              001
  3. USE OFFICE DIALING PLAN?       Y
  4. NUMBER OF DIGITS TO DELETE      1
  5. PREFIXED DIGITS                5778030
```

Figure 1 SAMPLE IDPICM FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2F: 5601-6 RECORD
IDP LINE (TN) PARAMETER FORM - IDPLPA

1. GENERAL

The 5601-6 Record is available with the 5E2 and later Software Releases. It is used when assigning ID features to non-Multi-Line Hunt lines to assign ID feature parameters to the lines if the default parameters associated with the ID feature are inappropriate or unspecified.

> ***NOTE:*** For 5E6 and later Software Releases, Speed Call parameters are assigned to non-Multi-Line Hunt lines by entering the SCLPA (Speed Call Line Parameter Assignment) form (5627-2 Record) instead of the IDPLPA form (5601-6 Record). To use the SCLPA form instead of the IDPLPA form, see Division 4, Section 27B.

If an IDPLPA form is entered for any given line, then all entries on that form will be used for the line instead of the default parameters entered on the corresponding IDFD form (5601-a/b Record).

For 5E5 and earlier Software Releases, when an ID feature associated exclusively with Abbreviated Dialing (i.e., an ID feature without an Individualized Dialing Plan) is assigned to a line with unshared Abbreviated Dialing only, this form need not be entered. The unshared AD List name will be the letter "A" followed by the 7-digit Telephone Number of the line.

For 5E5 and earlier Software Releases, when assigning Individualized Dialing features (defined with an IDP Group) to lines, the options AD1 and AD2 must be considered. For example, if a line is assigned an ID feature which has been defined with AD1 equal to "Y", then that line will be assigned a 1-digit Abbreviated Dialing list either through explicit translations or by default. If the default parameter entries for the 1-digit list are not entered on the IDFD form (5601-a/b Record) nor on this IDPLPA form, the list will be assumed to be unshared.

Therefore, the specific Abbreviated Dialing requirements for the line must be defined on the IDFD form. If a line is not to have 1-digit Abbreviated Dialing, then the Individualized Dialing feature assigned to the line must be defined with AD1 equal to "N".

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.26.

2. FORM ENTRIES, 5E5 AND EARLIER SOFTWARE RELEASES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the line.

Required Field.
Valid Entries:

For 5E5 and earlier: 7 digits

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following:

Class of Service

Entry	**Definition**
ATND	50B Non-data Link Console Line or Attendant Line.
INDIV	Individual Line.
HOTMOTL	Line with hotel/motel feature.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
TWOPTY	Two-Party Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.

2.3 * ID FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form.

2.4 IDP GROUP NAME

Description: Enter the name of an Individualized Dialing Plan group which this line will use, if any.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP GROUP defined on the IDPGP form and one or more IDPDCA forms.

2.5 DPAT CATEGORY

Description: If an IDP GROUP NAME is specified, and DPAT is allowed on the IDP GROUP (as specified on the IDPGP form), then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

If this field is entered and the line is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to "Y".

An entry is prohibited in this field if the IDP GROUP is unspecified or an IDP GROUP is specified but DPAT is not allowed on the IDP GROUP.

ABBREVIATED DIAL LIST 1

The following fields (Section 2.6 - Section 2.7) define a 1-digit Abbreviated Dialing list.

2.6 LIST NAME

Description: If the line subscribes to unshared 1-digit Abbreviated Dialing (Speed Calling), leave this field blank and enter N in the SHARED field. The name assigned to the list will automatically be set to the letter "A" followed by the seven-digit Telephone Number of the line. If the line subscribes to a shared list, enter a 1-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 0001 to 2000 and the second four digits are in the range 0000 to 2047.
Valid Entries: 1 - 8 characters

2.7 SHARED?

Description: Is the 1-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

ABBREVIATED DIAL LIST 2

The following fields (Section 2.8 - Section 2.9) define a 2-digit Abbreviated Dialing list.

2.8 LIST NAME

Description: If the line subscribes to unshared 2-digit Abbreviated Dialing (Speed Calling), leave this field blank and enter "N" in the SHARED field. The name assigned to the list will automatically be set to the letter "A" followed by the seven-digit Telephone Number of the line. If the line subscribes to a shared list, enter a 2-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 0001 to 2000 and the second four digits are in the range 0000 to 2047.
Valid Entries: 1 - 8 characters

2.9 SHARED?

Description: Is the 2-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

2.10 ICR SFG

Description: Enter an Intercom Calling Restriction Simulated Facility Group number.
Valid Entries: 1 - 2000

Data Rules:

If an ICR SFG is entered, then an IDP GROUP NAME must be entered. The ICR SFG must also be defined on the PFASFG form.

3. FORM ENTRIES, 5E6 AND LATER SOFTWARE RELEASES

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 * TN

Description: Enter the seven-digit Telephone Number of the line.

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:

The associated Class of Service on the LCC form (5306 Record) must be one of the following:

Class of Service	
Entry	**Definition**
ATND	50B Non-data Link Console Line or Attendant Line.
HOTMOTL	Software Release: 5E6 and earlier. Line with hotel/motel feature.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
MODEM	Software Release: 5E7 and later. Packet Switching Modem Pooling.
PBX	Line to a PBX.
TWOPTY	Two-Party Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.

For 5E12 and later, TN/FEATURE combinations on different IDPLPA forms cannot be duplicated.

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

3.3 * FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form.

3.4 # IDP GROUP NAME

Description: Enter the name of an Individualized Dialing Plan group which this line will use, if any.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP GROUP defined on the IDPGP form and one or more IDPDCA forms.

3.5 DPAT CATEGORY

Description: If DPAT is allowed on the IDP GROUP (as specified on the IDPGP form), then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

An entry is prohibited in this field if DPAT is not allowed on the IDP GROUP.

If this field is entered and the line is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to "Y".

3.6 ICR SFG

Description: Enter an Intercom Calling Restriction Simulated Facility Group number.
Valid Entries: 1 - 2000

Data Rules:

If an ICR SFG is entered, then an IDP GROUP NAME must be entered. The ICR SFG must also be defined on the PFASFG form.

```
                                   5ESS Switch
idplpa                        OFFICE DATA ADMINISTRATION
(5601-6)         INDIVIDUAL DIALING PLAN (TN) LINE PARAMETERS

*1. TN             9791090
*2. FEATURE        ID1

#3. IDP GROUP NAME IDP1
 4. DPAT CATEGORY  01
 5. ICR SFG        0012
```

Figure 1 SAMPLE IDPLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
idplpa                              5ESS Switch          _
                              OFFICE DATA ADMINISTRATION
```

```
(5601-6)         INDIVIDUAL DIALING PLAN (TN) LINE PARAMETERS

*1. TN       __________
*2. FEATURE ________

#3. IDP GROUP NAME ________
 4. DPAT CATEGORY  __
 5. ICR SFG        ____
```

Figure 2 SAMPLE IDPLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 2G: 5601-7 RECORD
IDP LINE (MLHG/TERM) PARAMETER FORM - IDPMPA

1. GENERAL

The 5601-7 Record is used to assign feature ID parameters to Multi-Line Hunt lines when the default parameters associated with the ID feature are inappropriate.

> ***NOTE:*** Speed Call parameters are assigned to Multi-Line Hunt lines by entering the SCMPA (Speed Call MLHG/TERM Line Parameter Assignment) form (5627-3 Record) instead of the IDPMPA form (5601-7 Record). Therefore, ignore all references to Abbreviated Dialing (Speed Call) attributes on the IDPMPA form for 5E6 and later Software Releases. To use the SCMPA form instead of the IDPMPA form, see Division 4, Section 27C.

If an IDPMPA form is entered for any given terminal, then all entries on that form will be used for the terminal instead of the default parameters entered on the corresponding IDFD form (5601-a/b Record).

For 5E5 and earlier Software Releases, when an ID feature associated exclusively with Abbreviated Dialing (i.e., an ID feature without an Individualized Dialing Plan) is assigned to a Multi-Line Hunt line with unshared Abbreviated Dialing only, this form need not be entered. The unshared AD List name will be the letter "A" followed by the 7-digit Telephone Number of the Multi-Line Hunt line. (Multi-Line Hunt lines may subscribe to unshared AD Lists only if they have a Telephone Number.)

For 5E5 and earlier Software Releases, the options AD1 and AD2 must be considered when assigning Individualized Dialing features (defined with an IDP Group) to Multi-Line Hunt lines. For example, if a Multi-Line Hunt line is assigned an ID feature which has been defined with AD1 equal to "Y", then that line will be assigned a 1-digit Abbreviated Dialing list either through explicit translations or by default. If the default parameter entries for the 1-digit list are not entered on the IDFD form (5601-a/b Record), nor on this IDPMPA form, the list will be assumed to be unshared.

Therefore, the specific Abbreviated Dialing requirements for the Multi-Line Hunt line must be defined on the IDFD Form. If a Multi-Line Hunt line is not to have 1-digit Abbreviated Dialing, then the Individualized Dialing feature assigned to the Multi-Line Hunt line must be defined with AD1 equal to "N".

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.26.

2. FORM ENTRIES, 5E5 AND EARLIER SOFTWARE RELEASES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Member number of the line.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
Entry	**Definition**
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
HOTMOTL	Line with hotel/notel feature.
PBX	Line to a PBX.
TWOPTY	Two-Party Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.

2.4 * ID FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form.

2.5 IDP GROUP NAME

Description: Enter the name of the Individualized Dialing Plan Group which this line will use, if any.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP group defined on the IDPGP form and one or more IDPDCA forms.

2.6 DPAT CATEGORY

Description: If an IDP GROUP NAME is specified, and DPAT is allowed on the IDP GROUP (as specified on the IDPGP form) then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

If this field is entered and the line is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to Y.

An entry is prohibited in this field if the IDP GROUP is unspecified, or an IDP GROUP is specified but DPAT is not allowed on the IDP GROUP.

ABBREVIATED DIAL LIST 1

The following fields (Section 2.7 - Section 2.8) define a 1-digit Abbreviated Dialing list.

2.7 LIST NAME

Description: Multi-Line Hunt lines may subscribe to unshared AD lists only if they have a Telephone Number. If this line has a TN and subscribes to unshared 1-digit Abbreviated Dialing (Speed Calling), enter a 1-digit AD List name consisting of the letter "A" followed by the seven-digit Telephone Number assigned to the Multi-Line Hunt line. If the line subscribes to a shared list, enter a 1-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 1 to 2000 and the second four digits are in the range 0 to 2047.
Valid Entries: 1 - 8 characters

2.8 SHARED?

Description: Is the 1-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

ABBREVIATED DIAL LIST 2

The following fields (Section 2.9 - Section 2.10) define a 2-digit Abbreviated Dialing list.

2.9 LIST NAME

Description: Multi-Line Hunt lines may subscribe to unshared AD Lists only if they have a Telephone Number. If this line has a TN and subscribes to unshared 2-digit Abbreviated Dialing (Speed Calling), enter a 2-digit AD List name consisting of the letter "A" followed by the seven-digit Telephone Number assigned to the Multi-Line Hunt line. If the line subscribes to a shared list, enter a 2-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 1 to 2000 and the second four digits are in the range 0 to 2047.
Valid Entries: 1 - 8 characters

2.10 SHARED?

Description: Is the 2-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

2.11 ICR SFG

Description: Enter an Intercom Calling Restriction Simulated Facility Group number.
Valid Entries: 1 - 2000

Data Rules:

If an ICR SFG is entered then an IDP GROUP NAME must be entered. The ICR SFG must also be defined on the PFASFG form.

3. FORM ENTRIES, 5E6 AND LATER SOFTWARE RELEASES

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

3.3 * TERM

Description: Enter the Multi-Line Hunt Group Member number of the line.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service

Entry	Definition
ATND	50B Nondata Link Console Line or Attendant Line.
HOTMOTL	Software Release: 5E6 and earlier. Linewith hotel/motel feature.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
MODEM	Software Release: 5E7 and later. Packet Switching Modem Pooling.
PBX	Line to a PBX.
TWOPTY	Two-Party Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.

3.4 * FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form.

3.5 IDP GROUP NAME

Description: Enter the name of the Individualized Dialing Plan Group which this line will use, if any.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP group defined on the IDPGP form and one or more IDPDCA forms.

3.6 DPAT CATEGORY

Description: If DPAT is allowed on the IDP GROUP (as specified on the IDPGP Form), then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

An entry is prohibited in this field if DPAT is not allowed on the IDP GROUP.

If this field is entered and the line is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to "Y".

3.7 ICR SFG

Description: Enter an Intercom Calling Restriction Simulated Facility Group number.
Valid Entries: 1 - 2000

Data Rules:

If an ICR SFG is entered then an IDP GROUP NAME must be entered. The ICR SFG must also be defined on the PFASFG form.

```
idpmpa                          5ESS Switch           _
(5601-7)                 OFFICE DATA ADMINISTRATION
                      IDP LINE (MLHG/TERM) PARAMETERS

*1. MLHG           0028
*2. TERM           0001
*3. ID FEATURE     ABCCO
 4. IDP GROUP NAME ABC
 5. DPAT CATEGORY  01

 ABBREVIATED DIAL LIST 1:
 6. LIST NAME      COMP
 7. SHARED?        Y
```

```
 ABBREVIATED DIAL LIST 2:
  8. LIST NAME      ________
  9. SHARED?        _

 10. ICR SFG        0024
```

Figure 1 SAMPLE IDPMPA FORM   5E5 SOFTWARE RELEASE

```
                                 5ESS Switch            _
idpmpa                    OFFICE DATA ADMINISTRATION
(5601-7)     INDIVIDUAL DIALING PLAN (MLHG/TERM) LINE PARAMETERS

*1. MLHG           0010
*2. TERM           0021
*3. FEATURE        ID1

 4. IDP GROUP NAME IDP1
 5. DPAT CATEGORY  01
 6. ICR SFG        0014
```

Figure 2 SAMPLE IDPMPA FORM   5E6 AND LATER SOFTWARE RELEASES

SEC. 2H: 5601-8 RECORD
IDP TRUNK PARAMETER FORM - IDPTPA

1. GENERAL

The 5601-8 Record is available with 5E2 and later Software Releases. It is used when assigning ID features to trunks when the default parameters associated with the ID feature are inappropriate.

> ***NOTE:*** For 5E6 and later Software Releases, Speed Call parameters are assigned to trunks by entering an SCTPA (Speed Call Trunk Parameter Assignment) form (5627-4 Record) instead of the IDPTPA form (5601-8 Record). To use the SCTPA form instead of the IDPTPA form, see Division 4, Section 27D.

If an IDPTPA form is entered for any given trunk, all entries on that form will be used for the trunk instead of the default parameters on the corresponding IDFD form (5601-a/b Record).

For 5E5 and earlier Software Releases, when an ID feature associated exclusively with Abbreviated Dialing (i.e., an ID feature without an Individualized Dialing Plan) is assigned to a trunk with unshared Abbreviated Dialing only, this form need not be entered. The unshared AD List name will be the 4-digit Trunk Group Number followed by the 4-digit Member Number.

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.26.

2. FORM ENTRIES, 5E5 AND EARLIER SOFTWARE RELEASES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TRUNK GROUP

Description: Enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:
  For 5E10 and earlier: 1 - 2000
  For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be one of the following.

TRKCLS	
Entry	**Definition**
LTOLLCON	Toll Connecting.
PF	Private Facility.
PFITT	Software Release: 5E3 and later. Private Facility Intertandem Trunk.
PFLASH	Private Facility Feature Flash.
PRINTOLL	Primary Intertoll.
TTOLLCON	Toll Completing.
EDSL	Software Release: 5E8 and later.

	Extended Digital Subscriber Line trunk.
EDSLHM	Software Release: 5E8 and later. EDSL for Hotel/Motel TSPS service.

2.3 * MEMBER

Description: Enter the Trunk Group Member Number of the trunk.

Required Field.
Valid Entries: 0 - 1951.

2.4 * ID FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form (5601-a/b Record).

2.5 IDP GROUP NAME

Description: Enter the name of the Individualized Dialing Plan which this trunk will use, if any.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP defined on the IDPGP form and one or more IDPDCA forms.

2.6 DPAT CATEGORY

Description: If an IDP GROUP NAME is specified, and DPAT is allowed on the IDP GROUP (as specified on the IDPGP form), then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

If this field is entered and the trunk is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to "Y".

An entry is prohibited in this field if the IDP GROUP is unspecified, or an IDP GROUP is specified but DPAT is not allowed on the IDP GROUP.

ABBREVIATED DIAL LIST 1

The following fields (Section 2.7 - Section 2.8) define a 1-digit Abbreviated Dialing list.

2.7 LIST NAME

Description: If the trunk subscribes to unshared 1-digit Abbreviated Dialing (Speed Calling), leave this field blank and enter "N" in the SHARED field. The name assigned to the list will automatically be set to an eight-digit list name consisting of the four-digit Trunk Group Number followed by the four-digit Member

Number. If the trunk subscribes to a shared list, enter a 1-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 1 to 2000 and the second four digits are in the range of 0 to 1951.
Valid Entries: 1 - 8 characters

2.8 SHARED?

Description: Is the 1-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

ABBREVIATED DIAL LIST 2

The following fields (Section 2.9 - Section 2.10) define a 2-digit Abbreviated Dialing list.

2.9 LIST NAME

Description: If the trunk subscribes to unshared 2-digit Abbreviated Dialing (Speed Calling), leave this field blank and enter "N" in the SHARED field. The name assigned to the list will automatically be set to an eight-digit list name consisting of the four-digit Trunk Group Number followed by the four-digit Member Number. If the trunk subscribes to a shared list, enter a 2-digit Abbreviated Dialing List name. A shared list name may be any one- to eight-character name, except the letter "A" followed by seven digits or an eight-digit name where the first four digits are in the range 1 to 2000 and the second four digits are in the range of 0 to 1951.
Valid Entries: 1 - 8 characters

2.10 SHARED?

Description: Is the 2-digit Abbreviated Dialing List to be shared among two or more terminals (lines and/or trunks)?
Valid Entries: Y, N

Data Rules:

A "Y" is required if the LIST NAME was entered.

3. FORM ENTRIES, 5E6 AND LATER SOFTWARE RELEASES

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 * TGN

Description: Enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be one of the following.

TRKCLS

Entry	Definition
LTOLLCON	Toll Connecting.
PF	Private Facility.
PFITT	Software Release: 5E3 and later. Private Facility Intertandem Trunk.
PFLASH	Private Facility Feature Flash.
PRINTOLL	Primary Intertoll.
TTOLLCON	Toll Completing.

3.3 * MEMB

Description: Enter the Trunk Group Member Number of the trunk.

Required Field.
Valid Entries: 0 - 1951

3.4 * FEATURE

Description: Enter the name of the ID feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ID feature defined on the IDFD form (5601-a/b Record).

3.5 # IDP GROUP NAME

Description: Enter the name of the Individualized Dialing Plan which this trunk will use, if any.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an IDP defined on the IDPGP form and one or more IDPDCA forms.

3.6 DPAT CATEGORY

Description: If DPAT is allowed on the IDP GROUP (as specified on the IDPGP form), then enter the Dialing Plan Access Treatment category.
Valid Entries: 1 - 32

Data Rules:

An entry is prohibited in this field if DPAT is not allowed on the IDP GROUP.

If this field is entered and the line is to access a feature via the IDP, then the appropriate character of the DPAT CATEGORIES on the IDPDCA form must be set to "Y".

```
                                  5ESS Switch            _
idptpa                     OFFICE DATA ADMINISTRATION
(5601-8)           INDIVIDUAL DIALING PLAN TRUNK PARAMETERS

*1. TGN            0021
*2. MEMB           1900
*3. FEATURE        ID1

#4. IDP GROUP NAME IDP1
 5. DPAT CATEGORY  22
```

Figure 1 SAMPLE IDPTPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 2I: 5601-9 RECORD
ABBREVIATED DIALING LIST FORM - ADLIST

1. GENERAL

The 5601-9 Record is available with the 5E5 and earlier Software Releases. It is used to reserve memory for Abbreviated Dialing Lists and for assigning stored DNs (Directory Numbers) to Abbreviated Dialing codes.

For 5E6 and later Software Releases, the 5601-9 Record is not available; therefore, use the SCLIST form (5627-5 Record) to assign DNs to Speed Call codes.

When the stored DNs are not known at ODA time, an ID feature has been defined, and this form was not entered for any given AD List, memory will be reserved for the list entries for codes 2 through 7 (1-digit lists) or codes 20 through 49 (2-digit lists).

When the stored DNs are not known at ODA time, no ID feature has been defined, and this form was not entered for any given AD List, memory will be reserved for the list entries for codes 2 through 9 (1-digit lists) or codes 20 through 49 (2-digit lists).

When any forms are submitted for any given AD List, memory will only be reserved for the codes (1-digit) or ten-code blocks (2-digit) which are entered on the forms. Therefore, when any data is submitted for a 1-digit list, for example, extreme care must be taken to enter all eight codes (or more, if desired) even though the stored DNs may not be known for all of the codes. Customer originated changes to the AD Lists will be allowed only for those codes (or ten-code blocks) for which memory has been reserved.

This form may be submitted for shared AD Lists which are not yet assigned to any terminal. However, it may not be submitted for unshared AD Lists which are unassigned. That is, if the SHARED field is "N", one LINEFA or MLHLNFA form must also be submitted for a line with the Telephone Number indicated after the "A" in AD LIST NAME. For trunks, either a TRUNKFA form must be submitted for the indicated Trunk Group and Member Number or a TKGRPFA form must be submitted for the indicated Trunk Group and the indicated Member Number defined on a TRUNK form.

The codes 2 through 9 and 20 through 49 are also provided in PDIT. If other codes are to be used by subscribers in the ODP (Office Dialing Plan), those codes must be added.

If any member of an IDP Group has Abbreviated Dialing options, all codes must be defined in the IDPDCA for that IDP Group.

1.1 Recent Change View

The corresponding Recent Change view for this form is 4.2.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * AD LIST NAME

Description: Enter the Abbreviated Dialing List name. For unshared lists assigned to lines, the AD LIST NAME must be the letter "A" followed by the Telephone Number of the line. For this reason, unshared lists may not be assigned to Multi-Line Hunt lines unless the lines have Telephone Numbers. For unshared lists assigned to a trunk, the AD LIST NAME must be the four-digit Trunk Group Number (0001 to 2000) followed by the four-digit Member Number (0000 to 2047). Shared list names may be any one- to eight-character names except for those allowed for unshared lists.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

AD LIST NAMEs for 1-digit lists must be unique and list names for 2-digit lists must be unique. However, the same name may be used for a 1-digit list as for a 2-digit list.

2.3 * AD CODE BLOCK

Description: For 1-digit AD lists, enter a 0. For 2-digit lists, enter the tens digit of the codes which are entered in the AD CODE fields, followed by a 0. For example, for the ten AD List codes 20 through 29, enter 20 in AD CODE BLOCK. For 2-digits lists, the valid values of the first digit are *, # and 0 to 9.

Required Field.
Valid Entries: 2 digits (See Description.)

2.4 SHARED

Description: Is the list shared?

Required Field.
Valid Entries: Y, N

AD LIST

The Abbreviated Dialing list consists of the followings fields (Section 2.5 - Section 2.6).

2.5 AD CODE

Description: Enter the Abbreviated Dialing code to be dialed. For 1-digit lists, up to twelve codes may be specified (*,# and 0 to 9). Since the characters # and * are cursor control codes for the ODA system, it is necessary to follow each of these characters by a blank (space bar) when entering it into the ODA system. For 2-digit lists, the first digit must be the same as the first digit of the AD CODE BLOCK and only ten codes may be specified with each code's last digit in the range 0 to 9. For 2-digit lists where the AD CODE BLOCK starts with a # or *, do not enter the blank. AD CODEs may not be duplicated in the list.

Caution should be used when defining the AD codes. If a line uses the ODP (Office Dialing Plan) and 0 is used as an AD code, then this subscriber will not be able to reach the operator on a zero-minus call. If a terminal (line or trunk) uses an IDP (Individualized Dialing Plan), care should be taken with codes defined in the IDPDCA. For instance, if 0 is used for attendant access, or 9 is used for escape to POTS, then those codes can not also be used for AD codes.
Valid Entries: 2 digits (See Description.)

2.6 STORED DN

Description: Leave this field blank if the stored DN (Directory Number) is unknown. If the DN is known, enter a string of up to 32 digits which the AD CODE is to access. The digits may be *, # or 0 to 9, or O, F, I and P which are applicable to terminals which are also assigned a Precedence and Preemption feature. See the

PPFD form (5618-1 Record).
Valid Entries: up to 32 digits (0 - 9, *, #, O, F, I, P)

```
adlist                           5ESS Switch               _
(5601-9)                   OFFICE DATA ADMINISTRATION
                            ABBREVIATED DIALING LIST

* 1. AD LIST NAME   AD1AJAX
* 2. AD CODE BLOCK  0
  3. SHARED?        Y
  4. AD LIST:
    row   AD CODE   STORED DN
     1       1      1041
     2       2      1042
     3       3      1043
     4       4      1044
     5       5      1045
     6       6      1046
     7       7      1047
     8       8      1048
     9       *      1049
    10       #      1050
    11       __     ________________________________
    12       __     ________________________________
```

Figure 1 SAMPLE ADLIST FORM 5E5 SOFTWARE RELEASE

SEC. 2J: 5601-10 RECORD
ABBREVIATED DIALING GROUP DATA FORM - ADDATA

This section has been removed from the TG-5.

SEC. 2K: 5601-11 RECORD
IDP REVERSE CODE ASSIGNMENT (INDIVIDUAL DIALING) - IDPRDCA

1. GENERAL

The 5601-11 Record is available with the 5E5 and later Software Releases. It is used to define the reverse codes associated with IDPs (Individualized Dialing Plans).

The IDPRDCA is associated with an IDFD (Individualized Dialing Feature Definition) which has IDP GROUP equal to "Y".

This form is used to assign a reverse intercom range to a public TN in an IDP group. Reverse intercom code assignment allows a customer to convert a 10-digit public TN back to an intercom extension for intra-switch AC invocations.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.27.

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 * IDP GRP

Description: Enter the IDP GRP name. There are no restrictions on the valid characters.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The value entered here must be defined on the IDPGP form (5601-4 Record) as IDP GROUP NAME.

2.3 * DIGITS

Description: Enter the dialed digits to be interpreted. Up to ten digits may be entered in the format of NPA-NXX-XXXX.

Required Field.
Valid Entries: up to 10 digits (0 - 9)

Data Rules:

The digits entered in this field cannot be the beginning substring of another DIGITS field with the same IDP GRP defined on this form.

2.4 # REV ICM RANGE

Description: This field indicates the reverse intercom range.

Required Field.
Valid Entries: 1 - 512

Data Rules:

Any value entered here must be defined on the IDPRICM form (5601-12 Record) with the same IDP GRP defined on this form.

```
idprdca                          5ESS Switch            _
(5601-11)                 OFFICE DATA ADMINISTRATION
                         IDP REVERSE CODE ASSIGNMENT

*1. IDP GRP       IDPGP
*2. DIGITS        3123785592
#3. REV ICM RANGE 010
```

Figure 1 SAMPLE IDPRDCA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 2L: 5601-12 RECORD IDP REVERSE INTERCOM RANGE (INDIVIDUAL DIALING) - IDPRICM

1. GENERAL

The 5601-12 Record is available with the 5E5 and later Software Releases. It is used to define the reverse intercom ranges associated with IDPs (Individualized Dialing Plans). Reverse intercom dialing allows a 10-digit public TN to be converted back to an intercom extension after a LASS (Local Area Signaling Serviced) AC (Automatic Callback) invocation.

When the AC feature is invoked, the switch determines the reverse intercom range, the appropriate number of digits are deleted, and then the appropriate digits are prefixed to reconstruct the extension. The extension is then interpreted by the IDP or ODP (Office Dialing Plan) as if it had actually been dialed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 9.26.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * IDP GRP

Description: Enter the IDP Group Name. There are no restrictions on the valid characters.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The IDP group whose name is entered here must be defined on the IDPGP form and one or more IDPRDCA forms.

2.3 * REV ICM RANGE

Description: This field indicates the reverse intercom range.

Required Field.
Valid Entries: 1 - 512

Data Rules:

The reverse intercom range defined on this form must be entered on the IDPRDCA form (5601-11 Record) for the appropriate codes.

2.4 # NBR DEL DIG

Description: Enter the number of digits to delete.

Required Field.
Default: 0
Valid Entries: 0 - 10

Data Rules:

If NBR DEL DIG is 0, then PRFX DIG must be entered.

2.5 PRFX DIG

Description: Enter the digits to be prefixed to the remaining digits. The resulting reconstructed extension will be re-interpreted by either the IDP or the office dialing plan, as appropriate.
Valid Entries: up to 7 digits (0 - 9, *, and #)

```
idpricm                           5ESS Switch            _
(5601-12)                  OFFICE DATA ADMINISTRATION
                           IDP REVERSE INTERCOM RANGE

*1. IDP GRP       IDPR1
*2. REV ICM RANGE 200
#3. NBR DEL DIG    1
 4. PRFX DIG      _______
```

Figure 1 SAMPLE IDPRICM FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 3: MULTIWAY CALLING FORMS

SEC. 3A: 5602-1/2 RECORD
MULTI-WAY FEATURE DEFINITION FORM - MWFD

1. GENERAL

The 5602-1/2 Record is available with the 5E2 and later Software Releases. The record is used to define many of the Add-On and conferencing features used in other switching systems (e.g., Call Hold, Three-Way Calling, Six-Port Conferencing, and Call Transfer) and replaces the Three-Way Calling feature in earlier 5ESS Software Releases. The 5602-1/2 Record is also used to define how call processing will be affected by customer attempts to flash or disconnect while holding, adding, or transferring calls.

Multi-Way Calling is also used in conjunction with other BRCS features to provide services similar to those existing systems.

There are two basic types of multi-way features - Hold features and Conference features. The Hold features are those constructed with the multi-way control options Hold, Hold and Alternate, and Code and Alternate ("HOLD", "HOLDAT" and "CODEALT", respectively in the MULTIWAY CONTROL field). These features allow a customer to hold an existing call and make another call, and to reconnect to the originally held call.

Each defined feature is given a feature name of from one to eight characters which is used to assign the constructed (defined) feature to lines or trunks. Certain multi-way features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/) and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed multi-way features is contained in Figures 1, 2, 3, and 4.

A terminal (line or trunk) must be assigned a multi-way feature on the appropriate feature assignment form, BFG (5625-1/7 Record), CLUSTR (5600 Record), LINEFA (5112 Record), MLHNFA (5113 Record), TKGRPFA (5206 Record) or TRUNKFA (5205 Record).

1.1 Class of Service

For 5E6 and later, lines assigned a Multiway Calling feature must have an associated Class of Service of "4WINDIV", "INDIV", "ATND", "PBX", "SATSTLN", "ISDN", or "ISATND". That is, when a TN defined on a LINE form or a CKT TN defined on a DSLUSR form is assigned a Multiway Calling feature on a LINEFA, BFG, or associated CLUSTR form, the TN must be assigned an LCC and RAX defined on the LCC form with one of the above classes of service. The same restriction holds for a Multi-Line Hunt Group terminal defined on an MLHLNFA form or a CKT MLHG/TERM defined on a DSLUSR form.

1.2 Feature Assignment Rules

Multi-way features assigned to CKT TNs defined on DSLUSR forms with an associated Class of Service of "ISDN" must have the following fields set to "N": FLASH, IN MIDDLE, OFF HOOK, CALL WAITING, and CALL PICKUP.

Multi-way features assigned to CKT TNs with an associated Class of Service other than "ISDN" must have the following fields set to "N": FEATURE BUTTON, DIAL CODE OR BUTTON, and ISDN CALL PICKUP.

Multi-way features assigned to CKT TNs with an associated Class of Service of "ISATND" must have the following fields set to "N": FLASH, IN MIDDLE, OFF HOOK, CALL WAITING, CALL PICKUP, FEATURE BUTTON, DIAL CODE OR BUTTON, and ISDN CALL PICKUP.

Multi-way features assigned to CKT TNs with an associated Class of Service other than "ISATND" must have the ISDN ATTENDANT field set to "N".

1.3 Preconstructed Feature Changes

A new preconstructed feature, /MWCTIA5, was added for 5E3 and later Software Releases. This was done because the /MWCTIA4 preconstructed feature on the MWFD form has existed in two ways, with MULTIWAY CONTROL equal to "3WAY" or "AUTO3WAY". In 5E7 and later Software Releases, /MWCTIA4 will be standardized to have MULTIWAY CONTROL equal to "3WAY" in all offices. The new preconstructed feature /MWCTIA5 is identical to /MWCTIA4, except that MULTIWAY CONTROL is equal to "AUTO3WAY".

The following outlines the revised retrofit process:

1. During retrofits to 5E4, 5E5 or 5E6, the /MWCTIA4 feature will retain its current MULTIWAY CONTROL value. MULTIWAY CONTROL values of "AUTO3WAY" will remain "AUTO3WAY". MULTIWAY CONTROL values of "3WAY" will remain "3WAY".

2. In 5E3 and later, the /MWCTIA4 feature will have MULTIWAY CONTROL equal to "3WAY" for all new-start offices or for retrofitting offices that have deleted or renamed their original /MWCTIA4 feature.

3. Existing offices can get the /MWCTIA5 feature via application of a BWM. The customer is being asked in 5E3 - 5E6 to use /MWCTIA5 for features that wish to have MULTIWAY CONTROL equal to "AUTO3WAY" so as to minimize impact in 5E7 and 5E8 retrofits.

4. During a retrofit to 5E7 or 5E8, the /MWCTIA4 feature will be standardized. The /MWCTIA4 feature will have MULTIWAY CONTROL set to "3WAY" in all offices. If the /MWCTIA4 feature came in with MULTIWAY CONTROL equal to "AUTO3WAY", then all assignments of the /MWCTIA4 feature will be automatically changed by ODA to /MWCTIA5 to preserve functionality. If /MWCTIA4 came in with MULTIWAY CONTROL equal to "3WAY", then nothing will be changed.

5. An office which previously started with /MWCTIA4 MULTIWAY CONTROL equal to "3WAY", was forced to change MULTIWAY CONTROL to "AUTO3WAY" and had to replace /MWCTIA4 assignments with a new constructed feature with MULTIWAY CONTROL equal to "3WAY" to maintain functionality, may use the ODAOPT form (5523 Record) to "back out" the constructed feature assignments and replace them with the standardized /MWCTIA4 feature.

   The new field MULTIWAY 3WAY CONSTRUCTED FEATURE has been added to the ODAOPT form. This field can be used to specify the name of a constructed feature with MULTIWAY CONTROL equal to "3WAY" that the customer plans to replace with the standardized /MWCTIA4 feature (MULTIWAY CONTROL equal to "3WAY").

   This conversion will not take place automatically. The actual changes must be done manually.

   Two crosschecks will be run using this new field. The first crosscheck will compare the constructed feature to /MWCTIA4 and specify any discrepancies so that the office is assured of maintaining functionality following the change. The second crosscheck will identify all assignments of the constructed feature in the database. Using the output from this crosscheck, the office (or the ODA Project Consultants, at the office's request) can manually change some or all of the assignments of the constructed feature to /MWCTIA4.

Note that this replacement process is manual, not automated. As such, the use of the new MULTIWAY 3WAY CONSTRUCTED FEATURE field and the crosscheck data is optional in all offices. The purpose of the field and crosscheck is to assist offices in "undoing" changes forced on offices during earlier retrofits.

1.4 Recent Change View

The corresponding Recent Change View for this form is 12.19.

2. FORM ENTRIES - 5602-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: Enter the multi-way calling Feature Name.

There are no restrictions on the valid characters, except that Feature Names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed, or inserted.

Required Field.
Valid Entries: 1- 8 characters

Data Rules:

For 5E15 and later, the feature options on the MWFD form define a USSWC (Usage Sensitive Six-Way Calling) feature which cannot be assigned on this form or any of the associated CLUSTR forms (5600 Record). USSWC must be assigned on the OFCOPT form (5509 Record). For more information on the USSWC feature, see Division 2, Section 4A553.

For 5E15 and later, when FEATURE NAME is entered for USSWC (Usage Sensitive Six-Way Calling) features defined on this form where the fields listed are set as follows:

> FEATURE OPTIONS fields: ACT/INACT OPTION is set to "ACT1CA", MULTIWAY CONTROL is set to "NWAY", and AMAC is set to "USAGE",
>
> ***NOTE:*** The MULTIWAY CONTROL and AMAC fields are locked and cannot be changed.
>
> ENTRY POINT fields: FLASH is set to "Y", IN MIDDLE is set to "Y", and OFF HOOK is set to "Y", and
>
> ***NOTE:*** The FLASH, IN MIDDLE, and OFF HOOK fields are locked and cannot be changed.
>
> DEFAULT PARAMETER field: N-WAY MAXIMUM is set to "6",

then:

> the MLHLNFA, CLUSTR, and/or BFG forms (5113, 5600, 5625 Records respectively) cannot have a USSWC feature name entered as these features are not assignable to multiline hunt lines. The USSWC feature must be assigned on the OFCOPT form (5509 Record). (For more information on the USSWC

feature, see Division 2, Section 4A553.)

the LINEFA, CLUSTR, and/or BFG forms (5112, 5600, 5625 Records respectively) cannot have a USSWC feature name entered as these features are not assignable to lines. The USSWC feature must be assigned on the OFCOPT form. (For more information on the USSWC feature, see Division 2, Section 4A553.)

2.3 REMARKS

Description: Enter (optionally) a descriptive comment.
Valid Entries: up to 32 characters

FEATURE OPTIONS

Fields Section 2.4 -Section 2.11 refer to feature options.

2.4 ACT/INACT OPTION

Description: Enter the activation/deactivation type for the feature.

Required Field.
Default: ALWACT
Valid Entries:

Valid ACT/INACT OPTION Entries

Entry	Definition
ACT1CA	When this option is selected, the feature is inactive when assigned to a line. In order to use the feature, the customer dials an activation code for the feature. As soon as the call ends, the feature is automatically deactivated. The activation code is required in either the Office Dialing Plan defined on a PDIT form (5300-2 Record), or the line's Individualized Dialing Plan defined on an IDPDCA form (5601-1/2 Record), with an ACTION of "FTACT" and a FEATURE equal to the FEATURE NAME entered on this form.
ALWACT	When this option is selected, the feature is completely activated when assigned to the line. The only way to deactivate the feature is through a service order request.
CUSTSEL	When this option is selected, the feature is inactive when assigned to a line. A customer can activate and deactivate it by dialing an appropriate activation or deactivation code. The state of activation or deactivation is determined by the last dialed activation or deactivation code (i.e., an active feature remains active until the customer dials the deactivation code, or until the Time-Of-Day feature triggers the deactivation code. The activation code is required in either the Office Dialing Plan (defined on a PDIT form), or the line's Individualized Dialing Plan (defined on an IDPDCA form), with an ACTION of "FTACT", and a FEATURE equal to the FEATURE NAME entered on this form. The deactivation code is similarly required in either the office dialing plan or the line's Individualized Dialing Plan with an ACTION of "FTDCT", and a FEATURE equal to the FEATURE NAME entered on this form.
INACT1CA	When this option is selected, the feature is active when assigned to a line. In order to deactivate the feature, the customer dials a deactivation code for the feature. As soon as the call ends, the feature is automatically reactivated. The deactivation code is required in either the Office Dialing Plan (defined on a PDIT form), or the line's Individualized Dialing Plan (defined on an IDPDCA form), with an ACTION of "FTDCT", and a FEATURE equal to the FEATURE NAME entered on the form.

2.5 MULTIWAY CONTROL

Description: Enter the type of Multi-Way calling feature.

"3WAY" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.

NOTE: See Section 1.3 for details on the correct value of this field for certain preconstructed features.

Default: 3WAY
Valid Entries:

Valid MULTIWAY CONTROL Entries

Entry	Definition
3WAY	Allows the customer to hold and add terminals to a call and to form three-way calls. The controlling terminal of a two-way call (i.e., the terminal with the multi-way feature) uses the same procedure as used in the "HOLD" type call to put the non-controlling terminal on hold and dial a third party. At any time after the controlling terminal receives (audible), it may flash to reconnect the non-controlling terminal of the original call to form a three-way call. If the non-controlling terminal of the original call disconnects after the third party answers but before the three-way call is established, the controlling terminal receives an optional party departure tone. If the controlling terminal disconnects from the three-way call, the other two terminals are also disconnected unless the MULTIWAY TRANSFER is specified as "ALW". NOTE: The third party can be bridged on even if busy tone or reorder was reached by subscribing to the secured feature, Three-Way Reconnect. For 5E5 and later, this feature must be activated by an AT&T System Equipment Engineer on RC View 10.19 in the 5E4(2) Software Release, or on the SFSYS form (5713 Record, RC View 8.22) in 5E5 and later.
AUTO3WAY	Similar to the 3WAY option except the non-controlling terminal of the original call is automatically reconnected when the controlling terminal receives calling terminal treatment (audible, busy tone, etc). Features of this type are normally assigned to 50B CPS and other attendant consoles, but may be assigned to any line.
CODEALT	This option allows the controlling terminal to put the non-controlling terminal of a two-way establishing a connection with the third terminal to flash (getting recall dial tone) and dial a code to reestablish a connection with the original non-controlling terminal. Subsequent flashes by the controlling terminal return recall dial tone and the controlling terminal can dial the code to alternate between the held terminals. The dialed code is required in either the Office Dialing Plan (defined on the PDIT form), or the line's Individualized dialing Plan (defined on the IDPDCA form), with an ACTION of "MWSOH", and a FEATURE equal to the FEATURE NAME entered on this form.
DIRCON	Allows the controlling terminal of a two-way call to flash and automatically form a three-way call with a predesignated third terminal. The predesignated third terminal is changeable only by a service order.
FLSHRPT	Flash repeat.
HOLD	This option allows the controlling terminal of a two-way call to hold the non-controlling terminal by flashing (thereby receiving recall dial tone). After receiving recall dial tone, the controlling terminal can dial the number of a third terminal. If the controlling terminal flashes again after receiving recall dial tone and before dialing of the third party is complete, the call is reconnected to the non-controlling terminal of the original two-way call. If a connection is established between the controlling terminal and the third terminal, the call must be completed and the controlling terminal must disconnect. After disconnect, the system rings the controlling terminal back and on answer, the original two-way call is reestablished. If the non-controlling terminal of the original two-way call disconnects while the controlling terminal and third terminal are connected, the controlling terminal receives an optional party departure tone.

HOLDALT	This option allows the controlling terminal to put the non-controlling terminal of a two-way call on hold, hold a third terminal and while speaking with or awaiting answer from the third terminal to flash to alternate between the original non-controlling terminal and the third terminal. Subsequent flashes by the controlling terminal alternate between the two non-controlling terminals.
HLDALT3W	Software Release: 5E10 and later. Call Waiting Deluxe - Hold call and alternate 3 way. For more information on the Call Waiting Deluxe Secured Feature, see Division 2, Section 4A145
NWAY	Similar to 3WAY except that up to six parties may be included in the call, depending on the value of N-WAY MAXIMUM assigned to the controlling terminal. This option requires 6-port conference circuits be equipped in the office as specified on the EQDSP form (5740 Record).
CODE3WAY	Software Release: 5E4(2) and later. Dial SOCS for 3-Way Calling.
HA3WAY	Software Release: 5E4(2) and later. Hold call and alternate 3-way.

Data Rules:

3WAY - For 5E15 and later:

When MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE" and FLASH is "N":

ACT/INACT OPTION must be "ACT1CA"

IN MIDDLE must be "N" and OFF HOOK must be "Y"

When MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE" and FLASH is "Y":

ACT/INACT OPTION must be "ALWACT"

OFF HOOK must be "N"

When MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE":

MULTIWAY TRANSFER must be "NO"

PS/PD TREATMENT must be "AUTOREST"

DEPARTMENT TONE must be "NONE"

FLASH BEFORE ANS must be "N"

SPLIT LAST PTY must be "N"

CALL WAITING and CALL PICKUP must be "N"

FEATURE BUTTON must be "N"

DIAL CODE OR BUTTON must be "N"

ISDN CALL PICKUP and ISDN ATTENDANT must be "N"

3WAY XFER and HOLD XFER must be "N"

N-WAY MAXIMUM must not be entered

TONE DURATION must not be entered

DIRECT CONNECT DN must not be entered

HOLD must be "ALL"

3WAY must be "ALL"

TRANSFER must be "ALL"

HOLD ORIG PTY Call Types must be "Y"

HOLD ADDED PTY Call Types must be "Y"

3WAY ORIG PTY Call Types must be "Y"

3WAY ADDED PTY Call Types must be "Y"

XFER ORIG PTY Call Types must not be entered

XFER ADDED PTY Call Types must not be entered

XFER PTYS PRES Call Types must not be entered

NWAY PTYS PRES Call Types must not be entered

AUTO3WAY - For 5E4(2) and later, if MULTIWAY CONTROL is "AUTO3WAY", ISDN FEATURE BUTTON, ISDN CALL PICKUP and ISDN DIALED CODE, BUTTON, SPLIT LAST PTY, and the CALL PICKUP ENTRY POINT must be "N".

CODEALT - For 5E4(2) and later, if MULTIWAY CONTROL is "CODEALT", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICKUP, ISDN ATTENDANT, 3WAY XFER, SPLIT LAST PTY, and the CALL PICKUP ENTRY POINT must be "N".

DIRCON - For 5E4(2) and later, if MULTIWAY CONTROL is "DIRCON", ISDN DIALED CODE OR BUTTON, ISDN ATTENDANT, MULTIWAY TRANSFER must be "ALW", SPLIT LAST PTY must "N", and the IN MIDDLE, OFF HOOK, CALL WAITING, and CALL PICKUP ENTRY POINTS must be "N".

When MULTIWAY CONTROL is "DIRCON", the CLASS OF SERVICE on the associated LCC form cannot be "ISATND".

FLSHRPT - For 5E4(2) and later, if MULTIWAY CONTROL is "FLSHRPT", ISDN ATTENDANT, FLASH BEFORE ANS, SPLIT LAST PTY, and the FLASH and ISDN FEATURE BUTTON ENTRY POINTS must be "N".

HOLD - For 5E4(2) and later, if MULTIWAY CONTROL is "HOLD", 3WAY XFER, SPLIT LAST PTY and the CALL PICKUP ENTRY POINT must be "N".

HOLDALT - For 5E4(2) and later, if MULTIWAY CONTROL is "HOLDALT", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICKUP, ISDN ATTENDANT, 3WAY XFER, SPLIT LAST PTY, and the CALL PICKUP ENTRY POINT must be "N".

HLDALT3W - For 5E10 and later, if MULTIWAY CONTROL is "HLDALT3W", CALL WAITING ENTRY POINT must be "Y", the following fields must be "N":

- 3WAY XFER SIGNAL CONTROL
- SPLIT LAST PTY
- CALL PICKUP ENTRY POINT
- FEATURE BUTTON
- DIAL CODE OR BUTTON
- ISDN CALL PICKUP
- ISDN ATTENDANT

NWAY - For 5E4(2) and later, if MULTIWAY CONTROL is "NWAY", HOLD XFER must not be "TONE", and the CALL PICKUP ENTRY POINT must be "N".

For 5E15 and later:

> When MULTIWAY CONTROL is "NWAY", AMAC is "USAGE" and FLASH is "Y", IN MIDDLE and OFF HOOK must be "Y", CALL WAITING, and CALL PICKUP ENTRY POINTS must be "N".
>
> When MULTIWAY CONTROL is "NWAY" and AMAC is "USAGE":
>
>> ACT/INACT OPTION must be "ACT1CA"
>>
>> MULTIWAY TRANSFER must be "NO"
>>
>> PS/PD TREATMENT must be "AUTOREST"
>>
>> DEPARTURE TONE must be "NONE"
>>
>> FLASH BEFORE ANS must be "N"
>>
>> SPLIT LAST PTY must be "Y"
>>
>> CALL WAITING and CALL PICKUP must be "N"
>>
>> FEATURE BUTTON must be "N"
>>
>> DIAL CODE OR BUTTON must be "N"
>>
>> ISDN CALL PICKUP and ISDN ATTENDANT must be "N"
>>
>> 3WAY XFER and HOLD XFER must be "N"
>>
>> N-WAY MAXIMUM must be "6"
>>
>> TONE DURATION must not be entered
>>
>> DIRECT CONNECT DN must not be entered

HOLD must be "ALL"

3WAY must not be entered

TRANSFER must not be entered

HOLD ORIG PTY Call Types must be "Y"

HOLD ADDED PTY Call Types must be "Y"

3WAY ORIG PTY Call Types must not be entered

3WAY ADDED PTY Call Types must not be entered

XFER ORIG PTY Call Types must not be entered

XFER ADDED PTY Call Types must not be entered

XFER PTYS PRES Call Types must not be entered

NWAY PTYS PRES Call Types must be "N"

CODE3WAY - For 5E4(2) and later, if MULTIWAY CONTROL is "CODE3WAY", MULTIWAY TRANSFER, SPLIT LAST PTY, HOLD XFER, 3WAY XFER, and the IN MIDDLE, OFF HOOK and CALL PICKUP ENTRY POINTS must be "N".

2.6 MULTIWAY TRANSFER

Description: Enter the Multi-Way Transfer option.

"NO" is the only value allowed except for multi-way features derived from the preconstructed features using ODA change-insert mode of the review operation.
Default: NO
Valid Entries:

Valid MULTIWAY TRANSFER Entries

Entry	Definition
ALW	Allow transfer occurs when the controlling terminal disconnects from a configuration in which one or more terminals are on hold and the controlling terminal is talking to another terminal, or a configuration in which the controlling terminal is talking with two or more other terminals. The transfer connects the non-controlling terminals into a talking configuration.
ET	Software Release: 5E9(1) and later. Explicit Transfer Request. A feature with MULTIWAY TRANSFER set to "ET" may be assigned only to Standard BRI users: DSL CLS is "STD" on the DSLUSR form (5908 Record).
NO	No transfer is allowed. When the controlling terminal disconnects, all terminals on the call are idled unless there is a terminal on hold, in which case the controlling terminal is rung back by the held terminal(s).
TONE	Allows transfer on dial tone. Provides the ability to receive a call, flash to hold the call and then after dialing an access code to the public network or a private facility that returns dial tone, disconnect and transfer the dial tone to the held terminal. That terminal can then complete dialing the call. The held terminal must be a member of the controlling terminal's terminal group.

Data Rules:

For 5E4(2) and later, if MULTIWAY TRANSFER is "NO", ISDN ATTENDANT must be "N".

For 5E4(2) and later, if MULTIWAY TRANSFER is "TONE", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICKUP, ISDN ATTENDANT, CALL WAITING, and CALL PICKUP ENTRY POINTS must be "N", and MULTIWAY CONTROL cannot be "DIRCON", "NWAY", or "CODE3WAY".

2.7 PS/PD TREATMENT

Description: Enter the Multi-Way Calling Permanent Signal/Partial Dial Treatment. This is used to specify what types of treatment are given when a customer using a multi-way feature and receiving a dial tone to dial a code or telephone number times out due to normal permanent signal or partial dial timing.

"AUTOREST" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: AUTOREST
Valid Entries:

Valid PS/PD TREATMENT Entries

Entry	Definition
AUTOREST	The state which existed prior to the dial tone that resulted in PS/PD timeout is restored.
NORMAL	Normal office PS/PD treatment. The treatment is given even if there are held terminals. The customer may flash to exit this treatment and be reconnected to dial tone or may disconnect. If the customer has one or more terminals on hold, the caller is rung back upon disconnect.
SILENCE	The customer hears nothing when PS/PD treatment is begun. The customer may flash to exit this treatment in the same way as with "NORMAL".

Data Rules:

For 5E4(2) and later, if PS/PD TREATMENT is "AUTOREST", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICK-UP, and ISDN ATTENDANT must be "N".

For 5E4(2) and later, if PS/PD TREATMENT is "SILENCE", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICKUP and ISDN ATTENDANT must be "N".

2.8 DEPARTURE TONE

Description: Enter the departure tone given to the controlling terminal in a multi-way call when either a held terminal or a non-controlling terminal in a three-way or n-way call disconnects.

"NONE" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: NONE
Valid Entries:

Valid DEPARTURE TONE Entries

Entry	Definition
BEEP1	One beep of from 200 to 4000 milliseconds of 440 Hz tone. The duration of the tone is specified in the TONE DURATION field of this form or the MWLPA (5602-3 Record), MWMPA (5602-3 Record) or MWTPA (5602-4 Record) form.
BEEP2	Two beeps of 100 milliseconds of 440 Hz tone separated by 100 milliseconds.
BEEP3	Three beeps of 100 milliseconds of 440 Hz tone separated by 100 milliseconds.
LEAVE	Party leaving tone of 150 milliseconds of 1510 Hz tone followed by 300 milliseconds of 1510 Hz + 1103 Hz tone.
NONE	No tone.

2.9 FLASH BEFORE ANS

Description: Is Flash Before Answer allowed? Flash Before Answer allows the switch owner to select when a customer flash is recognized by the switch while the controlling terminal is establishing the first leg of a multi-way call.

If "Y", The controlling terminal is allowed to flash after calling party treatment (e.g., audible ring) is returned but before the called party answers.

If "N", The controlling terminal is allowed to flash only after the called party answers.

"Y" is the default value and the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: Y
Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, if FLASH BEFORE ANS is "Y", CALL WAITING and CALL PICK-UP ENTRY POINTS must be "N".

For 5E4(2) and later, if FLASH BEFORE ANS is "N", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICK-UP and ISDN ATTENDANT must be "N".

2.10 SPLIT LAST PTY

Description: Is Split Last Party allowed? Split Last Party allows the controlling terminal in an n-way call to flash (after the n-way call is established) and dial a code to remove the last party added to the n-way call. Once a terminal is split from the call, the code may not be used again until another party has been added to the call.

The split last party code is required in either the office dialing plan (defined on the PDIT form), or the line's IDP (defined on the IDPDCA form) with an ACTION of "MWSPL" and a FEATURE equal to the FEATURE NAME entered on this form.

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

"Y" may be entered only if the MULTIWAY CONTROL is "NWAY".

2.11 AMAC

Description: This field indicates whether flat rate or usage sensitive billing is used.

Software Release: 5E8 and later.
Default: FLAT
Valid Entries:

Valid AMAC Entries

Entry	Definition

FLAT	Flat rate AMA charging.
USE	Software Release 5E8 only. Usage sensitive AMA charging.
USEAGE	Software Release 5E9 and later. Usage sensitive AMA charging.

Data Rules:

When AMAC is "FLAT", all other billing options must be "N".

If AMAC is "USAGE" or "USE"

- 3WAY must be "ALL"
- 3WAY ADDED PTY CALL TYPES must be "Y"
- 3WAY ORIG PTY CALL TYPES must be "Y"
- 3WAY XFER and HOLD XFER must be "N".
- ACT/INACT OPTION must be "ACT1CA"
- CALL WAITING and CALL PICKUP must be "N".
- DEPARTURE TONE must be "NONE"
- DIAL CODE OR BUTTON must be "N".
- DIRECT CONNECT DN must not be entered.
- FEATURE BUTTON must be "N".
- FLASH must be "N".
- FLASH BEFORE ANS must be "N".
- HOLD must be "ALL"
- HOLD ADDED PTY CALL TYPES must be "Y"
- HOLD ORIG PTY CALL TYPES must be "Y"
- IN MIDDLE must be N and OFF HOOK must be "Y"
- ISDN CALL PICKUP and ISDN ATTENDANT must be "N".
- MULTIWAY CONTROL must be "3WAY"
- MULTIWAY TRANSFER must be "NO"
- N-WAY MAXIMUM must not be entered.
- NWAY PTYS PRES CALL TYPES must not be entered.
- PS/PD TREATMENT must be "AUTOREST"

- SPLIT LAST PTY must be "N".
- TONE DURATION must not be entered.
- TRANSFER must be "ALL"
- XFER ORIG PTY CALL TYPES must not be entered.
- XFER ADDED PTY CALL TYPES must not be entered.
- XFER PTYS PRES CALL TYPES must not be entered.

If Usage Sensitive Three-Way Calling features are defined on an MWFD form where MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE", these features cannot be assigned to lines, therefore the LINEFA, CLUSTR, and/or BFG forms cannot have a Usage Sensitive Three-Way Calling feature name entered.

The field USTWC FEAT on the OFCOPT form is used by the Usage Sensitive Three-Way Calling Special Feature, therefore the feature name specified in that field must be defined on an MWFD form where MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE".

If Usage Sensitive Three-Way Calling features are defined on an MWFD form where MULTIWAY CONTROL is "3WAY" and AMAC is "USAGE", these features cannot be assigned to multi-line hunt lines; therefore MLHLNFA, CLUSTR and/or BFG forms cannot have a Usage Sensitive Three-Way Calling feature name entered.

For 5E9(1) and later with Usage Sensitive 3-Way Calling, when AMAC is "USAGE" and FLASH is "N",

- ACT/INACT OPTION must be "ACT1CA"
- IN MIDDLE must be "N"
- OFF HOOK must be "Y".

For 5E9(1) and later with Spontaneous Usage Sensitive 3-Way Calling, when AMAC is "USAGE" and FLASH is "Y",

- ACT/INACT OPTION must be "ALWACT"
- OFF HOOK must be "N".

ENTRY POINT

Fields Section 2.12 -Section 2.16 specify when the multi-way feature is invoked during normal call processing. The two dialed code entry points, IN MIDDLE and OFF HOOK are not mutually exclusive with each other. However, the remaining entry points, FLASH, CALL WAITING and CALL PICKUP are mutually exclusive with each other and with the IN MIDDLE and OFF HOOK entry points, one of the ENTRY POINTS must be "Y".

2.12 FLASH

Description: Will the controlling terminal in a call involving two parties or involving the controlling terminal and some treatment (audible ringing, reorder, announcement, etc.) flash to receive dial tone and invoke the multi-way feature?

"Y" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: Y
Valid Entries: Y, N

Data Rules:

If FLASH is "Y", IN MIDDLE, OFF HOOK, CALL WAITING and CALL PICKUP ENTRY POINTS must be "N".

2.13 IN MIDDLE

Description: Is the multi-way feature accessed by dialing a code? In order for the customer to dial the code, dial tone must be provided with one or two terminals already being held. Therefore, a terminal assigned a multi-way feature with an IN MIDDLE entry point must either also be assigned a multi-way feature with one of the FLASH, entry points or a multi-way feature with the OFF HOOK entry point. The OFF HOOK entry point may be specified on either the same multi-way feature as the IN MIDDLE entry point, or on another multi-way feature.

If on another multi-way feature, both features must be assigned to the terminal. The code to invoke the feature is required in either the Office Dialing Plan (defined on the PDIT form), or the line's IDP (defined on the IDPDCA form) with an ACTION of "MWSOH" and a FEATURE equal to the FEATURE NAME entered on this form.

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, if IN MIDDLE is "Y", MULTIWAY CONTROL cannot be "DIRCON" or "CODE3WAY".

2.14 OFF HOOK

Description: Is a multi-way feature invoked while receiving dial tone with no terminals held by dialing a code? The code to invoke the feature is required in either the Office Dialing Plan (defined on the PDIT form), or the line's IDP (defined on the IDPDCA form) with an ACTION of "MWSOH" and a FEATURE equal to the FEATURE NAME entered on this form.

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, if OFF HOOK is "Y", CALL WAITING and CALL PICKUP ENTRY POINTS must be "N". In addition, MULTIWAY CONTROL cannot be "DIRCON" or "CODE3WAY".

2.15 CALL WAITING

Description: Is the multi-way feature to be invoked from the call waiting feature? In order for a call waiting feature to exit to this multi-way feature, the call waiting feature (defined on the CWTFD form (5603-1 Record)) must have this multi-way feature specified as its MULTI-WAY BRIDGE TO FEATURE.

If the call waiting customer flashes (the first flash), the talked to terminal is put on hold, control of the call is transferred to this multi-way feature and the controlling terminal is connected with the waiting terminal.

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E4(2) and later, if CALL WAITING is "Y", CALL PICKUP must be "N", ACT/INACT must be "ALWACT", MULTI-WAY XFER must not be "TONE", FLASH BEFORE ANS must be "N", 3WAY XFER must be "N" and HOLD XFER must be "N".

2.16 CALL PICKUP

Description: Is the multi-way feature invoked from the call pickup terminating feature? In order for a call pickup terminating feature to exit to this multi-way feature, the call pickup terminating feature (defined on the PUTFD form (5605-2 Record)) must have this multi-way feature specified as its MULTI-WAY field.

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

If CALL PICKUP is "Y", ACT/INACT must be "ALWACT", MULTIWAY CONTROL must be "3WAY", MULTIWAY TRANSFER cannot be "TONE", FLASH BEFORE ANS must be "N", and HOLD XFER must be "N".

ISDN ENTRY POINT

Fields Section 2.17 -Section 2.20 refer to when the multi-way feature is invoked during normal call processing for ISDN terminals. The entry points, FEATURE BUTTON, DIALED CODE OR BUTTON and ISDN CALL PICKUP are mutually exclusive. Features constructed with these entry points can be assigned only to ISDN terminals.

2.17 FEATURE BUTTON

Description: Will entry to multi-way features be allowed for ISDN functional buttons, Conference or Transfer, from an ISDN terminal on a two-way call? These are functional buttons and depression of these buttons causes specific messages (Conference or Transfer message) to be sent by the terminal.

When an ISDN terminal voice is active on a CA (Call Appearance) and is in a talking state as the result of either originating or receiving a call, or is connected to some treatment (audible ringing or announcement) after having completed dialing, the user may press the conference or transfer button on the ISDN terminal and may or may not press the CA of the other call to conference with or transfer to depending upon the terminal interface.

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ISDN FEATURE BUTTON is "Y" then the following must be true:

- ISDN DIALED CODE OR BUTTON and ISDN CALL PICKUP must be "N".
- 3WAY XFER SIGNAL CONTROL and HOLD XFER SIGNAL CONTROL must be "N".
- FLASH BEFORE ANSWER must be "Y".
- CALL TRANSFER CONSTRAINTS must not be "TONE" and MULTIWAY CONTROL must not be "AUTO3WAY", "HOLDALT", "CODEALT", or "DIRCON".
- PS/PD TREATMENT must be "NORMAL" and HOLD FILTERING must be "ALL".

For 5E8 and later, if a Multi-Way feature with FEATURE BUTTON set to "Y" is assigned to a CKT TN on a non-Standard BRI (CKT TN is defined on a DSLUSR form where the associated DSL form has a DSL CLS other than "STD"), the CKT TN's CPE must have more than one call appearance. Either the CA QTY on the DSLUSR form must be greater than one, or the CKT TN must appear in the SHARED LIST of an SHTN form (5902 Record) where the CKT TN is not the key TN. Similarly, if the feature is assigned to a CKT MLHG/TERM, the CKT MLHG/TERM's CPE must have more than one call appearance. Either the CA QTY on the DSLUSR form must be greater than one, or the CKT MLHG/TERM must appear in the SHARED LIST of an SHTN form where the CKT MLHG/TERM is not the key MLHG/TERM.

For 5E10 and later, if the ISDN FEATURE BUTTON ENTRY POINT is "Y", MULTIWAY CONTROL cannot be "AUTO3WAY", "CODEALT", "DIRCON", "HLDALT3W" or "HOLDALT".

2.18 DIAL CODE OR BUTTON

Description: Can the ISDN terminal voice user invoke an active ISDN multi-way feature by dialing a code? Optionally, the user can press a feature button instead of dialing the code. In order to dial this type of code or press a feature button to indicate the feature, the user must be receiving dial tone.

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ISDN DIALED CODE OR BUTTON is "Y" then the following must be true:

- ISDN FEATURE BUTTON, ISDN CALL PICKUP, 3WAY XFER SIGNAL CONTROL must be "N".
- FLASH BEFORE ANSWER must be "Y".
- CALL TRANSFER CONSTRAINTS must not be "TONE" and MULTIWAY CONTROL must not be "AUTO3WAY", "HOLDALT", "CODEALT", or "DIRCON".

- PS/PD TREATMENT must be "NORMAL" and HOLD FILTERING must be "ALL".

If a Multi-Way feature with DIAL CODE OR BUTTON set to "Y" is assigned to a CKT TN on a non-Standard BRI (CKT TN is defined on a DSLUSR form where the associated DSL form has a DSL CLS other than "STD"), the CKT TN's CPE must have more than one call appearance. Either the CA QTY on the DSLUSR form must be greater than one, or the CKT TN must appear in the SHARED LIST of an SHTN form (5902 Record) where the CKT TN is not the key TN.Similarly, if the Multi-Way Feature is assigned to the CKT MLHG/TERM on a non-Standard BRI, the CKT MLHG/TERM's CPE must have more than one call appearance. Either the CA QTY on the DSLUSR form must be greater than one, or the CKT MLHG/TERM must appear in the SHARED LIST of an SHTN form where the CKT MLHG/TERM is not the key MLHG/TERM.

For 5E10 and later, if DIAL CODE OR BUTTON ENTRY POINT is "Y", MULTIWAY CONTROL cannot be "AUTO3WAY", "CODEALT", "DIRCON", "HLDALT3W" or "HOLDALT".

2.19 ISDN CALL PICKUP

Description: May a multi-way feature for ISDN be entered from Call Pickup?

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ISDN CALL PICKUP is "Y" then the following must be true:

- ISDN FEATURE BUTTON, DIALED CODE OR BUTTON, 3WAY XFER SIGNAL CONTROL and HOLD XFER SIGNAL CONTROL must be "N".
- ACT/INACT OPTION must be "ALWACT", MULTIWAY CONTROL must be "3WAY", FLASH BEFORE ANSWER must be "Y", PS/PD TREATMENT must be "NORMAL" and HOLD FILTERING must be "ALL".
- CALL TRANSFER CONSTRAINTS must not be "TONE".

2.20 ISDN ATTENDANT

Description: May a multi-way feature for ISDN ATTENDANT be accessed by dialed code or feature button?

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ISDN CALL PICKUP is "Y" then the following must be true:

- ISDN FEATURE BUTTON, ISDN CALL PICKUP, 3WAY XFER SIGNAL CONTROL and HOLD XFER SIGNAL CONTROL must be "N".

- FLASH BEFORE ANSWER must be "Y", PARTIAL SIGNAL/PARTIAL DIAL treatment must be "NORMAL" and HOLD FILTERING must be "ALL".
- MULTIWAY CONTROL must not be "FLSHRPT", "HOLDALT", "CODEALT", "DIRCON" or "HOLD".
- CALL TRANSFER CONSTRAINTS must not be "N". HOLD XFER must be "N" and HOLD FILTERING must be "ALL".

For 5E10 and later, if ISDN ATTENDANT ENTRY POINT is "Y", MULTIWAY CONTROL cannot be "CODEALT", "DIRCON", "FLSHRPT", "HLDALT3W", "HOLD" or "HOLDALT".

SIGNAL CONTROL

Fields Section 2.21 -Section 2.22 refer to allowing a signal to be sent to a controlling terminal on 3-Way and transfer and hold and transfer. When a 50A or 50B console is used by an attendant to transfer calls, the attendant usually sets up a three-way call with the last terminal still unanswered. The attendant puts this call on hold.

If the last terminal answers, or the original non-controlling terminal disconnects, the switch sends an open interval (nominally 150 milliseconds) toward the console. The console senses this open interval and disconnects.

> ***NOTE:*** This open interval under worst case extreme switch load conditions could be of a duration up to 330 milliseconds.

If the open interval was sent as a result of a disconnect from the original non-controlling terminal, the switch idles all the terminals involved in the three-way call.

If the open interval had been sent as a result of an answer from the last terminal, the switch connects the remaining two (non-attendant) terminals.

If the controlling terminal's hardware is not equipped to detect the open interval, it has no affect on call processing.

If both of the SIGNAL CONTROL options are specified as "N", no open interval is sent.

2.21 3WAY XFER

Description: Will a signal be sent to the controlling terminal on 3-way and transfer?

"N"is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

For MULTIWAY CONTROL options of "3WAY", "AUTO3WAY", "DIRCON", or "NWAY" with MULTIWAY TRANSFER of either "ALW" or "TONE", 3WAY XFER may be specified as "Y". For other MULTIWAY CONTROL options and for MULTIWAY TRANSFER of "NO", 3WAY XFER must be "N". If "Y" is specified and a three-way or n-way call has been established with no terminals on hold and the third (or nth) terminal has been called and answers, or the non-controlling terminal of a three-way call disconnects, the open interval is sent to the controlling terminal.

For 5E4(2) and later, if 3WAY XFER is "Y", ISDN FEATURE BUTTON, ISDN DIALED CODE or BUTTON, ISDN CALL PICKUP and ISDN ATTENDANT must be "N", MULTIWAY CONTROL cannot be "HOLD", "HOLDALT", or "CODEALT", MULTIWAY TRANSFER must be "Y" and the CALL WAITING and CALL PICKUP ENTRY POINTS must be "N".

For 5E7 and later, if 3WAY XFER is "Y", then the MW feature cannot be assigned on either the TRUNKFA form (5205 Record) or TKGRPFA form (5206 Record).

For 5E10 and later, when 3WAY XFER is "Y", MULTIWAY CONTROL cannot be "CODE3WAY", "CODEALT", "HLDALT3W", "HOLD" or "HOLDALT".

2.22 HOLD XFER

Description: Will a signal be sent to the controlling terminal on hold and transfer?

"N" is the only value allowed except for multi-way features derived from the preconstructed features using the ODA change-insert mode of the review operation.
Default: N
Valid Entries: Y, N

Data Rules:

If the MULTIWAY CONTROL option equals "NWAY" or "CODE3WAY", HOLD XFER must equal "N". For all other MULTIWAY CONTROL values, HOLD XFER can be equal to "Y" or "N".

If MULTIWAY TRANSFER equals "NO", HOLD XFER must be "N".

If "Y" is specified and one terminal is on hold and the controlling terminal has dialed a third terminal, when the third terminal answers, or if the held terminal disconnects, an open interval is sent to the controlling terminal.

For 5E4(2) and later, if HOLD XFER is "Y", ISDN FEATURE BUTTON, ISDN DIALED CODE or BUTTON, ISDN CALL PICKUP, ISDN ATTENDANT and CALL WAITING and CALL PICKUP ENTRY POINTS must be "N".

For 5E7 and later, if HOLD XFER is "Y", then the MW feature cannot be assigned on either the TRUNKFA form (5205 Record) or TRGRPFA form (5206 Record).

FILTERING FEATURE OPTIONS

Fields Section 2.23 -Section 3.9 refer to Filtering Feature Options. The Filtering Feature Options specified on screen 2 of the MWFD form are used to limit and control the actions of the multi-way feature based on the relationship of the controlling terminal (i.e., the terminal to which the multi-way feature is assigned) to both its status as a call originator and its relationship to the terminal it is attempting to affect. Two classes of filtering must be specified:

A. Originating/Terminating Filtering, which determines whether the call was originated by, or terminated to, the controlling terminal (i.e., the terminal to which the multi-way feature is assigned); and

B. Call Filtering, which determines the relationship of the controlling to a non-controlling terminal in a multi-way call.

In each of the filtering classes, if the conditions specified by the selected filtering option are not met, the action being attempted by the controlling terminal is not allowed.

ORIGINATING/TERMINATING

Fields Section 2.23 -Section 2.25 refer to Originating/Terminating Options. Each of the Originating/Terminating options is used to specify whether the multi-way action is allowed based on whether the original call was originated by, or terminated to, the controlling terminal (i.e., the terminal to which the multi-way feature is assigned).

Valid ORIGINATING/TERMINATING Entries

Entry	Definition
ALL	Allows the action regardless of whether the original call was originated by or terminated to the controlling terminal.
ORIG	Limits the action to cases in which the original call was originated by the controlling terminal.
TERM	Limits the action to cases in which the original call was terminated to the controlling terminal.

For 5E4(2) and later, if any of the ORIGINATING/TERMINATING options is "ORIG" or "TERM", ISDN FEATURE BUTTON, ISDN DIALED CODE OR BUTTON, ISDN CALL PICKUP and ISDN ATTENDANT must be "N".

2.23 HOLD

Description: Enter the Originating/Terminating Option for HOLD filtering.

If this multi-way feature has a FLASH entry point, the HOLD filtering is done on the original call at the time the controlling terminal flashes to put another terminal on hold.

If the requirements of the specified option are not met, the flash is ignored and the controlling terminal remains in a talking state with the original non-controlling terminal.

If the entry point is IN MIDDLE and the controlling terminal dials a code to invoke the multi-way feature and the requirements of the specified option are not met, the feature is not allowed, reorder is given to the controlling terminal and the controlling terminal must use the original feature's control functions to remove the reorder.

Required Field.
Default: ALL
Valid Entries: ALL, ORIG, TERM

Data Rules:

For 5E4(2) and later, if HOLD is not "ALL", ISDN ENTRY POINTS BUTTON, DIALED CODE OR BUTTON, CALL PICKUP and ATTENDANT must be "N".

2.24 3WAY

Description: Enter the Originating/Terminating Option for 3WAY filtering.

If this multi-way feature has a FLASH entry point, the 3WAY filtering is done on the original call at the time the controlling terminal flashes to create a three-way call.

If the requirements of the specified option are not met, the flash is ignored, the controlling terminal is not allowed to create the three-way call and the call configuration that existed prior to the flash remains.

If the entry point is IN MIDDLE and the controlling terminal dials a code to create a three-way call and the requirements of the specified option are not met, the feature is not allowed, reorder is given to the controlling terminal and the controlling terminal must use the original feature's control functions to remove the reorder.

An entry is required in this field if MULTIWAY CONTROL is "3WAY", "AUTO3WAY", or "DIRCON". Otherwise, 3-way filtering is not done and no entry is allowed in this field.
Valid Entries: ALL, ORIG, TERM

2.25 TRANSFER

Description: Enter the Originating/Terminating Option for TRANSFER filtering.

If this multi-way feature has a MULTIWAY TRANSFER option of "ALW" or "TONE", this filtering is done on a call in which the controlling terminal has either set up a three-way call, or has put the non-controlling terminal of a two-way call on hold and has dialed a third terminal and then disconnects.

If the requirements of the specified option are not met, all terminals involved in the call are idled.

An entry is required in this field if the MULTIWAY TRANSFER option is either "ALW" or "TONE". Otherwise no entry is allowed in this field.
Valid Entries: ALL, ORIG, TERM

3. FORM ENTRIES - 5602-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

CALL FILTERING

Fields Section 3.2 -Section 3.9 refer to Call Filtering.

This type of filtering examines the relationship among the non-controlling terminals involved in the call and the controlling terminal.

Within each of the eight call classes below, a "Y" or "N" indication must be specified (depending on the selected MULTIWAY CONTROL and MULTIWAY TRANSFER options) for each of five categories of calls. If more than one of the categories are "Y", a call in any of the specified categories is allowed to complete (assuming that originating/terminating filtering also passed). The five categories are as follows:

Valid CALL TYPES

Entry	Definition
ATTENDANT	A "Y" specifies that if the non-controlling terminal involved in the call is classed as an attendant (i.e., its Line Class Code must have a Class Of Service of "ATND") and is in the same terminal group as the controlling terminal, the action is allowed.
INTRAGRP	A "Y" specifies that the non-controlling terminal involved in the call must be in the same terminal group as the controlling terminal but may not be either a private facility or an attendant.
INTRAOFC	A "Y" specifies that the non-controlling terminal involved in the call must be in the same office as the controlling terminal but may not be in the same terminal group or be either a private facility or an attendant.
INTEROFC	A "Y" specifies that the non-controlling terminal involved in the call must be in a different office from the controlling terminal and may not be either a private facility or an attendant.
PVTFAC	A "Y" specifies that the non-controlling terminal involved in the call must be a private facility and may not be classed as an attendant.

For 5E4(2) and later Software Releases, one of the above five categories must be "Y".

CALL CLASSES

Fields Section 3.2 -Section 3.9 refer to Call Classes.

3.2 HOLD ORIG PTY

Description: Can the controlling terminal put the originating party on hold?

This filtering is done on the relationship between the controlling terminal and the non-controlling terminal of the original call at one of the following times:

A. If this multi-way feature has a FLASH entry point, when the controlling terminal flashes in an attempt to hold the original non-controlling terminal.

   If the original non-controlling terminal is not in one of the allowed categories, the flash is ignored and the controlling terminal remains in a talking state with the non-controlling terminal.

B. If the entry point is IN MIDDLE and the controlling terminal dials a code to invoke the multi-way hold feature and the original non-controlling terminal is not in one of the allowed categories, the feature is not allowed, reorder is given to the controlling terminal and the controlling terminal must use the original feature's control functions to remove the reorder.

"Y" or "N" entries are always required in all five categories.

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

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the HOLD ORIG PTY Call Type, then one of the options must be "Y".

3.3 HOLD ADDED PTY

Description: Can the controlling terminal put the added party on hold?

This filtering is done on the relationship between the controlling terminal and a new terminal after the controlling terminal successfully holds any other terminals involved in the call and finishes dialing either a party to be added or an access code to another multi-way feature in an attempt to alternate to or add another party.

If the party being added is not in one of the allowed categories, the controlling terminal is given reorder and must use the original feature's control functions to remove it. "Y" or "N" entries are always required in all five categories.

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

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the HOLD ADDED PTY Call Type, then one of the options must be "Y".

3.4 3WAY ORIG PTY

Description: Can the controlling terminal add a third party to an existing call?

This filtering is done on the relationship between the controlling terminal and the original non-controlling terminal of a two-way call after the controlling terminal flashes to create a three-way call or dials an access code to another multi-way feature in an attempt to add a new terminal to the call.

If the original party is not in one of the allowed categories, the controlling terminal is given reorder and must use the original feature's control functions to remove it.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY CONTROL of "3WAY", "AUTO3WAY", or "DIRCON". Entries are prohibited for all other multi-way features.
Default: Y
Valid Entries: Y, N

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the 3WAY ORIG PTY Call Type, then one of the options must be "Y".

3.5 3WAY ADDED PTY

Description: Can the controlling terminal add another line to an existing call?

This filtering is done on the relationship between the controlling terminal and a new terminal after the controlling terminal flashes to create a three-way call or dials an access code to another multi-way feature in an attempt to add a new terminal to the call (e.g., a direct connect feature).

If the party being added is not in one of the allowed categories, the controlling terminal is given reorder and must use the original feature's control functions to remove it.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY CONTROL of "3WAY", "AUTO3WAY", or "DIRCON". Entries are prohibited for all other multi-way features.
Valid Entries: Y, N

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the 3WAY ADDED PTY Call Type, then one of the options must be "Y".

3.6 XFER ORIG PTY

Description: Can the controlling terminal transfer the originating party?

This filtering is done on the relationship between the controlling terminal and the original non-controlling terminal of a two-way call after the controlling terminal disconnects from the call.

If the original party is not in one of the allowed categories, all remaining terminals in the call are idled.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY TRANSFER

of "ALW" or "TONE". Entries are prohibited for all other multi-way features.
Valid Entries: Y, N

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the XFER ORIG PTY Call Type, then one of the options must be "Y".

3.7 XFER ADDED PTY

Description: Does the added party stay connected after the controlling terminal disconnects?

This filtering is done on the relationship between the controlling terminal and the added terminal after the controlling terminal disconnects from the call.

If the added party is not in one of the allowed categories, all remaining terminals on the call are idled.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY TRANSFER of "ALW" or "TONE". Entries are prohibited for all other multi-way features.
Valid Entries: Y, N

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the XFER ADDED PTY Call Type, then one of the options must be "Y".

3.8 XFER PTYS PRES

Description: Does the other party or third party stay present after the controlling terminal disconnects?

This filtering is done on the relationship between the controlling terminal and both the original and the added terminals after the controlling terminal disconnects from the call.

If either of the non-controlling terminals are in any of the allowed categories, the transfer is effected.

If neither of the two non-controlling terminals is in one of the allowed categories, all terminals on the call are idled.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY TRANSFER of "ALW" or "TONE". Entries are prohibited for all other multi-way features.
Valid Entries: Y, N

Data Rules:

When one of the FILTERING FEATURE OPTIONS is entered for the XFER PTYS PRES Call Type, then one of the options must be "Y".

3.9 NWAY PTYS PRES

Description: Do the parties remain present after the controlling terminal disconnects?

This filtering is done on the relationship between the controlling terminal and all non-controlling terminals in an n-way call when the controlling terminal disconnects with none of the non-controlling terminals on hold (if any terminals are on hold, the controlling terminal is rung back).

If any of the non-controlling terminals are in any of the allowed categories, the remaining terminals are connected in an (n-1)-way call. Each subsequent disconnect by the remaining terminals repeats the filtering using the relationship between the original controlling terminal and the remaining non-controlling terminals. On any of the disconnects, if none of the remaining terminals is in one of the allowed categories, all terminals on the call are idled.

"Y" or "N" entries must be specified in all five categories for multi-way features with MULTIWAY CONTROL of "NWAY". Entries are prohibited for all other multi-way features.
Valid Entries: Y, N

Data Rules:

For 5E15 and later, when MULTIWAY CONTROL is "NWAY" and AMAC is "USAGE" for NWAY PTYS PRES Call Type, then all of the FILTERING FEATURE OPTIONS must be "N".

For 5E15 and later, when MULTIWAY CONTROL is not "NWAY" or AMAC is not "USAGE" for NWAY PTYS PRES Call Type, then one of the FILTERING FEATURE OPTIONS must be "Y".

DEFAULT PARAMETERS

Fields Section 3.10 -Section 3.12 refer to Default Parameters. Default Parameters on a MWFD form are automatically assigned to a terminal when the multi-way feature is assigned to the terminal unless they are overridden by parameters specified on the individual terminal parameter (MWLPA, MWMPA, or MWTPA) form.

If the terminal parameter form is entered for a given terminal, all of the parameters specified override the default parameters.

3.10 N-WAY MAXIMUM

Description: Enter the maximum number of terminals which may be connected on a n-way call.

This parameter is allowed only for a MULTIWAY CONTROL of "NWAY".
Valid Entries:

For 5E4(2) and later: 0, 3 - 6

3.11 TONE DURATION

Description: Enter the duration (in milliseconds) of the BEEP1 DEPARTURE TONE.

This entry is allowed only when DEPARTURE TONE is "BEEP1".
Valid Entries: 200, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900, and 4000.

3.12 DIRECT CONNECT DN

Description: Enter the predesignated TN of the Terminal for the Direct Connect three-way connections.

This entry is required and only allowed when MULTIWAY CONTROL is "DIRCON".
Valid Entries: 1 - 15 digits (0 - 9, # or *)

REMARKS

FEATURE	ACTINACT	CONTROL	TRANSFER	PSPD	DEPTONE	FLSHB4AN	SPLASTPT	FLASH	INMID	OFFHK	FRCW	FRPU
	ISBUTTON	ISDIALCD	ISFRPU	ISATTDNT	3WAYXFER	HOLDXFER	NWAYSIZE	TONEDURN				
	DIRCONDN	HOLDFILT	3WAYFILT	XFERFILT	AMAC							
/MW*	MULTIWAY WILDCARD FEATURE											
	ALWACT	3WAY	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MW3WC	THREE WAY CALLING											
	ALWACT	3WAY	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL									
/MW6WC	6 WAY CONFERENCING											
	ALWACT	NWAY	ALW	AUTOREST	NONE	Y	Y	N	Y	Y	N	N
	N	N	N	N	N	N	6					
		ALL		ALL								
/MWACH1	ADD ON CONSULT HOLD INC 1											
	ALWACT	3WAY	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	TERM									
/MWACH2	ADD ON CONSULT HOLD INC 2											
	ALWACT	3WAY	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM									
/MWACT1	ATTENDANT CALL TRANSFER											
	ALWACT	AUTO3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	Y	Y						
		ALL	ALL	ALL								
/MWACT2	ATTENDANT CALL TRANSFER											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	N	Y	N	N	N
	N	N	N	N	Y	Y						
		ALL	ALL	ALL								
/MWCH1	CALL HOLD 1											
	ALWACT	CODEALT	NO	SILENCE	NONE	Y	N	N	Y	N	N	N
	N	N	N	N	N	N						
		ALL										
/MWCH2	CALL HOLD 2											
	ALWACT	CODEALT	NO	SILENCE	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL										
/MWCP	BRIDGE FROM CALL PICKUP											
	ALWACT	3WAY	ALW	AUTOREST	NONE	N	N	N	N	N	N	Y
	N	N	N	N	Y	N						
		ALL	ALL	ALL								
/MWCTA1	CALL TRANS ATTENDANT 1 (W/CH)											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	TERM	TERM								

/MWCTA2	CALL TRANS ATTNDT 2 (W/O CH)											
	ALWACT	DIRCON	ALW	AUTOREST	NONE	N	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM	TERM								
/MWCTIA1	CALL TRANS INDIV ALL CALLS 1											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWCTIA2	CALL TRANS INDIV ALL CALLS 2											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWCTIA3	CALL TRANS INDIV ALL CALLS 3											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWCTIA4	CALL TRANS INDIV ALL CALLS 4											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWCTIA5	CALL TRANS INDIV ALL CALLS 5											
	ALWACT	AUTO3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWCTII1	CALL TRANS IND INC ONLY (W/CH)											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	TERM	TERM								
/MWCTII2	CALL TRANS IND INC ONLY 2(W/O CH											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM	TERM								
/MWCTII3	CALL TRANS IND INC ONLY 3 W/CH											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	TERM	TERM								
/MWCTII4	CALL TRANS IND INC ONLY 4 W/O CH											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM	TERM								
/MWCTIO1	CALL TRANS INTERNAL ONLY W/CH											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	TERM	TERM								
/MWCTIO2	CALL TRANS INTERNAL ONLY W/O CH											
	ALWACT	3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM	TERM								
/MWCDAC	BRIDGE FROM CALL CWD - ANY CALL											
	ALWACT	HOLDALT	NO	AUTOREST	NONE	N	N	N	N	N	Y	N
	N	N	N	N	N	N						
		ALL										

/MWCDGO	BRIDGE FROM CWD INTRAGRP ONLY											
	ALWACT	HOLDALT	NO	AUTOREST	NONE	N	N	N	N	N	Y	N
	N	N	N	N	N	N						
		ALL										
/MWCWIG	BRIDGE FROM CALL WTG - INC ONLY											
	ALWACT	HOLDALT	NO	AUTOREST	NONE	N	N	N	N	N	Y	N
	N	N	N	N	N	N						
		ALL										
/MWCWDIO	BRIDGE FROM CWD- INC ONLY											
	ALWACT	HOLDALT	NO	AUTOREST	NONE	N	N	N	N	N	Y	N
	N	N	N	N	N	N						
		ALL										
/MWCWDNG	BRIDGE FROM CWD - NOT INTRAGRP											
	ALWACT	HOLDALT	NO	AUTOREST	NONE	N	N	N	N	N	Y	N
	N	N	N	N	N	N						
		ALL										
/MWDTA1	ATTENDT DIAL THRU 1											
	ALWACT	AUTO3WAY	TONE	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	Y	N						
		ALL	ALL	ALL								
/MWDTA2	ATTENDT DIAL THRU 2											
	ALWACT	AUTO3WAY	TONE	AUTOREST	NONE	Y	N	N	Y	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWDTVM	DIRECT CALL TRANSFER TO VM											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	Y	N	N	N
	N	Y	N	N	N	N						
		ALL	ALL	ALL	FLAT							
/MWI6WB2	ISDN 6-WAY FLEXIBLE CALL W/TRAN											
	ALWACT	NWAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N	6					
		ALL		ALL								
/MWI6WB3	ISDN FLEXIBLE CALL EXP TRAN											
	ALWACT	NWAY	ET	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N	6					
		ALL		ALL								
/MWI6WBA	ISDN SIX-WAY FLEXIBLE CALL W/TRAN											
	ALWACT	NWAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N	6					
		ALL		ALL								
/MWI6WBN	ISDN 6-WAY FLEXIBLE CALL NO TRAN											
	ALWACT	NWAY	NO	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N	6					
		ALL		ALL								
/MWI6WBT	ISDN 6-WAY FLEX CALL EXP TRAN											
	ALWACT	NWAY	ET	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N	6					
		ALL		ALL								
/MWI3WC	ISDN THREE-WAY CALLING											
	ALWACT	3WAY	NO	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								

/MWI6WC	ISDN SIX-WAY CALLING											
	ALWACT	NWAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	Y	N	N	N	N	6					
		ALL		ALL								
/MWIA3WC	ISDN ATTENDANT 3-WAY CALLING											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	N	Y	N	N						
		ALL	ALL	ALL								
/MWIA6WC	ISDN ATTENDANT 6-WAY CALLING											
	ALWACT	NWAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	N	Y	N	N	6					
		ALL		ALL								
/MWIAA3W	ISDN ATTENDANT AUTO 3-WAY											
	ALWACT	AUTO3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	N	Y	N	N						
		ALL	ALL	ALL								
/MWIACH	ISDN ADD-ON/CONSULT INC ONLY											
	ALWACT	3WAY	NO	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								
/MWIAHA3	ISDN ATTEND HOLD AND ALT 3-WAY											
	ALWACT	HA3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	N	Y	N	N						
		ALL	ALL	ALL								
/MWICTA2	ISDN FLEX TRAN INDV ALL CALLS											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWICTA3	ISDN FLEX EXP-TRAN INDV ALL CALL											
	ALWACT	3WAY	ET	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWICTA4	ISDN FLEX EXP-TRAN INTERNAL ONLY											
	ALWACT	3WAY	ET	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWICTAT	ISDN CALL TRANS ATTENDANT											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								
/MWICTI1	ISDN CALL TRAN INDIV INC ONLY 1											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								
/MWICTI2	ISDN CALL TRANS INDIV INC ONLY 2											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								
/MWICTI3	ISDN CALL TRANSFER ATTNDNT											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								

/MWICTIA	ISDN CALL TRANS INDIV ALL CALLS											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWICTIN	ISDN CALL TRANS INTERNAL ONLY											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWICTOU	ISDN CALL TRANS OUTSIDE											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	ALL	ALL								
/MWISAT1	ISDN FLASH REPEATING											
	ALWACT	FLSHRPT	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	Y	N	N	N	N	N						
		ALL	TERM	TERM								
/MWISPU	ISDN CALL PICKUP W/ BARGE-IN											
	ALWACT	3WAY	NO	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	Y	N	N	N						
		ALL	ALL	TERM								
/MWISPUH	ISDN PICKUP W/ BARGE-IN HELD CAL											
	ALWACT	3WAY	ALW	NORMAL	NONE	Y	N	N	N	N	N	N
	N	N	Y	N	N	N						
		ALL	ALL	TERM								
/MWMFE	RLT ATTENDANT CALL XFER											
	ALWACT	AUTO3WAY	ALW	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM	TERM	TERM								
/MWSAT1	SATELLITE ATTENDANT TRANSFER											
	ALWACT	FLSHRPT	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		TERM										
/MWSAT2	SAT. ATT. TRANS. - FLASH REPEAT											
	ALWACT	FLSHRPT	NO	AUTOREST	NONE	Y	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL										
/MWSP3WC	SPONT USAGE SENSITIVE 3-WAY CALL											
	ALWACT	3WAY	NO	AUTOREST	NONE	N	N	Y	N	N	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWUS3WC	USAGE SENSITIVE 3-WAY CALLING											
	ACT1CA	3WAY	NO	AUTOREST	NONE	N	N	N	N	Y	N	N
	N	N	N	N	N	N						
		ALL	ALL	ALL								
/MWUSSWC	USAGE SENSITIVE 6-WAY CALLING											
	ACT1CA	NWAY	NO	AUTOREST	NONE	N	Y	Y	Y	Y	N	N
	N	N	N	N	N	N	6					
		ALL										

Figure 1 PRECONSTRUCTED MULTI-WAY FEATURES (5602-1) 5E10 AND LATER SOFTWARE RELEASES

FEATURE		FILTERING							
		HOLD ORG PTY	HOLD ADDP TY	3WAY ORG PTY	3WAY ADDP TY	XFER ORG PTY	XFER ADDP TY	XFER PRSP TY	NWAY PRSP TY
/MW*	ATTNDNT:	Y	Y	Y	Y				
	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MW3WC	ATTNDNT:	Y	Y	Y	Y				
	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MW6WC	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	N	N
	INTEROFC:	Y	Y			Y	Y	N	N
	PFA:	Y	Y			Y	Y	N	N
/MWACH1	ATTNDNT:	Y	Y	N	Y				
	INTRAGRP:	Y	Y	N	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWACH2	ATTNDNT:	N	Y	N	Y				
	INTRAGRP:	N	Y	N	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWACT1	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWACT2	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCH1	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	Y						
	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWCH2	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	Y						
	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWCP	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTA1	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	N	N	N	N	N	N	
	INTRAOFC:	Y	N	Y	N	Y	N	N	
	INTEROFC:	Y	N	Y	N	Y	N	N	
	PFA:	Y	N	Y	N	Y	N	N	
/MWCTA2	ATTNDNT:	N	Y	N	Y	N	Y	Y	
	INTRAGRP:	N	N	N	N	N	N	N	
	INTRAOFC:	Y	N	Y	N	Y	N	N	
	INTEROFC:	Y	N	Y	N	Y	N	N	
	PFA:	Y	N	Y	N	Y	N	N	
/MWCTIA1	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	

	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTIA2	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWCTIA3	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	N	Y	N	Y	N	N	
	INTEROFC:	Y	N	Y	N	Y	N	N	
	PFA:	Y	N	Y	N	Y	N	N	
/MWCTIA4	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTIA5	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTII1	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTII2	ATTNDNT:	N	Y	N	Y	N	Y	Y	
	INTRAGRP:	N	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWCTII3	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWCTII4	ATTNDNT:	N	Y	N	Y	N	Y	Y	
	INTRAGRP:	N	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWCTIO1	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	N	Y	N	Y	N	N	
	INTEROFC:	Y	N	Y	N	Y	N	N	
	PFA:	Y	N	Y	N	Y	N	N	
/MWCTIO2	ATTNDNT:	N	Y	N	Y	N	Y	Y	
	INTRAGRP:	N	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	N	Y	N	Y	N	N	
	INTEROFC:	Y	N	Y	N	Y	N	N	
	PFA:	Y	N	Y	N	Y	N	N	
/MWCWAC	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	Y						
	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWCWGO	ATTNDNT:	Y	N						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	N						
	INTEROFC:	Y	N						
	PFA:	Y	N						
/MWCWIG	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	N						
	INTEROFC:	Y	N						
	PFA:	Y	N						
/MWCWIO	ATTNDNT:	Y	N						
	INTRAGRP:	Y	N						
	INTRAOFC:	Y	Y						

	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWCWNG	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	N						
	INTRAOFC:	Y	Y						
	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWDTA1	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWDTA2	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWDTVM	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWI6WB2	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	Y	Y
	INTEROFC:	Y	Y			Y	Y	Y	Y
	PFA:	Y	Y			Y	Y	Y	Y
/MWI6WB3	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	Y	Y
	INTEROFC:	Y	Y			Y	Y	Y	Y
	PFA:	Y	Y			Y	Y	Y	Y
/MWI6WBA	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	N	N
	INTEROFC:	Y	Y			Y	Y	N	N
	PFA:	Y	Y			Y	Y	N	N
/MWI6WBN	ATTNDNT:	Y	Y						Y
	INTRAGRP:	Y	Y						Y
	INTRAOFC:	Y	Y						Y
	INTEROFC:	Y	Y						Y
	PFA:	Y	Y						Y
/MWI6WBT	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	N	N
	INTEROFC:	Y	Y			Y	Y	N	N
	PFA:	Y	Y			Y	Y	N	N
/MWI3WC	ATTNDNT:	Y	Y	Y	Y				
	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWI6WC	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	N	N
	INTEROFC:	Y	Y			Y	Y	N	N
	PFA:	Y	Y			Y	Y	N	N
/MWIA3WC	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWIA6WC	ATTNDNT:	Y	Y			Y	Y	Y	Y
	INTRAGRP:	Y	Y			Y	Y	Y	Y
	INTRAOFC:	Y	Y			Y	Y	Y	Y
	INTEROFC:	Y	Y			Y	Y	Y	Y
	PFA:	Y	Y			Y	Y	Y	Y
/MWIAA3W	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	

	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWIACH	ATTNDNT:	Y	Y	N	Y				
	INTRAGRP:	Y	Y	N	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWIAHA3	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWICTA2	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWICTA3	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWICTA4	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWICTAT	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	N	N	N	N	
	INTRAOFC:	Y	Y	Y	N	Y	N	N	
	INTEROFC:	Y	Y	Y	N	Y	N	N	
	PFA:	Y	Y	Y	N	Y	N	N	
/MWICTI1	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWICTI2	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWICTI3	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	Y	N	Y	Y	
	INTRAOFC:	Y	Y	Y	N	Y	N	N	
	INTEROFC:	Y	Y	Y	N	Y	N	N	
	PFA:	Y	Y	Y	N	Y	N	N	
/MWICTIA	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWICTIN	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	N	Y	N	N	
	INTEROFC:	Y	Y	Y	N	Y	N	N	
	PFA:	Y	Y	Y	N	Y	N	N	
/MWICTOU	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	N	
	INTEROFC:	Y	Y	Y	Y	Y	Y	N	
	PFA:	Y	Y	Y	Y	Y	Y	N	
/MWISAT1	ATTNDNT:	Y	Y	N	Y	N	Y	Y	
	INTRAGRP:	Y	Y	N	N	N	N	N	
	INTRAOFC:	Y	Y	Y	N	Y	N	N	
	INTEROFC:	Y	Y	Y	N	Y	N	N	
	PFA:	Y	Y	Y	N	Y	N	N	
/MWISPU	ATTNDNT:	Y	Y	Y	Y				

	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWISPUH	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWMFE	ATTNDNT:	Y	Y	Y	Y	Y	Y	Y	
	INTRAGRP:	Y	Y	Y	Y	Y	Y	Y	
	INTRAOFC:	Y	Y	Y	Y	Y	Y	Y	
	INTEROFC:	Y	Y	Y	Y	Y	Y	Y	
	PFA:	Y	Y	Y	Y	Y	Y	Y	
/MWSAT1	ATTNDNT:	N	Y						
	INTRAGRP:	N	N						
	INTRAOFC:	Y	N						
	INTEROFC:	Y	N						
	PFA:	Y	N						
/MWSAT2	ATTNDNT:	Y	Y						
	INTRAGRP:	Y	Y						
	INTRAOFC:	Y	Y						
	INTEROFC:	Y	Y						
	PFA:	Y	Y						
/MWSP3WC	ATTNDNT:	Y	Y	Y	Y				
	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWUS3WC	ATTNDNT:	Y	Y	Y	Y				
	INTRAGRP:	Y	Y	Y	Y				
	INTRAOFC:	Y	Y	Y	Y				
	INTEROFC:	Y	Y	Y	Y				
	PFA:	Y	Y	Y	Y				
/MWUSSWC	ATTNDNT:	Y	Y						N
	INTRAGRP:	Y	Y						N
	INTRAOFC:	Y	Y						N
	INTEROFC:	Y	Y						N
	PFA:	Y	Y						N

Figure 2 PRECONSTRUCTED MULTI-WAY FEATURES (5602-2) 5E10 AND LATER SOFTWARE RELEASES

```
SCREEN 1 OF 3                    5ESS Switch
mwfd                         OFFICE DATA ADMINISTRATION
(5602-1/2)             MULTIWAY CALLING FEATURE DEFINITION

 *2. FEATURE NAME FEATURE        3. REMARKS ________________________________

        FEATURE OPTIONS                ENTRY POINT           SIGNAL CONTROL
  4. ACT/INACT OPTION  ALWACT         FLASH        Y          3WAY XFER N
     MULTIWAY CONTROL  3WAY           IN MIDDLE    N          HOLD XFER N
     MULTIWAY TRANSFER NO             OFF HOOK     N
     PS/PD TREATMENT   AUTOREST       CALL WAITING N
     DEPARTURE TONE    NONE           CALL PICKUP  N
     FLASH BEFORE ANS  Y
     SPLIT LAST PTY    N               ISDN ENTRY POINT
     AMAC              FLAT       17. FEATURE BUTTON      N
                                  18. DIAL CODE OR BUTTON N
                                  19. ISDN CALL PICKUP    N
                                  20. ISDN ATTENDANT      N
```

```
SCREEN 2 OF 3                    5ESS Switch
mwfd                      OFFICE DATA ADMINISTRATION
(5602-1/2)           MULTIWAY CALLING FEATURE DEFINITION

                          FILTERING FEATURE OPTIONS

ORIGINATING / TERMINATING
  23. HOLD ALL              24. 3WAY ________      25. TRANSFER ________

CALL TYPES            ATTENDANT  INTRAGRP   INTRAOFC   INTEROFC    PVTFAC
                      """"_  """   """   """    """
26. HOLD ORIG PTY    27. Y      28. Y      29. Y      30. Y      31. Y
  32. HOLD ADDED PTY   33. Y      34. Y      35. Y      36. Y      37. Y

  38. 3WAY ORIG PTY    39. _      40. _      41. _      42. _      43. _
  44. 3WAY ADDED PTY   45. _      46. _      47. _      48. _      49. _

  50. XFER ORIG PTY    51. _      52. _      53. _      54. _      55. _
  56. XFER ADDED PTY   57. _      58. _      59. _      60. _      61. _
  62. XFER PTYS PRES   63. _      64. _      65. _      66. _      67. _
  68. NWAY PTYS PRES   69. _      70. _      71. _      72. _      73. _
```

```
SCREEN 3 OF 3                    5ESS Switch             _
mwfd                      OFFICE DATA ADMINISTRATION
(5602-1/2)           MULTIWAY CALLING FEATURE DEFINITION

           DEFAULT PARAMETERS
  74. N-WAY MAXIMUM     _
  75. TONE DURATION     _____
  76. DIRECT CONNECT DN _______________
```

Figure 3 SAMPLE MWFD FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 3B: 5602-3 RECORD
MULTIWAY CALLING
LINE (TN) PARAMETER FORM - MWLPA

1. GENERAL

The 5602-3 Record is available with 5E2 and later Software Releases, and is used to define Multiway Calling Line Parameters.

The Line Parameter Form is used when a Multiway constructed feature is assigned to a terminal (line or trunk) and the desired parameters are different from the default parameters on the MWFD Form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.27.

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 * TELEPHONE NUMBER

Description: Enter a valid customer Telephone Number.

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:

The TN must be assigned on the LINE Form (5109 Record).

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
B911	Line to an Emergency Bureau.
INDIV	Individual Line.
PBX	Line to a PBX.
SATSTLN	Stand-Alone Test Line.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
ISDN	Digital Subscriber Line associated ISDN (Integrated Service Digital Network) service.
ISATND	ISDN attendant.

For 5E12 and later, TELEPHONE NUMBER and FEATURE combinations on different MWLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TELEPHONE NUMBERs on the MWLPA 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 * FEATURE

Description: Enter the Feature Name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a multiway feature defined on the MWFD form, except it must not be a wild card feature.

2.4 N-WAYS

Description: Enter the number of terminals allowed in an N-Way call.
Valid Entries: 0, 3, 4, 5 or 6

2.5 TONE DURATION

Description: Enter the duration of party departure tone (single beep only) in milliseconds. The normal duration is 300 milliseconds.
Valid Entries: 0, 200, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900 or 4000 (milliseconds)

2.6 DIRECT CONN DN

Description: Enter a Direct Connect Directory Number. Entries are typically 1, 3, 7, 8, 10 or 11 digits or an IDDD number.
Valid Entries: 1 - 15 digits

```
mwlpa                              5ESS Switch            _
(5602-3)                    OFFICE DATA ADMINISTRATION
                      MULTIWAY CALLING LINE (TN) PARAMETERS

*1. TELEPHONE NUMBER   6682501
*2. FEATURE            0
 3. N-WAYS             3
 4. TONE DURATION      0300
 5. DIRECT CONN DN     _______________
```

Figure 1 SAMPLE MWLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
mwlpa                               5ESS Switch           _
                            OFFICE DATA ADMINISTRATION
(5602-3)               MULTIWAY CALLING LINE (TN) PARAMETERS

*1. TELEPHONE NUMBER __________
```

```
*2. FEATURE           _________
 3. N-WAYS            _
 4. TONE DURATION     _____
 5. DIRECT CONN DN    _________________
```

Figure 2 SAMPLE MWLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 3C: 5602-4
MULTIWAY CALLING
LINE (MLHG/TERM) PARAMETER FORM - MWMPA

1. GENERAL

The 5602-4 Record is available with 5E2 and later Software Releases, and is used to define Multiway Calling Multi-Line Hunt Group Parameters.

The parameter form for Multiway Calling will be used when a Multiway constructed feature is assigned to a terminal (line or trunk), and the desired parameters are different from the default parameters on the MWFD Form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.27.

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 * MLHG

Description: Enter the Multi-Line Hunt Group Number.

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

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Terminal (member) Number.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
B911	Line to an Emergency Bureau.
INDIV	Individual Line.
PBX	Line to a PBX.
SATSTLN	Stand-Alone Test Line.
4WINDIV	4-Wire Individual Line or 4-Wire manual PBX.
ISDN	Digital Subscriber Line associated ISDN (Integrated Service Digital Network) Service.
ISATND	ISDN attendant.

2.4 * FEATURE

Description: Enter the Feature Name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a Multiway feature defined on the MWFD form, except it may not be a wild card feature.

2.5 N-WAYS

Description: Enter the number of terminals allowed in a N-way call.
Valid Entries: 0, 3, 4, 5 or 6

2.6 TONE DURATION

Description: Enter the duration of party departure tone (single beep only) in milliseconds. The normal duration is 300 milliseconds.
Valid Entries: 0, 200, 300, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3600, 3900 or 4000 (milliseconds)

2.7 DIRECT CONN DN

Description: Enter a Direct Connect Directory Number. Entries are typically 1, 3, 7, 8, 10 or 11 digits or an IDDD number.
Valid Entries: 1 - 15 digits

```
mwmpa                              5ESS Switch             _
(5602-4)                    OFFICE DATA ADMINISTRATION
                 MULTIWAY CALLING LINE (MLHG/TERM) PARAMETERS

*1. MLHG               0048
*2. TERM               0015
*3. FEATURE            0
 4. N-WAYS             3
 5. TONE DURATION      0300
 6. DIRECT CONN DN     _______________
```

Figure 1 SAMPLE MWMPA FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 3D: 5602-5
MULTIWAY CALLING
TRUNK PARAMETER FORM - MWTPA

1. GENERAL

The 5602-5 Record is available with 5E2 and later Software Releases, and is used to define Multiway Calling Trunk Parameters.

The Trunk Parameter Form is used when a multiway constructed feature is assigned to a terminal (line or trunk) and the desired parameters are different from the default parameters on the MWFD form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.27.

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 * TGN

Description: Enter the TGN (Trunk Group Number).

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be one of the following.

TRKCLS	
PF	Private Facility
PFLASH	Private Facility Feature Flash
PFITT	Private Facility Intertandem trunk

2.3 * MEMB

Description: Enter the Trunk Group Member number.

Required Field.
Valid Entries: 0 - 1951

2.4 * FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a multiway feature defined on the MWFD form, except it may not be a wild card feature.

2.5 N-WAYS

Description: Enter the number of terminals allowed in an N-way call.
Valid Entries: 0, 3, 4, 5 or 6

2.6 TONE DURATION

Description: Enter the duration of party departure tone (single beep only) in milliseconds. The normal duration is 300 milliseconds.
Valid Entries: 0, 200, 300, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900 or 4000 (milliseconds)

2.7 DIRECT CONN DN

Description: Enter a Direct Connect Directory Number. Entries are typically 1, 3, 7, 8, 10 or 11 digits or an IDDD number.
Valid Entries: 1 - 15 digits

```
mwtpa                         5ESS Switch            _
(5602-5)                OFFICE DATA ADMINISTRATION
                    MULTIWAY CALLING TRUNK PARAMETERS

*1. TGN                 0033
*2. MEMB                0025
*3. FEATURE             ABC
 4. N-WAYS              6
 5. TONE DURATION       0300
 6. DIRECT CONN DN      _______________
```

Figure 1 SAMPLE MWTPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 4: CALL WAITING FORMS

SEC. 4A: 5603-1 RECORD
CALL WAITING FEATURE DEFINITION FORM - CWTFD

1. GENERAL

The 5603-1 Record is available with 5E2(2) and later Software Releases. It is used to define a number of separate features by selecting various feature options for Call waiting. The provided features are Call Waiting Terminating, distinctive tones for Call Waiting Terminating, Call Waiting Originating Dial Call Waiting, Call Waiting - Incoming only and Attendant Camp-On.

Each feature is given a feature name of from one to eight characters which is used to assign the constructed (defined) feature to lines.

1.1 Pre-defined Call Waiting Features

Certain Call Waiting features are pre-defined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed Call Waiting features is contained in Figure 1.

1.2 Recent Change View

The corresponding Recent Change View for this form is 12.15.

2. FORM AND RECORD ENTRIES - ESS
5603-1 RECORD

2.1 BASE AND CONTROL NUMBER, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * FEATURE NAME

Description: Enter the Feature Name.

Feature names may be from one to eight characters long, with no restrictions on the valid characters, except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment of up to 32 characters.
Valid Entries: 1 - 32 characters

ACTIVATION

Fields (Section 2.4 - Section 2.7) specify the Call Waiting activation options.

2.4 ACT TYPE

Description: Enter the method of feature Activation.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
CODE	Used to indicate that activation allowed for this feature is by dialing a code.
AUTO	Used to indicate no customer activation. Upon assignment the feature is made active and is ready to be used.

Data Rules:

If ACT TYPE equals "AUTO", then DACT TYPE must be "NONE" or "CODE".

If ACT TYPE is CODE and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan), and at least one dialed code of the IDP (on the IDPDCA Form) ESS 5601-1/2 Record should have ACTION equal to FTACT and a FEATURE associated with the dialed code on the IDPDCA Form equal to this Call Waiting feature, or CWOACT if INVOCATION is ORIG or CODE, and the FEATURE associated with the dialed code on the IDPDCA Form must be that of the Call Waiting "wild-card" feature (/CW*) or CWTACT if INVOCATION is TERM and the FEATURE associated with the dialed code on the IDPDCA Form must be that of the Call Waiting "wild-card" feature (/CW*).

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to FTACT and a FEATURE associated with the dialed code on the PDIT Form equal to this Call Waiting feature, or CWOACT if INVOCATION is ORIG or CODE and the FEATURE associated with the dialed code on the PDIT Form must be that of the Call Waiting "wild-card" feature (/CW*), or CWTACT if INVOCATION is TERM and the FEATURE associated with the dialed code on the PDIT Form must be that of the Call Waiting "wild-card" feature (/CW*).

If Telephone Numbers on the LINEFA form or Multi-Line Hunt Group Terminal Numbers on the MLHLNFA form are assigned a Call Waiting Feature with the Activation Type entry set to "AUTO" on the CWTFD form, the corresponding Initial Activation Status entry on the LINEFA form or MLHLNFA form, the BFG form or an associated CLUSTR form must be "Y".

2.5 DACT TYPE

Description: Enter the method of feature Deactivation.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
CODE	Used to indicate that deactivation allowed for this feature is by dialing a code.
NONE	Used to indicate no customer deactivation is allowed. The feature can never be deactivated from the customer's station, except by a Service Order request through the switch owner.
AUTO	Used to indicate no customer deactivation. The feature is inactive upon assignment and stays inactive until a valid activation code is dialed.

Data Rules:

If ACT TYPE is set to "AUTO", the DACT TYPE must be equal to "NONE" or "CODE".

If ACT TYPE is set to "CODE", the DACT TYPE must be equal to "AUTO" or "CODE".

If DACT TYPE is "CODE" and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan), and at least one dialed code of the IDP (on the IDPDCA Form) should have ACTION equal "FTDCT" and a FEATURE associated with the dialed code on the IDPDCA Form equal to this Call Waiting feature.

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code ACTION equal to "FTDCT", and a FEATURE associated with the dialed code on the PDIT Form equal to this Call Waiting feature. If the ACTION is equal to "CWTDCT", the FEATURE associated with the dialed code on the PDIT Form must be that of the Call Waiting "wild-card" feature (/CW*).

2.6 INVOCATION

Description: Enter the type of Invocation. Required Field.
Default Value: TERM

Valid INVOCATION Entries

Entry	Definition
CODE	Used if the line with this feature is to invoke Call Waiting by dialing a code. When this option is selected, the customer may then dial the code followed by the terminating line's Telephone Number, if the terminating line is busy it will receive Call Waiting tone.
ORIG	Used if all calls originated from a line with this feature to a busy line within the originator's terminal group will send Call Waiting tone to the terminating line.
PTRM	Similar in use to RTRM except that the tone will indicate to this line when the call waiting has a higher precedence level than the existing call. (This assumes that the line does not have the parameter IMMED PREEMPTION equal to Yes. If it did, this feature would not be invoked.)
RTRM	Used only for lines which have also been assigned a Precedence and Preemption BRCS feature, see the PPFD Form, ESS 5618-1 Record. This is a special type of Call Waiting Terminating feature and combined with a unique CDPTY TONE INDICATOR will indicate to this line when a call is waiting that is either of routine precedence or a lower precedence than the existing call. Any line which is assigned a Call Waiting feature with this INVOCATION type, must also be assigned a Call Waiting feature with the INVOCATION equal to TERM.
TERM	Used if the line with this feature is to receive Call Waiting tone whenever any call meeting the specified CALL SELECTION criteria attempts to terminate to it and the line is busy.

Any line which is assigned a Call Waiting feature with this INVOCATION type, must also be assigned a Call Waiting feature with the INVOCATION equal to TERM.

Data Rules:

CODE:
If dial Call Waiting (INVOCATION is "CODE"), Call Waiting Originating (INVOCATION is "ORIG") and Call Waiting Terminating (INVOCATION is "TERM") are assigned to a line, then dial Call Waiting takes precedence over Call Waiting Terminating, and Call Waiting Terminating takes precedence over Call Waiting Originating.

If "CODE" is entered, then the line with this feature should normally be assigned an IDP and at least one dialed code of the IDP (on the IDPDCA Form) should have ACTION equal to "CWDLU", and the FEATURE associated with the dialed code on the IDPDCA Form must be that of the Call Waiting "wild-card" feature (/CW*), or equal to this Call Waiting feature.

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "CWDLU" and the FEATURE associated with the dialed code on the PDIT Form must be that of the Call Waiting "wild-card" feature (/CW*), or equal to this Call Waiting feature.

For 5E6 and later, if "CODE" is entered, then CALLED PTY TONE INTERVAL must be 10.

PTRM and RTRM:
For 5E8 and later, if "PTRM" or "RTRM" is entered, then LONG DST DT must be "NORMAL".

ORIG:
For 5E6 and later, if "ORIG" is entered, CALLED PTY TONE INTERVAL must be 10.

2.7 FLASH ON FORWARD?

Description: Is a called party allowed to be connected to a Call Waiting party and place the original party in a hold state?

If a flash is not allowed for the specific Call Waiting feature, it will be ignored. The Call Waited party may disconnect the current call and be rungback by the Call Waiting party.

Required Field.
Default: Y, N

NOTE: The default and only value is "Y", except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

BRIDGE TO FEATURE

Field Section 2.8 specifies the bridge to Multiway feature.

2.8 MULTIWAY

Description: Enter a Multiway feature name if FLASH ON FORWARD is "Y".

Multiway feature name may be from one to eight characters long, with no restrictions on the valid characters. However wild-card feature (/MW*) is not allowed.

If flashing is allowed for the specific Call Waiting feature, the feature will place the original party in a hold state and connect to the Call Waiting party. At this time, call processing control is passed to the Multiway feature where it has an entry point from Call Waiting.
Valid Entries: 1 - 8 characters

Data Rules:

If FLASH ON FORWARD is "Y", the assigned MW feature must have the following characteristics equal to "Y" on the MWFD Form (5602-1/2 Record):

ENTRY POINT for CALL WAITING

HOLD ORIG PTY for ATTENDANT

HOLD ORIG PTY for INTRAGRP

HOLD ORIG PTY for INTRAOFC

HOLD ORIG PTY for INTEROFC

HOLD ORIG PTY for PVTFAC

HOLD ADDED PTY for ATTENDANT must equal ATTENDANT on the CWTFD Form

HOLD ADDED PTY for INTRAGRP must equal INTRA TERMINAL GROUP on the CWTFD Form

HOLD ADDED PTY for INTRAOFC must equal INTRA OFFICE on the CWTFD Form

HOLD ADDED PTY for INTEROFC must equal INTER OFFICE on the CWTFD Form

HOLD ADDED PTY for PVTFAC must equal PRIVATE FACILITY ACCESS on the CWTFD Form.

INDICATORS

Fields (Section 2.9 - Section 2.11) specify the various indications for the calling and called parties.

2.9 CDPTY TONE INDICATOR

Description: Enter the Called Party Indicator Tone.

CDPTY Tone alerts a talking party of an incoming call. The indicator is in the form of tone patterns.

Required Field.
Default: BEEP1
Valid Entries:

Valid CDPTY TONE INDICATOR Entries

Entry	Definition
BEEP1	Called party receives one beep
BEEP2	Called party receives two beeps
BEEP3	Called party receives three beeps

2.10 CGPTY TONE INDICATOR

Description: Enter Calling Party Tone Indicator.

This field specifies the various indications that a calling party should receive.

Required Field.
Default: RING
Valid Entries:

Valid CGPTY TONE INDICATOR Entries

Entry	Definition
BEEP1	Calling party receives one beep followed by audible ring.
BEEP2	Calling party receives two beeps followed by audible ring.
BEEP3	Calling party receives three beeps followed by audible ring.
BUSY	Calling party receives a busy tone. When this field is busy, the calling party receives a "beep" followed by "silence" because of the Attendant Camp-On with Silence Field Feature.
RING	Calling party receives an audible ring
SILENCE	Software Release: 5E4(2) and later. Calling party receives one beep followed by silence.
MUSIC	Software Release: 5E7 and later. Music is given to the calling party.

Data Rules:

Secured Feature ID 64 must be set to "S" ("Y" for 5E9(1) and later) on the SFSYS form (Record 5713-1) in order for CGPTY TONE INDICATOR to be set to "MUSIC" for constructed features.

When CGPTY TONE INDICATOR is "MUSIC", INVOCATION must be either "ORIG" or "CODE".

If CGPTY TONE INDICATOR is "MUSIC" on this form for a Call Waiting feature assigned to a TN or MLHG/MEMB on a LINEFA, MLHLNFA, CLUSTR, or BFG form, then the TN or MLHG/MEMB must also have a TGSR feature assigned with MOH ALW set to "Y" on either the TGSRFD, TGSRLPA, TGSRMPA, or BFG form.

2.11 DEPTY TONE INDICATOR

Description: Enter the Party Departure Tone Indicator. DEPTY Tone Indicator is of the review operation. This field has the default and only value of "NONE".

Required Field.
Default: NONE
Valid Entries:

Valid DEPTY TONE INDICATOR Entries

Entry	Definition
BEEP1	One beep.
BEEP2	Two beeps.
BEEP3	Three beeps.
LEAVE	Party leaving tone.
NONE	No tone.

BILLING

Field Section 2.12 specifies the type of calling party billing to be used.

2.12 CALLING PARTY BILL

Description: Enter whether the calling party will be billed normally, not at all, or in some special manner.

Required Field.
Default: NORMAL
Valid Entries:

Valid CALLING PARTY BILL Entries

Entry	Definition
NORMAL	Indicates billing the calling party when there is a connection between the calling party and the called party.
NEVER	Indicates never billing the calling party.
AFTER	Indicates billing the calling party x seconds after any kind of calling party treatment beings (a tone or an announcement but not audible ring or busy tone). If an answer occurs before the time interval x.

The default and only value is NORMAL, except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

CHANGE PARAMETER

Field Section 2.13 - Section 2.14 specifies whether the customer is allowed to change parameters.

2.13 CHANGE CDPTY TONE INTERVAL

Description: Is the customer is allowed to change the called party tone interval by dialing a code.

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

Data Rules:

CHANGE CDPTY TONE INTERVAL must equal "N" if INVOCATION is set to "ORIG" or "CODE".

IF CHANGE CDPTY TONE INTERVAL is "Y", and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan), and at least one dialed code of the IDP (on the IDPDCA) Form should have ACTION equal to "CWXCH" and have FEATURE associated with the dialed code on the IDPDCA Form equal to this Call Waiting feature.

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "CWXCH", and FEATURE associated with the dialed code on the PDIT Form equal to this Call-Waiting feature.

2.14 CW DELUXE

Description: Activate Call Waiting Deluxe for this feature? For more information on the secured feature Call Waiting Deluxe, see Division 2, Section 4A145.

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

Data Rules:

When CW DELUXE is "Y" then MULTIWAY must be entered and must be "/MWCWAC", "/MWCWGO" , "/MWCWIO", or "/MWCWNG".

When CW DELUXE is "Y", INVOCATION must be "TERM".

When Call Waiting Deluxe features are defined on this form with CW DELUXE set to "Y", then

- ACT for SFID 145 on the SFSYS form must be "Y" before LINE forms can have a Call Waiting Deluxe feature assigned on the LINEFA, CLUSTR, and/or BFG form.
- if LINE forms have Call Waiting Deluxe features assigned on the LINEFA, CLUSTR, and/or BFG form, the LCC and RAX of the line must be defined on the LCC form with CLASS OF SERVICE set to "INDIV" or "PBX".
- if LINE forms have Call Waiting Deluxe features assigned on the LINEFA, CLUSTR, and/or BFG form, on the LINE form, then SUSO, SUST, SHARED must be "N" and ASSOC OE TYPE and NUMBER must not be entered.
- if Remote Call Forwarding features are defined on the CFWFD form where FORWARD is "BOTH", ACT TYPE is "AUTO", and DACT TYPE is "NONE", then LINE forms cannot have both a Call Waiting Deluxe and Remote Call Forwarding feature assigned on the LINEFA, CLUSTR and/or BFG form.
- these features are not assignable to ISDN lines defined on the DLUSR form. Therefore, LINEFA, MLHLNFA, CLUSTR and/or BFG forms associated with an ISDN line cannot have a Call Waiting Deluxe feature name entered.

- these features are not assignable to multi-line hunt lines defined on the MLHLN form. Therefore, MLHLNFA, CLUSTR and/or BFG forms associated with a multi-line hunt line cannot have a Call Waiting Deluxe feature name entered.

CALL SELECTION

Fields (Section 2.15 - Section 2.19) specify the conditions under which a called line should be call waited. For a call to be call waited, the following five options are used as criteria. Any of the following five options may be specified.

2.15 ATTENDANT

Description: Enter "Y" if ATTENDANT calls are call-waited, or "N" if not.

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

> ***NOTE:*** The default and only value is "Y", except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.16 INTRA OFFICE

Description: The incoming call is an intraoffice, non-private facility call, and the incoming call and the called line are not members of the same Terminal Group and the incoming call is not from the attendant. Enter "Y" (Yes) if intraoffice calls are call-waited, or "N" (No) if not.

The default and only value is Y, except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

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

2.17 INTER OFFICE

Description: The incoming call is an interoffice, non-private facility and the incoming call and the called line are not in the same Terminal Group and the incoming call is not from the attendant. Enter "Y" if interoffice calls are call-waited, or "N" if not.

The default and only value is Y, except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

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

Data Rules:

For 5E8 and later, if "N" is entered, LONG DST DT must be "NORMAL".

2.18 INTRA TERMINAL GROUP

Description: The incoming call belongs to the same Terminal Group as the called line and the incoming call is not from the attendant. Enter "Y" if intra Terminal Group calls are call waited, or "N" if not.

The default and only value is "Y", except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

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

2.19 ATTENDANT PRIVATE FACILITY ACCESS

The incoming call is from a private facility and not from an attendant. Enter "Y" if private facility access calls are call-waited, or "N" if not.

The default and only value is Y, except for Call Waiting features derived from the preconstructed features using the ODA change-insert mode of the review operation.

DEFAULT PARAMETERS

The following fields (Section 2.20 - Section 2.21) define the default parameters assigned with the feature to lines. These parameters are assigned to the line unless they are over-ridden by entries on the CWTLPA or CWTMPA forms.

2.20 CALLED PTY TONE INTERVAL

Description: Enter the interval at which the called party receives beeps.
Default: 10 (seconds) Valid Entries: 0 - 60 (seconds)

Data Rules:

For 5E6 and later , when INVOCATION is "ORIG" or "CODE", CALLED PTY TONE INTERVAL must be "10".

2.21 LONG DST DT

Description: Long Distance Distinctive Tone specifies whether a distinctive call waiting tone is given when the called party receives a long distance incoming call. The NPA/NXX entries on the LOCSCRN form (5545 Record) determines when this would apply. This field supports the Call Waiting Distinctive Tone and Distinctive Ringing for Long Distance Calls feature. For more information on this feature, see Division 2, Section 4A91.

Software Release: 5E8 and later.
Required Field.
Default: NORMAL
Valid Entries:

Valid LONG DST DT Entries

Entry	Definition
DTONE	Provide normal call waiting treatment for non-long distance calls and call waiting distinctive tone pattern E for long distance calls.
NORMAL	Both local and long distance calls receive the "normal" call waiting tones.
ONLY	Provide call waiting distinctive tone pattern E only for long distance calls.

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured

Feature that must be purchased by the office before the LONG DST DT field can be changed from its default value on either the BFG, CWTFD, CWTLPA or CWTMPA forms. If the SFID 91 ACT field is not set to "Y" on the SFSYS form (5713-1 Record), then the LONG DST DT field must be "NORMAL".

CALL WAITING DELUXE

The following fields define the office parameters for Call Waiting Deluxe. These fields support the Call Waiting Deluxe Phase II Feature. This is a secured feature with SFID 145. For more information on this feature, see Division 2, Section 4A145.

2.22 ALERT TYPE

Description: Enter the Call Waiting Deluxe Alerting Type. The user and/or the CPE is alerted of an incoming call by way of a tone.

Software Release: 5E10 and later.
Default: OFCALERT
Valid Entries:

Valid ALERT TYPE Entries - 5E10 and later

Entry	Definition
OFCALERT	Office value
CWD	SAS only with non-ADSI per-call options allowed
CWD1	SAS & CAS with non-ADSI per-call options restricted
CWD2	SAS & CAS with non-ADSI allowed

Data Rules:

When ALERT TYPE is not "OFCALERT", CW DELUXE must be "Y".

2.23 DFLT OPT

Description: Default Service Option is a treatment applied to incoming calls when the user does not select a per-call option.

Software Release: 5E10 and later.
Default: OFCDFLTOPT
Valid Entries:

Valid DFLT OPT Entries - 5E10 and later

Entry	Definition
OFCDFLTOPT	Office value
CONTRING	Continue providing waiting party audible ringing
CALLFWD	Forward waiting call to CFDA destination
DEFANNC	Connect waiting call to default announcement

Data Rules:

When DFLT OPT is not "OFCDFLTOPT", CW DELUXE must be "Y".

2.24 USG SENS CONF

Description: Usage Sensitive Conference is used to track the usage of conferencing.

Software Release: 5E10 and later.
Default: OFCCONF

Valid Entries:

Valid USG SENS CONF Entries - 5E10 and later

Entry	Definition
OFCCONF	Office value
NO	Do not provide usage sensitive AMA for conferencing on this line
YES	Provide usage sensitive AMA for conferencing on this line

Data Rules:

When USG SENS CONF is not "CWDELUXE", CW DELUXE must be "Y".

TALKING CALL WAITING

2.25 TCW

Description: This field is used in determining whether or not Talking Call Waiting is assigned to the Call Waiting feature.

Software Release: 5E12 and later.
Default: N
Valid Entries: Y, N

Data Rules:

When TCW is "Y", INVOCATION must be "TERM".

MDNL CALL WAITING

The following fields (Section 2.26 - Section 2.28) support the MDR/CW/CF Interaction Enhancement (FAX Ring) Feature. This is a secured feature using SFID 535. For more information on this feature, see Division 2, Section 4A535.

2.26 INH CW MASTER

Description: Is Call Waiting inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW MASTER must be "N".

If INH CW MASTER is "Y", then INH CW DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.27 INH CW DEPEND

Description: Is Call Waiting inhibited for the dependent TN of a line using MDR?

Software Release: 5E14
Default: N

Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW DEPEND must be "N".

If INH CW DEPEND is "Y", then INH CW MASTER must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.28 INHIBIT MDNL CW

Description: This field is used in determining whether or not Call Waiting is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CW must be "NONE".

ESS 5603-1A(6/95)TG-5 CALL WAITING FEATURE DEFINITION RECORD DATE ___________
CWTFD 5ESS SWITCH
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	ACTIVATION				BRDG TO FEATURE	INDICATORS			BILL CHANGE	CHANGE PARM	
		ACT TYPE	DACT TYPE	INVOKE	FLASH	MULTI WAY	CLD PTY	CLG PTY	DEP PTY	CLG PTY	CTHO GN E CI DN PT TV	CW DELU XE

											YL	
/CW*	WILD CARD CALL WAITING FEATURE	AUTO	NONE	TERM	Y	/MWCWAC	BEEP1	RING	NONE	NORMAL	Y	N
/CWACO	ATTENDANT CAMP ON	AUTO	NONE	ORIG	Y	MWCWIG	BEEP1	BEEP1	NONE	NORMAL	N	N
/CWACODT	ATTENDANT CAMP ON W/DISTINCTIVE TONES	AUTO	NONE	ORIG	Y	/MWCWIG	BEEP3	BEEP1	NONE	NORMAL	N	N
/CWC1	CALL WAITING W/CANCEL 1 (POTS)	AUTO	CODE	TERM	Y	/MWCWAC	BEEP1	RING	NONE	NORMAL	N	N
/CWC1DT1	CW W/CANCEL 1 W/DIST. TONES 1	AUTO	CODE	TERM	Y	/MWCWGO	BEEP1	RING	NONE	NORMAL	N	N
/CWC1DT2	CW W/CANCEL 1 W/DIST. TONES 2	AUTO	CODE	TERM	Y	/MWCWNG	BEEP2	RING	NONE	NORMAL	N	N
/CWC2	CALL WAITING W/CANCEL 2 (BUS.)	AUTO	CODE	TERM	Y	/MWCWIO	BEEP1	RING	NONE	NORMAL	N	N
/CWC2DT	CW W/CANCEL 2 W/DIST. TONES	AUTO	CODE	TERM	Y	/MWCWIO	BEEP2	RING	NONE	NORMAL	N	N
/CWD	DIALED CALL WAITING	AUTO	NONE	CODE	Y	/MWCWIG	BEEP1	RING	NONE	NORMAL	N	N
/CWDC1	CW DELUXE W/CANCEL 1 (POTS)	AUTO	CODE	TERM	Y	/MWCWAC	BEEP1	RING	NONE	NORMAL	N	Y
/CWDC2	CW DELUXE W/CANCEL 2 (BUS.)	AUTO	CODE	TERM	Y	/MWCWIO	BEEP1	RING	NONE	NORMAL	N	Y
/CWDC2DT	CW DELUXE W/CANC 2 W/DIST TONES	AUTO	CODE	TERM	Y	/MWCWIO	BEEP2	RING	NONE	NORMAL	N	Y
/CWDCDT1	CW DELUXE W/CANC 1 W/DIST TONE 1	AUTO	CODE	TERM	Y	/MWCWGO	BEEP1	RING	NONE	NORMAL	N	Y
/CWDCDT2	CW DELUXE W/CANC 1 W/DIST TONE 2	AUTO	CODE	TERM	Y	/MWCWNG	BEEP1	RING	NONE	NORMAL	N	Y
/CWDDT	DIALED CALL WAITING W/DIST. TONES	AUTO	NONE	CODE	Y	/MWCWIG	BEEP3	RING	NONE	NORMAL	N	N
/CWDIO	CW DELUXE INCOMING ONLY	AUTO	NONE	TERM	Y	/MWCWIO	BEEP1	RING	NONE	NORMAL	N	Y
/CWDIODT	CW DELUXE INC ONLY W/DIST TONES	AUTO	NONE	TERM	Y	/MWCWIO	BEEP2	RING	NONE	NORMAL	N	Y

/CWDM	DIALED CALL WAITING MUSIC ON HOLD	AUTO	NONE	CODE	Y	/MWCWIG	BEEP 1	MUSIC	NONE	NORMAL	N	N
/CWDT	CW DELUXE TERMINATING	AUTO	NONE	TERM	Y	/MWCWAC	BEEP 1	RING	NONE	NORMAL	N	Y
/CWDTDT1	CW DELUXE TERM W/DIST. TONES 1	AUTO	NONE	TERM	Y	/MWCWGO	BEEP 1	RING	NONE	NORMAL	N	Y
/CWDTDT2	CW DELUXE TERM W/DIST. TONES 2	AUTO	NONE	TERM	Y	/MWCWNG	BEEP 2	RING	NONE	NORMAL	N	Y

Figure 1 5E9(1) AND LATER PRECONSTRUCTED CALL WAITING FEATURE LIST

ESS 5603-1B(6/95)TG-5 CALL WAITING FEATURE DEFINITION RECORD DATE ___________
CWTFD 5ESS SWITCH
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	CALL SELECT					DEF PARM	
		A T T N	I N T R A O F	I N T R E O F	I N T R A R T G	P F A	C I D N P T T V Y T O N E	L D O S N T G D T
/CW*	WILD CARD CALL WAITING FEATURE	Y	Y	Y	Y	Y	10	NORMAL
/CWACO	ATTENDANT CAMP ON	Y	N	N	Y	N	10	NORMAL
/CWACODT	ATTENDANT CAMP ON W/DISTINCTIVE TONES	Y	N	N	Y	N	10	NORMAL
/CWC1	CALL WAITING W/CANCEL 1 (POTS)	Y	Y	Y	Y	Y	10	NORMAL
/CWC1DT1	CW W/CANCEL 1 W/DIST. TONES 1	N	N	N	Y	N	10	NORMAL
/CWC1DT2	CW W/CANCEL 1 W/DIST. TONES 2	Y	Y	Y	N	Y	10	NORMAL
/CWC2	CALL WAITING W/CANCEL 2 (BUS.)	N	Y	Y	N	Y	10	NORMAL
/CWC2DT	CW W/CANCEL 2 W/DIST. TONES	N	Y	Y	N	Y	10	NORMAL
/CWD	DIALED CALL WAITING	Y	N	N	Y	N	10	NORMAL
/CWDC1	CW DELUXE W/CANCEL 1 (POTS)	Y	Y	Y	Y	Y	10	NORMAL
/CWDC2	CW DELUXE W/CANCEL 2 (BUS.)	N	Y	Y	N	Y	10	NORMAL
/CWDC2DT	CW DELUXE W/CANC 2 W/DIST TONES	N	Y	Y	N	Y	10	NORMAL
/CWDCDT1	CW DELUXE W/CANC 1 W/DIST TONE 1	N	N	N	Y	N	10	NORMAL

/CWDCDT2	CW DELUXE W/CANC 1 W/DIST TONE 2	Y	Y	Y	N	Y	10	NORMAL
FEATURE NAME	REMARKS	CALL SELECT					DEF PARM	
		ATTN	INTRAOF	INTREOF	INTRARTG	PFA	CIDNPTTVY TONE	L D O S N T G D T
/CWDDT	DIALED CALL WAITING W/DIST. TONES	Y	N	N	Y	N	10	NORMAL
/CWDIO	CW DELUXE INCOMING ONLY	N	Y	Y	N	Y	10	NORMAL
/CWDIODT	CW DELUXE INC ONLY W/DIST TONES	N	Y	Y	N	Y	10	NORMAL
/CWDM	DIALED CALL WAITING MUSIC ON HOLD	Y	N	N	Y	N	10	NORMAL
/CWDT	CW DELUXE TERMINATING	Y	Y	Y	Y	Y	10	NORMAL
/CWDTDT1	CW DELUXE TERM W/DIST. TONES 1	N	N	N	Y	N	10	NORMAL
/CWDTDT2	CW DELUXE TERM W/DIST. TONES 2	Y	Y	Y	N	Y	10	NORMAL
/CWIO	CW INCOMING ONLY	N	Y	Y	N	Y	10	NORMAL
/CWIODT	CW INCOMING ONLY W/DIST. TONES	N	Y	Y	N	Y	10	NORMAL
/CWO	CW ORIGINATING	Y	N	N	Y	N	10	NORMAL
/CWODT	CW ORIGINATING W/DIST. TONES	Y	N	N	Y	N	10	NORMAL
/CWOM	CW ORIGINATING MUSIC ON HOLD	Y	N	N	Y	N	10	NORMAL
/CWT	CW TERMINATING	Y	Y	Y	Y	Y	10	NORMAL
/CWTDT1	CW TERMINATING W/DIST. TONES 1	N	N	N	Y	N	10	NORMAL
/CWTDT2	CW TERMINATING W/DIST. TONES 2	Y	Y	Y	N	Y	10	NORMAL

Figure 2 5E9(1) AND LATER PRECONSTRUCTED CALL WAITING FEATURE LIST

```
cwtfd                           5ESS Switch
SCREEN 1 OF 3               OFFICE DATA ADMINISTRATION
(5603-1A/B)               CALL WAITING FEATURE DEFINITION

*1. FEATURE NAME AAAAA
 3. REMARKS      ________________________________

        ACTIVATION
 4. ACT TYPE         AUTO
 5. DACT TYPE        NONE
```

```
 6. INVOCATION       TERM
    FLASH ON FORWARD Y
  BRIDGE TO FEATURE
 8. MULTIWAY ________
```

```
cwtfd                             5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5603-1A/B)             CALL WAITING FEATURE DEFINITION

           INDICATORS                     CALL SELECTION
 9. CDPTY TONE INDICATOR BEEP1      ATTENDANT               Y
10. DEPTY TONE INDICATOR RING       INTRA OFFICE            Y
    DEPTY TONE INDICATOR NONE       INTER OFFICE            Y
                                    INTRA TERMINAL GROUP    Y
           BILLING                  PRIVATE FACILITY ACCESS Y
    CALLING PARTY BILL NORMAL
        CHANGE PARAMETER
13. CHANGE CDPTY TONE INTERVAL N
14. CW DELUXE                  N
```

```
cwtfd                             5ESS Switch             _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5603-1A/B)             CALL WAITING FEATURE DEFINITION

         DEFAULT PARAMETERS
20. CALLED PTY TONE INTERVAL 10
21. LONG DST DT              NORMAL
     CALL WAITING DELUXE
22. ALERT TYPE    OFCALERT
23. DFLT OPT      OFCDFLTOPT
24. USG SENS CONF OFCCONF

TALKING CALL WAITING
25. TCW N
```

Figure 3 SAMPLE CWTFD FORM 5E12 AND 5E13 SOFTWARE RELEASES

```
cwtfd                             5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5603-1A/B)             CALL WAITING FEATURE DEFINITION

*1. FEATURE NAME
 3. REMARKS      ________________________________

        ACTIVATION
 4. ACT TYPE         AUTO
 5. DACT TYPE        NONE
```

```
 6. INVOCATION       TERM
    FLASH ON FORWARD Y
  BRIDGE TO FEATURE
 8. MULTIWAY ________
```

```
cwtfd                             5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5603–1A/B)             CALL WAITING FEATURE DEFINITION

           INDICATORS                     CALL SELECTION
 9. CDPTY TONE INDICATOR BEEP1      ATTENDANT               Y
10. DEPTY TONE INDICATOR RING       INTRA OFFICE            Y
    DEPTY TONE INDICATOR NONE       INTER OFFICE            Y
                                    INTRA TERMINAL GROUP    Y
           BILLING                  PRIVATE FACILITY ACCESS Y
    CALLING PARTY BILL NORMAL
        CHANGE PARAMETER
13. CHANGE CDPTY TONE INTERVAL N
14. CW DELUXE                  N
```

```
cwtfd                             5ESS Switch            _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5603–1A/B)             CALL WAITING FEATURE DEFINITION

         DEFAULT PARAMETERS             MDNL CALL WAITING
20. CALLED PTY TONE INTERVAL 10        26. INH CW MASTER N
21. LONG DST DT              NORMAL    27. INH CW DEPEND N

     CALL WAITING DELUXE
22. ALERT TYPE    OFCALERT
23. DFLT OPT      OFCDFLTOPT
24. USG SENS CONF OFCCONF

TALKING CALL WAITING
25. TCW N
```

Figure 4 SAMPLE CWTFD FORM 5E14 SOFTWARE RELEASES

```
cwtfd                             5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5603–1A/B)             CALL WAITING FEATURE DEFINITION

*1. FEATURE NAME ________
```

```
 3. REMARKS      ________________________________

        ACTIVATION
 4. ACT TYPE         AUTO
 5. DACT TYPE        NONE
 6. INVOCATION       TERM
    FLASH ON FORWARD Y
  BRIDGE TO FEATURE
 8. MULTIWAY ________
```

```
cwtfd                             5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5603-1A/B)             CALL WAITING FEATURE DEFINITION

           INDICATORS                     CALL SELECTION
 9. CDPTY TONE INDICATOR BEEP1      ATTENDANT               Y
10. DEPTY TONE INDICATOR RING       INTRA OFFICE            Y
    DEPTY TONE INDICATOR NONE       INTER OFFICE            Y
                                    INTRA TERMINAL GROUP    Y
           BILLING                  PRIVATE FACILITY ACCESS Y
    CALLING PARTY BILL NORMAL
        CHANGE PARAMETER
13. CHANGE CDPTY TONE INTERVAL N
14. CW DELUXE                  N
```

```
cwtfd                             5ESS Switch           _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5603-1A/B)             CALL WAITING FEATURE DEFINITION

         DEFAULT PARAMETERS                 MDNL CALL WAITING
20. CALLED PTY TONE INTERVAL 10        26. INHIBIT MDNL CW NONE
21. LONG DST DT              NORMAL

     CALL WAITING DELUXE
22. ALERT TYPE    OFCALERT
23. DFLT OPT      OFCDFLTOPT
24. USG SENS CONF OFCCONF

TALKING CALL WAITING
25. TCW N
```

Figure 5 SAMPLE CWTFD FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4B: 5603-2 RECORD
CALL WAITING LINE (TN) PARAMETER FORM - CWTLPA

1. GENERAL

The 5603-2 Record is available with 5E2 and later Software Releases. It is used to define specific parameters assigned to every non-Multi-Line Hunt line assigned with a specific constructed Call Waiting feature. It is required only if the default parameters assigned on the CWTFD form (5603-1 Record) are inappropriate.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL , ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * TN

Description: Enter a Telephone Number.

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:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Non-data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.

For 5E12 and later, TN/FEATURE combinations on different CWTLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the CWTLPA 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 * FEATURE

Description: Enter the Feature Name. There are no restrictions on valid characters.

Required Field.
Valid Entries: 1 - 8 characters

2.4 CDPTY TONE INTERVAL

Description: Enter the interval at which the called party receives beeps. Zero indicates no repetition.
Valid Entries: 0 - 60 (seconds)

Data Rules:

CDPTY TONE INTERVAL must equal 10 if INVOCATION on the CWTFD form equals ORIG or CODE.

2.5 LONG DST DT

Description: Long Distance Distinctive Tone specifies whether a distinctive call waiting tone is given when the called party receives a long distance incoming call. The NPA/NXX entries on the LOCSCRN (5545 Record) determine when this would apply.

Software Release: 5E8 and later.
Valid Entries:

Valid LONG DST DT Entries

Entry	Definition
DTONE	Provide normal call waiting treatment for non-long distance calls and call waiting distinctive tone pattern E for long distance calls. (See Division 2)
NORMAL	Both local and long distance calls receive the "normal" call waiting tones as specified in the CDPTY TONE INDICATOR field on the CWTFD form.
ONLY	Provide call waiting distinctive tone pattern E only for long distance calls. (See Division 2)

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured Feature that must be purchased by the office before the LONG DST DT field can have values other than "NORMAL" or unknown on either the BFG, CWTFD, CWTLPA, or CWTMPA forms. If the SFID 91 ACT field is not set to "Y" on the SFSYS form (5713-1 Record), then the LONG DST DT field must be "NORMAL".

If a TN on the LINEFA form has a CWT Feature assigned on either the LINEFA, CLUSTR, or BFG form, and the feature has either INVOCATION set to "PTRM" or "RTRM" or INTER OFFICE is set to "N" on the CWTFD form (5603-1 Record), then LONG DST DT must be "NORMAL" or unknown on either the BFG or corresponding CWTLPA form. If a CWT feature is assigned through a BFG that has any of the CWT parameters entered, then all CWT parameters on the BFG form are used.

CALL WAITING DELUXE

The following fields define the office parameters for Call Waiting Deluxe. These fields support the Call Waiting Deluxe Phase II Feature. This is a secured feature with SFID 145. For more information on this feature, see Division 2, Section 4A145.

For 5E10 and later, when CWTLPA forms, keyed by TN, have input fields ALERT TYPE not equal to "OFCALERT" or DFLT OPT not equal to "OFCDFLTOPT" or USG SENS CONF not equal to "OFCCONF", FEATURE must be defined on a CWTFD form with CW DELUXE equal to "Y".

2.6 ALERT TYPE

Description: Enter the Call Waiting Deluxe Alerting Type. The user and/or the CPE is alerted of an incoming call by way of a tone.

Software Release: 5E10 and later.
Default: OFCALERT
Valid Entries:

Valid ALERT TYPE Entries - 5E10 and later

Entry	Definition
OFCALERT	Office value
CWD	SAS only with non-ADSI per-call options allowed
CWD1	SAS & CAS with non-ADSI per-call options restricted
CWD2	SAS & CAS with non-ADSI allowed

2.7 DFLT OPT

Description: Default Service Option is a treatment applied to incoming calls when the user does not select a per-call option.

Software Release: 5E10 and later.
Default: OFCDFLTOPT
Valid Entries:

Valid DFLT OPT Entries - 5E10 and later

Entry	Definition
OFCDFLTOPT	Office value
CONTRING	Continue providing waiting party audible ringing
CALLFWD	Forward waiting call to CFDA destination
DEFANNC	Connect waiting call to default announcement

2.8 USG SENS CONF

Description: Usage Sensitive Conference is used to track the usage of conferencing.

Software Release: 5E10 and later.
Default: OFCCONF
Valid Entries:

Valid USG SENS CONF Entries - 5E10 and later

Entry	Definition
OFCCONF	Office value
NO	Do not provide usage sensitive AMA for conferencing on this line
YES	Provide usage sensitive AMA for conferencing on this line

TALKING CALL WAITING

2.9 TCW

Description: This field is used in determining whether or not Talking Call Waiting is assigned to the Call Waiting feature for this line only.

Software Release: 5E12 and later.
Default: N
Valid Entries: Y, N

MDNL CALL WAITING

The following fields (Section 2.10 - Section 2.12) support the MDR/CW/CF Interaction Enhancement (FAX Ring) Feature. This is a secured feature using SFID 535. For more information on this feature, see Division 2, Section 4A535.

2.10 INH CW MASTER

Description: Is Call Waiting inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW MASTER must be "N".

If INH CW MASTER is "Y", then INH CW DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.11 INH CW DEPEND

Description: Is Call Waiting inhibited for the dependent TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW DEPEND must be "N".

If INH CW DEPEND is "Y", then INH CW MASTER must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.12 INHIBIT MDNL CW

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CW must be "NONE".

```
cwtlpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-2)               CALL WAITING LINE (TN) PARAMETERS

*1. TN                  __________
*2. FEATURE             ________
#3. CDPTY TONE INTERVAL __
```

```
 4. LONG DST DT         ______

     CALL WAITING DELUXE
 5. ALERT TYPE    OFCALERT
 6. DFLT OPT      OFCDFLTOPT
 7. USG SENS CONF OFCCONF

TALKING CALL WAITING
 8. TCW N
```

Figure 1 SAMPLE CWTLPA FORM 5E12 AND 5E13 SOFTWARE RELEASES

```
cwtlpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-2)               CALL WAITING LINE (TN) PARAMETERS

*1. TN                  __________     MDNL CALL WAITING
*2. FEATURE             ________        9. INH CW MASTER N
#3. CDPTY TONE INTERVAL __            10. INH CW DEPEND N
 4. LONG DST DT         ______

     CALL WAITING DELUXE
 5. ALERT TYPE    OFCALERT
 6. DFLT OPT      OFCDFLTOPT
 7. USG SENS CONF OFCCONF

TALKING CALL WAITING
 8. TCW N
```

Figure 2 SAMPLE CWTLPA FORM 5E14 SOFTWARE RELEASES

```
cwtlpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-2)               CALL WAITING LINE (TN) PARAMETERS

*1. TN                  __________        MDNL CALL WAITING
*2. FEATURE             ________      9. INHIBIT MDNL CW NONE
#3. CDPTY TONE INTERVAL __
 4. LONG DST DT         ______

     CALL WAITING DELUXE
 5. ALERT TYPE    OFCALERT
 6. DFLT OPT      OFCDFLTOPT
 7. USG SENS CONF OFCCONF

TALKING CALL WAITING
 8. TCW N
```

Figure 3 SAMPLE CWTLPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 4C: 5603-3 RECORD
CALL WAITING LINE (MLHG/MEMB) PARAMETER FORM - CWTMPA

1. GENERAL

The 5603-3 Record is available with 5E2 and later Software Releases. It is used to define specific parameters assigned to every Multi-Line Hunt line associated with a specific constructed Call Waiting feature. It is required only if the default parameters assigned on the CWTFD form (5603-1 Record) are inappropriate.

Only Call Waiting originating and Dial Call Waiting can be assigned to MLHG/TERMs. Call Waiting Terminating cannot be assigned to MLHG/TERMs. Those Call Waiting features that are allowed have INVOCATION equal to "CODE" or "TERM" on the CWTFD form. Disallowed features have INVOCATION equal to "TERM", "RTRM" or "PTRM".

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * MLHG

Description: Enter a Multi-Line Hunt Group Number.

Required Field.
Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

2.3 * TERM

Description: Enter a Multi-Line Hunt Member Number.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.

2.4 * FEATURE

Description: Enter the feature name. There are no restrictions on the valid characters.

Required Field.
Valid Entries: 1 - 8 characters

2.5 CDPTY TONE INTERVAL

Description: Enter the interval at which the called party receives beeps. Zero indicates no repetition.
Valid Entries: 0 - 60 (seconds)

Data Rules:

CDPTY TONE INTERVAL must equal 10 if INVOCATION on the CWTFD form equals "ORIG" or "CODE".

2.6 LONG DST DT

Description: Long Distance Distinctive Tone specifies whether a distinctive call waiting tone is given when the called party receives a long distance incoming call. The NPA/NXX entries on the LOCSCRN (5545 Record) determine when this would apply.

Software Release: 5E8 and later.
Valid Entries:

Valid LONG DST DT Entries

Entry	Definition
DTONE	Provide normal call waiting treatment for non-long distance calls and call waiting distinctive tone pattern E for long distance calls.
NORMAL	Both local and long distance calls receive the "normal" call waiting tones as specified in the CALLED PTY TONE INTERVAL field on the CWTFD form (5603-1 Record).
ONLY	Provide call waiting distinctive tone pattern E only for long distance calls.

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured Feature that must be purchased by the office before the LONG DST DT field can have values other than "NORMAL" or unknown on either the BFG, CWTFD, CWTLPA, or CWTMPA forms. If the SFID 91 ACT field is not set to "Y" on the SFSYS form (5713-1 Record), then the LONG DST DT field must be "NORMAL".

If a CWT Feature assigned on either the MLHLNFA, CLUSTR, or BFG form and the feature has either the INVOCATION field set to "PTRM" or "RTRM" or the INTER OFFICE field set to "N" on the CWTFD form (5603-1 Record), then LONG DST DT must be "NORMAL" or unknown on either the BFG or corresponding CWTMPA form. If a CWT feature is assigned through a BFG that has any of the CWT parameters entered, then all CWT parameters on the BFG form are used.

CALL WAITING DELUXE

The following fields define the office parameters for Call Waiting Deluxe. They are Recent Change only fields and can not be entered. These fields support the Call Waiting Deluxe Phase II Feature. This is a secured feature with SFID 145. For more information on this feature, see Division 2, Section 4A145.

2.7 ALERT TYPE

Description: The Call Waiting Deluxe Alerting Type. The user and/or the CPE is alerted of an incoming call by way of a tone. This is a Recent Change field only and can not be entered.

Software Release: 5E10 and later.
Valid Entries:

Valid ALERT TYPE Entries - 5E10 and later

Entry	Definition
OFCALERT	Office value
CWD	SAS only with non-ADSI per-call options allowed
CWD1	SAS & CAS with non-ADSI per-call options restricted
CWD2	SAS & CAS with non-ADSI allowed

2.8 DFLT OPT

Description: Default Service Option is a treatment applied to incoming calls when the user does not select a per-call option. This is a Recent Change field only and can not be entered.

Software Release: 5E10 and later.
Valid Entries:

Valid DFLT OPT Entries - 5E10 and later

Entry	Definition
OFCDFLTOPT	Office value
CONTRING	Continue providing waiting party audible ringing
CALLFWD	Forward waiting call to CFDA destination
DEFANNC	Connect waiting call to default announcement

2.9 USG SENS CONF

Description: Usage Sensitive Conference is used to track the usage of conferencing. This is a Recent Change field only and can not be entered.

Software Release: 5E10 and later.
Valid Entries:

Valid USG SENS CONF Entries - 5E10 and later

Entry	Definition
OFCCONF	Office value
NO	Do not provide usage sensitive AMA for conferencing on this line
YES	Provide usage sensitive AMA for conferencing on this line

MDNL CALL WAITING

The following fields (Section 2.10 - Section 2.12) support the MDR/CW/CF Interaction Enhancement (FAX Ring) Feature. This is a secured feature using SFID 535. For more information on this feature, see Division 2, Section 4A535.

2.10 INH CW MASTER

Description: Is Call Waiting inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW MASTER must be "N".

If INH CW MASTER is "Y", then INH CW DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.11 INH CW DEPEND

Description: Is Call Waiting inhibited for the dependent TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW DEPEND must be "N".

If INH CW DEPEND is "Y", then INH CW MASTER must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.12 INHIBIT MDNL CW

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CW must be "NONE".

```
cwtmpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-3)           CALL WAITING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                ____        TALKING CALL WAITING
*2. TERM                ____        9. TCW N
*3. FEATURE             ________
#4. CDPTY TONE INTERVAL __
 5. LONG DST DT         ______

     CALL WAITING DELUXE
    ALERT TYPE    _________
    DFLT OPT      __________
    USG SENS CONF _______
```

Figure 1 SAMPLE CWTMPA FORM 5E12 THROUGH 5E13 SOFTWARE RELEASES

```
cwtmpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-3)           CALL WAITING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                ____        TALKING CALL WAITING
*2. TERM                ____        9. TCW N
*3. FEATURE             ________
#4. CDPTY TONE INTERVAL __           MDNL CALL WAITING
 5. LONG DST DT         ______         INH CW MASTER N
                                       INH CW DEPEND N
     CALL WAITING DELUXE
    ALERT TYPE    _________
    DFLT OPT      __________
    USG SENS CONF _______
```

Figure 2 SAMPLE CWTMPA FORM   5E14 SOFTWARE RELEASES

```
cwtmpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5603-3)           CALL WAITING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                ____        TALKING CALL WAITING
*2. TERM                ____        9. TCW N
*3. FEATURE             ________
#4. CDPTY TONE INTERVAL __              MDNL CALL WAITING
 5. LONG DST DT         ______         INHIBIT MDNL CW NONE

     CALL WAITING DELUXE
    ALERT TYPE    _________
    DFLT OPT      __________
    USG SENS CONF _______
```

Figure 3 SAMPLE CWTMPA FORM   5E15 AND LATER SOFTWARE RELEASES

SEC. 4D: 5603-4 RECORD
CALL WAITING TRUNK (TGN/MEMB) PARAMETERS - CWTTPA

1. GENERAL

The 5603-4 Record is available with 5E5 and later Software Releases. It is used to define specific parameters assigned to every trunk member associated with a specific constructed Call Waiting feature. It is required only if the default parameters assigned on the CWTFD form (5603-1 Record) are inappropriate.

Call Waiting can only be assigned to trunks with a TRKCLS of "PFLASH" and RLT TYPE of "PERM" or "TEMP" on the TKGRP form (Record 5202).

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.24.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TGN

Description: Enter the Trunk Group Number.

Required Field.
Valid Entries:
  For 5E10 and earlier: 1 - 2000
  For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be "PFLASH", Private Facility Feature Flash.

2.3 * MEMB

Description: Enter the trunk group member number.

Required Field.
Valid Entries: 0 - 1951

2.4 * FEATURE

Description: Enter the feature name. There are no restrictions on the valid characters.

Required Field.
Valid Entries: 1 - 8 characters

2.5 CLD PTY TONE INTERVAL

Description: Enter the interval at which the called party receives beeps. Zero indicates no repetition.
Valid Entries: 0 - 60 (seconds)

Data Rules:

CLD PTY TONE INTERVAL must equal 10 if INVOCATION on the CWTFD form is "ORIG" or "CODE".

2.6 BILLAFTX

Description: This field indicates how many seconds will lapse before billing the calling party. This is a no change field which is defaulted to 0.
Default: 0
Valid Entries: 0

```
cwttpa                           5ESS Switch             _
(5603-4)                  OFFICE DATA ADMINISTRATION
                   CALL WAITING TRUNK (TGN/MEMB) PARAMETERS

*1. TGN                   0001
*2. MEMB                  0005
*3. FEATURE               CWRLT
 4. CLD PTY TONE INTERVAL 10
    BILLAFTX
```

Figure 1 SAMPLE CWTTPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 5: MULTILINE HUNT GROUP FORMS

SEC. 5A: 5604 RECORD
MULTI-LINE HUNT GROUP
FEATURE DEFINITION FORM - MLHGFD

1. GENERAL

The 5604 Record is available with 5E2 and later Software Releases; it is used to describe the Multi-Line Hunt Group feature definition.

The Multi-Line Hunting capability provides hunting for multiple non-data link consoles, Uniform Call Distribution, queuing for lines and non-data link consoles, call waiting lamp control, delay treatment for queuing, and key control.

Certain MLHG features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.18.

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 * FEATURE NAME

Description: Enter a unique feature name to define the particular BRCS (Business and Residence Customer Services) feature. The first character cannot be a slash (/). Feature names starting with a slash are reserved for preconstructed features. See Figure 1 for the preconstructed MLHG feature names.

Required Field.
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

Each FEATURE NAME which is defined on the MLHGFD form must also be assigned on the MLHG form (5110 Record).

2.3 REMARKS

Description: Enter a descriptive comment to describe the meaning of the BRCS feature.
Valid Entries: 1 - 32 characters

2.4 # HUNT TYPE

Description: Enter the type of hunting for the MLHG.

Required Field.
Default: REG
Valid Entries:

Valid HUNT TYPE Entries

Entry	Definition
HTC	Circular Hunt is an arrangement in which hunting begins with the Terminal Number associated with the called number and continues sequentially through the last Terminal Number in the Multi-Line Hunt Group. Hunting resumes with Terminal Number 1 and continues through the Terminal Number preceding the Start Hunt Terminal Number.
ISAT	Software Release: 5E4(2) and later. ISDN Attendant Terminal Hunt. ISDN Attendant Terminals must be configured into hunt groups known as ISAT Multi-Line Hunt Groups. This HUNT TYPE is used to hunt these Multi-Line Hunt Groups.
MUPH	MUPH (Multiple Position Hunt) is a line hunting arrangement used by a business customer that has multiple non-data link attendant console positions. The services MUPH provides to multiple console positions are as follows: — Call regulation that allows only one call to ring at a console at any one time and prevents any new incoming calls from completing to a console position that is busy. —Even call distribution to Multiple Console positions in the MUPH group. —Access for up to six Call Types. — Hunting for up to thirty-two lines per console. — Hunting for up to sixteen consoles in the hunt group. — Optional queuing for calls when busy conditions are encountered.
PMHG	Software Release: 5E3 and later. Precedence Hunt. This entry is associated with an DSN(Defense Switched Network). This HUNT TYPE should be used, if the MLHG is preemptable. After hunting for an idle terminal, and one is not found, a preemptable hunt will be made by precedence level of existing calls, starting with the first preemptable member. Precedence levels are used to search by priority each succeeding level that is lower than the precedence call terminating.
PRRG	Precedence Regular Hunt. This entry is associated with an DSN(Defense Switched Network). This HUNT TYPE should be used if the MLHG is preemptable. After hunting for an idle terminal, and if one is not found, a preemptable hunt will be made by precedence level of existing calls, starting with the first preemptable member. Precedence levels are used to search by priority each succeeding level that is lower than the precedence call terminating.
PSUCD	Software Release: 5E3 and later. Packet Switching Uniform Call Distribution is a HUNT TYPE used with DSL groups that are designated for packet switching. For 5E8 and later, any packet MLHG with a hunt type of "PSUCD" can also subscribe to a Linear hunt option. The Linear hunt algorithm for packet MLHGs is similar to the Regular hunt type for circuit MLHGs. The linear hunt begins with the start hunt terminal number (entry point) and continues sequentially through the last terminal number of the MLHG. The Linear hunt type is provisioned on packet MLHGs by defining LNR HNT TNs (Linear entry points) on members of the MLHG. These MLHG members and their linear hunt TNs can be defined on the DSL form (as PPB1 TERM and PPB1 LNR HNT TN or PPB2 TERM and PPB2 LNR HNT TN), the DSLUSR form (as DPKT TERM and DPKT LNR HNT TN or ODB TERM and ODB LNR HNT TN), and the XAT form (as TERM NBR and LNR HNT TN). The Linear Hunt TN defined on member 1 of the MLHG serves as the Group Linear entry point. Therefore, the Linear Hunt TN for member 1 must be defined if the MLHG subscribes to Linear hunting. If the Linear Hunt TN for member 1 is not defined, no other member can have a Linear Hunt TN.
REG	Regular Hunt is an arrangement in which hunting begins with the Start Hunt Terminal Number and continues sequentially through the last terminal number in the Multi-Line Hunt Group.
UCD	Software Release: 5E3 and later. UCD (Uniform Call Distribution) is a hunting arrangement that provides uniform termination call

	assignment (distribution) to members of a Multi-Line Hunt Group. This HUNT TYPE should be used with a Multi-Line Hunt Group of Modem Pool. A Modem Pool Group is comprised of modems and terminal adaptors which allow data calls between analog and digital customers.

Data Rules:

With HUNT TYPE "HTC" or "REG", the listed Telephone Number must be associated with Terminal 1 on the MLHLN form (5111 Record).

If HUNT TYPE "PMHG" or "PRRG" is used for an MLHG, the FIRST PREEMPT MEMB must also be specified on the MLHG form, and each terminal in the MLHG must have a Precedence and Preemption Feature assigned.

For 5E5 and later, when HUNT TYPE is "PSUCD", at least one EQPSUPH form (5742 Record) must have an entry of "O" in the EQST field.

For 5E6 and later, if HUNT TYPE is "PSUCD", INWATS must be "N".

2.5 # OVERFLOW REG

Description: Will an Overflow Message Register be used?

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

Data Rules:

If the Overflow Peg Count Reg is assigned a Distribute Point Number on the MLHG form (5110 Record), this field must have an entry of "Y".

2.6 # INWATS

Description: Is this MLHG an INWATS group?

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

Data Rules:

The INWATS feature is applicable on a group basis only. When this field is "Y", all members of the MLHG must have an LCC with a TERMINATING TREATMENT of "INWATS" and a CLASS OF SERVICE of "INDIV", "HOTPBX", "PBX", "HOTMOTL", or "ATND".

2.7 # CF BUSY

Description: Can the Multi-Line Hunt Group be assigned Call Forwarding Busy Line?

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

Data Rules:

For 5E3 and later, if a Modem Pool Group is being defined, which is indicated by an entry in the MPTYPE field on the MLHG form, this field must be "N".

If a Packet Switching Group (DSL members) is being defined, which is indicated by a HUNT TYPE of "PSUCD" on this form, this field must be "N".

2.8 # CF VARIABLE

Description: Can the Multi-Line Hunt Group be assigned Call Forwarding Variable?

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

Data Rules:

For 5E5 and later, when CF VARIABLE is "Y", the first member of the MLHG must for 5E5 and 5E6 (and should for 5E7 and later) be assigned a Call Forwarding Variable feature. For 5E5 only, the FWD CONDITION for the feature must be "BOTH" or "PRCV" on the MLHGFD form. For 5E6 and later, FWD CONDITION must be "BOTH" or "DBTH".

For 5E3 and later, if a Modem Pool Group is being defined, which is indicated by an entry in the MPTYPE field on the MLHG form, this field must be "N".

If a Packet Switching Group (DSL members) is being defined, which is indicated by a HUNT TYPE of "PSUCD" on this form, this field must be "N".

2.9 # BEARER

Description: BEARER is used to indicate the type of calls that can be routed to this Multi-Line Hunt Group.

Software Release: 5E4(2) and later
Required Field.
Default: VOICE
Valid Entries:

Valid BEARER Entries

Entry	Definition
CSD	Circuit Switched Data.
PACKET	Packet data.
VOICE	Voice.

Data Rules:

If BEARER is "CSD", HUNT TYPE must be "UCD", "HTC", or "REG".

For 5E5 and later, If HUNT TYPE is "HTC", "REG", or "UCD", BEARER must be "CSD" or "VOICE".

If HUNT TYPE is "ISAT", BEARER must be "VOICE". For 5E5 and later, if HUNT TYPE is "ISAT", "MUPH", or "PMHG", BEARER must be "VOICE". If HUNT TYPE is "PSUCD", BEARER must be "PACKET".

If CSD is entered and a CKT MLHG/TERM is defined on the DSMLHLN form (5901 Record), the associated LCC form (5306 Record) must have a TERMINATING TREATMENT of "MLHG".

FEATURE DEFINITION RECORD
MLHGFD 5ESS SWITCH
12.18
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	FEATURE OPTIONS					
		HUNT TYPE	ORVE EGR F L W	IN WATS	CBFU S Y	CVFA R I A B L E	BEARER
/MH*	ISAT MLHG MAGIC FEATURE	ISAT	Y	Y	Y	Y	VOICE
/MHC	HTC HUNT	HTC	N	N	N	N	VOICE
/MHCB	HTC;CFBUSY	HTC	N	N	Y	N	VOICE
/MHCBI	HTC;CFBUSY,INWATS	HTC	N	Y	Y	N	VOICE
/MHCBIO	HTC;CFBUSY,INWATS,OVERFLOW	HTC	Y	Y	Y	N	VOICE
/MHCBIOV	HTC;CFBUSY,INWATS,OVERFLOW,CFVAR	HTC	Y	Y	Y	Y	VOICE
/MHCBIV	HTC;CFBUSY,INWATS,CFVAR	HTC	N	Y	Y	Y	VOICE
/MHCBO	HTC;CFBUSY,OVERFLOW	HTC	Y	N	Y	N	VOICE
/MHCBOV	HTC;CFBUSY,OVERFLOW,CFVAR	HTC	Y	N	Y	Y	VOICE
/MHCBV	HTC;CFBUSY,CFVAR	HTC	N	N	Y	Y	VOICE
/MHCI	HTC;INWATS	HTC	N	Y	N	N	VOICE
/MHCIO	HTC;INWATS,OVERFLOW	HTC	Y	Y	N	N	VOICE
/MHCIOV	HTC;INWATS,OVERFLOW,CFVAR	HTC	Y	Y	N	Y	VOICE
/MHCIV	HTC;INWATS,CFVAR	HTC	N	Y	N	Y	VOICE
/MHCO	HTC;OVERFLOW	HTC	Y	N	N	N	VOICE
/MHCOV	HTC;OVERFLOW,CFVAR	HTC	Y	N	N	Y	VOICE
/MHCV	HTC;CFVAR	HTC	N	N	N	Y	VOICE
/MHDC	ISDN CSD MLHG FEATURE	HTC	N	N	N	N	CSD
/MHDCO	ISDN CSD MLHG FEATURE	HTC	Y	N	N	N	CSD
/MHDR	ISDN CSD MLHG FEATURE	REG	N	N	N	N	CSD
/MHDRO	ISDN CSD MLHG FAETURE	REG	Y	N	N	N	CSD
/MHDU	ISDN CSD MLHG FEATURE	UCD	N	N	N	N	CSD
/MHDUO	ISDN CSD MLHG FEATURE	UCD	Y	N	N	N	CSD
/MHI	ISDN ATTENDANT MLHG FEATURE	ISAT	N	N	N	N	VOICE
/MHIB	ISDN ATTENDANT MLHG FEATURE	ISAT	N	N	Y	N	VOICE
/MHIBI	ISDN ATTENDANT MLHG FEATURE	ISAT	N	Y	Y	N	VOICE
/MHIBIO	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	Y	Y	N	VOICE

/MHIBIOV	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	Y	Y	Y	VOICE
/MHIBIV	ISDN ATTENDANT MLHG FEATURE	ISAT	N	Y	Y	Y	VOICE
/MHIBO	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	N	Y	N	VOICE
/MHIBOV	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	N	Y	Y	VOICE
/MHIBV	ISDN ATTENDANT MLHG FEATURE	ISAT	N	N	Y	Y	VOICE
/MHII	ISDN ATTENDANT MLHG FEATURE	ISAT	N	Y	N	N	VOICE
/MHIIOV	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	Y	N	Y	VOICE
/MHIIV	ISDN ATTENDANT MLHG FEATURE	ISAT	N	Y	N	Y	VOICE

ESS 5604(5E4)TG-5 MULTILINE HUNT GROUP DATE ___________

FEATURE DEFINITION RECORD

MLHGFD 5ESS SWITCH

12.18

BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	FEATURE OPTIONS					
		HUNT TYPE	ORVEEGRFLW	INWATS	CBFUSY	CVFARIABLE	BEARER
/MHIO	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	N	N	N	VOICE
/MHIOI	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	Y	N	N	VOICE
/MHIOV	ISDN ATTENDANT MLHG FEATURE	ISAT	Y	N	N	Y	VOICE
/MHIV	ISDN ATTENDANT MLHG FEATURE	ISAT	N	N	N	Y	VOICE
/MHM	MUPH HUNT	MUPH	N	N	N	N	VOICE
/MHMB	MUPH;CFBUSY	MUPH	N	N	Y	N	VOICE
/MHMBI	MUPH;CFBUSY,INWATS	MUPH	N	Y	Y	N	VOICE
/MHMBIO	MUPH;CFBUSY,INWATS,OVERFLOW	MUPH	Y	Y	Y	N	VOICE
/MHMBIOV	MUPH;CFBUSY,INWATS,OVFLOW,CFVAR	MUPH	Y	Y	Y	Y	VOICE

/MHMBIV	MUPH;CFBUSY,INWATS,CFVAR	MUPH	N	Y	Y	Y	VOICE
/MHMBO	MUPH;CFBUSY,OVERFLOW	MUPH	Y	N	Y	N	VOICE
/MHMBOV	MUPH;CFBUSY,OVERFLOW,CFVAR	MUPH	Y	N	Y	Y	VOICE
/MHMBV	MUPH;CFBUSY,CFVAR	MUPH	N	N	Y	Y	VOICE
/MHMI	MUPH;INWATS	MUPH	N	Y	N	N	VOICE
/MHMIO	MUPH;INWATS,OVERFLOW	MUPH	Y	Y	N	N	VOICE
/MHMIOV	MUPH;INWATS,OVERFLOW,CFVAR	MUPH	Y	Y	N	Y	VOICE
/MHMIV	MUPH;INWATS,CFVAR	MUPH	N	Y	N	Y	VOICE
/MHMO	MUPH;OVERFLOW	MUPH	Y	N	N	N	VOICE
/MHMOV	MUPH;OVERFLOW,CFVAR	MUPH	Y	N	N	Y	VOICE
/MHMV	MUPH;CFVAR	MUPH	N	N	N	Y	VOICE
/MHPS	PACKET SWITCHING MLHG FEATURE	PSUCD	N	N	N	N	PACKET
/MHR	REG HUNT	REG	N	N	N	N	VOICE
/MHRB	REG;CFBUSY	REG	N	N	Y	N	VOICE
/MHRBI	REG;CFBUSY,INWATS	REG	N	Y	Y	N	VOICE
/MHRBIO	REG;CFBUSY,INWATS,OVERFLOW	REG	Y	Y	Y	N	VOICE
/MHRBIOV	REG;CFBUSY,INWATS,OVERFLOW,CFVAR	REG	Y	Y	Y	Y	VOICE
/MHRBIV	REG;CFBUSY,INWATS,CFVAR	REG	N	Y	Y	Y	VOICE
/MHRBO	REG;CFBUSY,OVERFLOW	REG	Y	N	Y	N	VOICE
/MHRBOV	REG;CFBUSY,OVERFLOW,CFVAR	REG	Y	N	Y	Y	VOICE
/MHRBV	REG;CFBUSY,CFVAR	REG	N	N	Y	Y	VOICE
/MHRI	REG;INWATS	REG	N	Y	N	N	VOICE
/MHRIO	REG;INWATS,OVERFLOW	REG	Y	Y	N	N	VOICE
/MHRIOV	REG;INWATS,OVERFLOW,CFVAR	REG	Y	Y	N	Y	VOICE
/MHRIV	REG;INWATS,CFVAR	REG	N	Y	N	Y	VOICE
/MHRO	REG;OVERFLOW	REG	Y	N	N	N	VOICE

ESS 5604(5E4)TG-5 MULTILINE HUNT GROUP DATE ___________

FEATURE DEFINITION RECORD
5ESS SWITCH

MLHGFD
12.18
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	FEATURE OPTIONS				
		HUNT TYPE	ORVE EG R F	IN WATS	CBFU S Y	C V FARIABLE

			L W			
/MHROV	REG;OVERFLOW,CFVAR	REG	Y	N	N	Y
/MHRV	REG;CFVAR	REG	N	N	N	Y
/MHU	UCD HUNT	UCD	N	N	N	N
/MHUB	UCD;CFBUSY	UCD	N	N	Y	N
/MHUBI	UCD;CFBUSY,INWATS	UCD	N	Y	Y	N
/MHUBIO	UCD;CFBUSY,INWATS,OVERFLOW	UCD	Y	Y	Y	N
/MHUBIOV	UCD;CFBUSY,INWATS,OVERFLOW,CFVAR	UCD	Y	Y	Y	Y
/MHUBIV	UCD;CFBUSY,INWATS,CFVAR	UCD	N	Y	Y	Y
/MHUBO	UCD;CFBUSY,OVERFLOW	UCD	Y	N	Y	N
/MHUBOV	UCD;CFBUSY,OVERFLOW,CFVAR	UCD	Y	N	Y	Y
/MHUBV	UCD;CFBUSY,CFVAR	UCD	N	N	Y	Y
/MHUI	UCD;INWATS	UCD	N	Y	N	N
/MHUIO	UCD;INWATS,OVERFLOW	UCD	Y	Y	N	N
/MHUIOV	UCD;INWATS,OVERFLOW,CFVAR	UCD	Y	Y	N	Y
/MHUIV	UCD;INWATS,CFVAR	UCD	N	Y	N	Y
/MHUO	UCD;OVERFLOW	UCD	Y	N	N	N
/MHUOV	UCD;OVERFLOW,CFVAR	UCD	Y	N	N	Y
/MHUV	UCD;CFVAR	UCD	N	N	N	Y
/MHXPS	OSPS XDB PKT SWITCHING MLHG	PSUCD	N	N	N	N

Figure 1 PRECONSTRUCTED MLHG FEATURES 5E4(2) AND LATER SOFTWARE RELEASES

```
mlhgfd                     5ESS OFFICE DATA ADMINISTRATION  _
(5604)               MULTILINE HUNT GROUP FEATURE DEFINITION FORM



 *2. FEATURE NAME CIRCUIT1      3. REMARKS  ISAT GROUP

     FEATURE OPTIONS:
 #4. HUNT TYPE     ISAT
 #5. OVERFLOW REG  N
 #6. INWATS        N
 #7. CF BUSY       N
 #8. CF VARIABLE   N
 #9. BEARER        VOICE
```

Figure 2 SAMPLE MLHGFD FORM 5E4(2) AND LATER SOFTWARE RELEASES

SEC. 6: CALL PICKUP ORIGINATING/TERMINATING FORMS

SEC. 6A: 5605-1a/b RECORD
CALL PICKUP ORIGINATING FEATURE DEFINITION FORM - PUOFD

1. GENERAL

The 5605-1a/b Record is available with 5E2 and later Software Releases. It is used to define a number of separate but related features by selecting various feature options for CPUO (Call Pickup Originating). The provided features are CPUO, DCP (Directed Call Pickup) Originating, DCP Originating with Barge In, Loud Speaker Paging, and Code Calling.

Each feature is given a feature name of from one to eight characters which is used to assign the constructed (defined) feature to lines.

1.1 Predefined Call Pickup Originating Features

Certain CPUO features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed CPUO features is contained in Figure 1. A list of the preconstructed CPUT (Call Pickup Terminating) features is contained in Division 4, Section 6B, Figures 1, 2, and 3.

1.2 Terminal Assignments

A terminal (line or trunk) must be assigned a CPUO feature on the appropriate feature assignment form, LINEFA, MLHLNFA, BFG, TKGRPFA or TRUNKFA.

1.3 Line Assignments

For 5E4(2) and later Software Releases, each terminal (line) which is assigned the PUO (Pickup Originating) feature on the appropriate LINEFA, MLHLNFA, BFG or CLUSTR form with the feature also defined on the PUOFD form with the INITIATE field equal to "BSYVFY" or "EMEROVR" must have a CKT MLHG/TERM or CKT TN defined on the DSMLHLN or DSL forms with an associated CLASS OF SERVICE on the LCC form of "ISATND".

1.4 Recent Change View

The corresponding Recent Change View for this form is 12.13.

2. FORM ENTRIES - 5605-1a RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *FEATURE NAME

Description: Enter the Feature Name. Feature Names may be from one to eight characters long, with no restrictions on the valid characters, except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

Fields Section 2.4 - Section 2.9 define the feature options.

2.4 ACT TYPE

Description: Enter the method of feature Activation.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
CODE	Activation by dialing a code.
AUTO	No customer activation. The feature is considered active as soon as the switch owner assigns it to a line. The feature will remain active until the switch owner deactivates it.

Data Rules:

If ACT TYPE is "CODE", DACT TYPE must be "CODE"; if ACT TYPE is "AUTO", then DACT TYPE must be "NONE".

If ACT TYPE is "CODE", and this feature is assigned to a line, then the line should normally be assigned an IDP, and at least one dialed code of the IDP on the IDPDCA Form (5601-1/2 Record) should have ACTION equal to "FTACT", and a FEATURE associated with the dialed code on the IDPDCA Form equal to this CPUO feature.

Alternately, if the line is not assigned an IDP, then the PDIT (Primary Digit Interpreter Table) used by the line should contain at least one dialed code with ACTION equal to "FTACT", and a FEATURE associated with the dialed code on the PDIT Form equal to this CPUO feature.

For 5E6 and later, a Call Pickup Originating feature with activation and deactivation type "CODE" cannot be assigned on a BFG form (5625 Record).

For 5E7 and later, when Telephone Numbers on the LINEFA form or Multiline Hunt Terminal Numbers on the MLHLNFA form are assigned a Call Pickup Originating Feature with the Activation Type entry set to "AUTO" on the PUOFD form, the corresponding Initial Activation Status entry on the LINEFA or MLHLNFA form, an associated CLUSTR form or on a BFG form must be equal to "Y".

2.5 DACT TYPE

Description: Enter the method of feature Deactivation.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
CODE	Deactivation by dialing a code.
NONE	No customer deactivation is allowed.

Data Rules:

If DACT TYPE is "CODE", then ACT TYPE must be "CODE".

If DACT TYPE is "NONE", then ACT TYPE must be "AUTO".

If DACT TYPE is "CODE", and this feature is assigned to a line, then the line should normally be assigned an IDP, and at least one dialed code of the IDP on the IDPDCA Form (5601-1/2 Record) should have ACTION equal to "FTDACT", and a feature associated with the dialed code on the IDPDCA Form equal to this CPUO feature.

2.6 INITIATE

Description: Indicate which option of the PUO feature is being selected, and in which manner it will actually be used.
Default: IPRDQ
Valid Entries:

Valid INITIATE Entries

Entry	Definition
ANSBACK	Software Release: 5E9(1) and later. For Answer Back of a parked call. For more information on Call Park, see Division 2, Section 4A124, or for National ISDN Call Park (5E12 and later), see Division 2, Section 4A258.
BPARK	Software Release: 5E9(1) and later. For Basic Call Park. For more information on Call Park, see Division 2, Section 4A124.
BSYVFY	Software Release: 5E4(2) and later. For Busy Verify.
CDCAL	For Code Calling.
DPARK	Software Release: 5E9(1) and later. For Directed Call Park. For more information on Call Park, see Division 2, Section 4A124, or for National ISDN Call Park (5E12 and later), see Division 2, Section 4A258.
EMEROVR	Software Release: 5E4(2) and later. For Emergency Override.
IDPUDL	Initiation by Directed Call Pickup.
IPRDQ	Initiation by Predesignated Pickup group.
IPREDN	Initiation by Predesignated Directory Number (Telephone Number).
LDSPKPG	For Loud Speaker Paging.
RTRV	Software Release: 5E9(1) and later. For Retrieving a parked call. For more information on Call Park see Division 2, Section 4A124.

✏ ***NOTE:*** "IPRDQ" is the default value, and the only value allowed except for CPUO features derived from the preconstructed features using the ODA change-insert mode of the review operation.For 5E9(1) and later, if INITIATE equals "ANSBACK", "BPARK", "DPARK", or "RTRV", then the following must be true:

- BARGE IN must be "N".
- NUMBER OF PICKUP GROUPS must be 0.
- CHANGE PICKUP TN ALLOWED must be "N".

Only one each of the INITIATE values "ANSBACK", "BPARK", "DPARK", and "RTRV" is allowed to be assigned to a given port (i.e., assigned to a given LINEFA/MLHLNFA form, BFG form or an associated

CLUSTR form(s)).

If a Call Pickup Originating feature with INITIATE set to any of the values "ANSBACK", "BPARK", "DPARK" or "RTRV" is assigned to the line or BFG, then a Home Intercom feature cannot be assigned to the line or BFG.

A Pickup Originating feature with INITIATE set to "BPARK" or"RTRV" cannot be assigned to MLHG MUPH members.

Data Rules:

BPARK: BPARK is not allowed for STD digital subscriber lines (i.e., National ISDN lines).

BSYVFY: For 5E4(2) and later, if INITIATE equals "BSYVFY", then

- BARGE IN must be "Y",
- NUMBER OF PICKUP GROUPS must be 0,
- CHANGE PICKUP TN ALLOWED must be "N", and
- TONE TYPE field on TNTYP form (5504 Record) must be "HIGHTONE".

CDCAL, LDSPKPG: These options are mutually exclusive. However, multiple features can be assigned to one line. If this feature is assigned to a line, then the line should normally be assigned an IDP, and at least one dialed code of the IDP on the IDPDCA Form (5601-1/2 Record) should have ACTION of

- "CCL" if INITIATE is "CDCAL",
- "LSP" if INITIATE is "LDSPKPG",
- "DPU" if INITIATE is "IPREDN" or "IDPUDL", and BARGE IN is "Y",
- "DPN" if INITIATE is "IPREDN" or "IDPUDL", and BARGE IN is "N",

and a FEATURE associated with the dialed code on the IDPDCA Form is equal to this CPUO feature.

Code Calling and Loud Speaker Paging allow customer premises equipment to be accessed by attendants and TG (Trunk Group) station users as well as non-TG station users by dialing an Access Code.

If INITIATE is "CDCAL" or "LDSPKPG", then NUMBER OF PICKUP GROUPS must be 0, BARGE IN must be "N", and CHANGE PICKUP TN ALLOWED must be "N".

For 5E4(2) and later, if INITIATE is "CDCAL" or "LDSPKPG", then TGN and MEMB must be entered as default parameters on this form, and/or on the associated PULPA (5605-3 Record) or PUMPA form (5605-4 Record), and the corresponding TKGRP form must have a TRKCLS of "PFCPE".

EMEROVR: Emergency override allows the attendant to complete incoming calls to TNs with terminating restrictions, call forwarding activated, busy from the make busy key, or part of a series completion or MLHG. It cannot preempt a call, but can override call forwarding, stations with series completion, multi-line hunting, group make busy, Terminal Group & Station Restriction or Attendant-Controlled Voice Terminals. The line need not be a DSL to be overridden. The attendant can activate Emergency Override with a feature button or a dialed access code.

If INITIATE equals "EMEROVR", then BARGE IN must be "Y", NUMBER OF PICKUP GROUPS must be 0, and CHANGE PICKUP TN ALLOWED must be "N".

For 5E5 and later, if /CPUEO, or any feature with INITIATE equal to "EMEROVR" is assigned on a LINEFA or MLHLNFA form, or assigned BFG or CLUSTER form, the corresponding LINE, MLHG, MLHLN, DSLUSR, or SHTN form must have an entry in the ATT MLHG field.

IDPUDL: DCP without Barge In allows the customer to attempt a call pickup on either predesignated or not predesignated TN. DCP with Barge In works the same as DCP without Barge In unless the ringing station is answered before DCP with Barge In is initiated. If the line on which the Barge In is being attempted, is in the talking state, Barge In will be performed.

If INITIATE equals "IDPUDL", then NUMBER OF PICKUP GROUPS must be 0 and CHANGE PICKUP TN ALLOWED must be "N".

IPRDQ: Call Pickup is used to allow a customer to pickup any ringing station set in a specified pickup group. A customer can pickup from up to four pickup groups per constructed feature. Calls in the pickup group are arranged by longest ringing period. The call which has been ringing the longest will be removed from the pickup group first.

If INITIATE equals "IPRDQ", then BARGE IN must be "N", CHANGE PICKUP TN ALLOWED must be "N", and NUMBER OF PICKUP GROUPS must be 1 to 4.

For 5E3 and later, If INITIATE equals "IPRDQ", then only one PUOFD FEATURE NAME may exist per TN on a LINEFA or its associated BFG or CLUSTR form(s), or per MLHG/TERM on a given MLHLNFA or its associated BFG or CLUSTR form(s).

IPREDN: If INITIATE equals "IPREDN", then NUMBER OF PICKUP GROUPS must be 0.

RTRV: RTRV is not allowed for STD digital subscriber lines (i.e., National ISDN lines).

2.7 BARGE IN?

Description: Is Barge In into an existing call allowed?

Barge In is used with Directed Call Pickup.
Default: N
Valid Entries: Y, N

NOTE: For 5E2 and later, "N" is the default value and the only value allowed except for CPUO features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Data Rules:

With 5E4(2) and later, if BARGE IN is "Y", then INITIATE must be "IDPUDL", "IPREDN", "EMEROVR", or "BSYVFY".

2.8 CHANGE PICKUP TN ALLOWED?

Description: Is change DCP number allowed?
Default: N
Valid Entries: Y, N

The note in Section 2.7 also applies here.

Data Rules:

If CHANGE PICKUP TN ALLOWED is set to "Y", then INITIATE must be "IPREDN".

2.9 NUMBER OF PICKUP GROUPS

Description: Enter the number of pickup queues (groups) a customer is able to pick up from.

Up to four groups may be specified. This applies to call pickup only. A different dialed code is associated with each of the groups, although there is only one assigned feature.

Required Field.
Valid Entries: 0 - 4

Data Rules:

If INITIATE is "IPRDQ", then NUMBER OF PICKUP GROUPS must be 1 to 4.

If NUMBER OF PICKUP GROUPS is 1 to 4, and this feature is assigned to a line, then the line should normally be assigned an IDP. At least one dialed code of the IDP on the IDPDCA Form should then have ACTION of

- "CPQ1" if NUMBER OF PICKUP GROUPS is 1 to 4,
- "CPQ2" if NUMBER OF PICKUP GROUPS is 2 to 4,
- "CPQ3" if NUMBER OF PICKUP GROUPS is 3 or 4,
- "CPQ4" if NUMBER OF PICKUP GROUPS is 4,

and a FEATURE associated with the dialed code on the IDPDCA Form (5601-1/2 Record) must be that of the CPUO "wild-card" feature (/PO*) or equal to this CPUO feature.

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION of

- "CPQ1" if NUMBER OF PICKUP GROUPS is 1 to 4,
- "CPQ2" if NUMBER OF PICKUP GROUPS is 2 to 4,
- "CPQ3" if NUMBER OF PICKUP GROUPS IS 3 or 4,
- "CPQ4" if NUMBER OF PICKUP GROUPS is 4,

and a FEATURE associated with the dialed code on the PDIT Form (5300-2 Record) must be that of the CPUO "wild-card" feature (/PO*) or to this CPUO feature.

CALL SELECTION

At least one of the following options (Section 2.10 - Section 2.14) must be set to "Y". Call selection indicates the type of calls the party can pickup by means of Call Pickup, DCP, DCP with Barge In, or with 5E4 and later Software Releases, Busy Verify. For call pickup, this would indicate the type of calls that this party can remove from the pickup group. There will be no queues for Directed Pickup and Directed Pickup with Barge In, but through CALL SELECTION, the type of call will be entered. For Code Calling and Loud Speaker Paging, CALL SELECTION determines the party attempting to initiate a code call is eligible to do so.

2.10 ATTENDANT?

Description: Are attendant calls allowed?
Default: Y
Valid Entries: Y, N

☞ ***NOTE:*** For 5E2 and later, "Y" is the default value and the only value allowed except for CPUT features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.11 INTRA TERMINAL GROUP?

Description: Are Intraterminal Group calls allowed?
Default: Y
Valid Entries: Y, N

The note in Section 2.10 also applies here.

2.12 INTRAOFFICE?

Description: Are Intraoffice calls allowed?
Default: Y
Valid Entries: Y, N

The note in Section 2.10 also applies here.

2.13 INTER OFFICE?

Description: Are Interoffice calls allowed?
Default: Y
Valid Entries: Y, N

The note in Section 2.10 also applies here.

2.14 PRIVATE FACILITY ACCESS?

Description: Are Private Facilities Access calls allowed?
Default: Y
Valid Entries: Y, N

The note in Section 2.10 also applies here.

3. FORM ENTRIES - 5605-1b RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 *FEATURE NAME

Description: Enter the Feature Name. Refer to Section 2.2 . Feature Names maybe from one to eight characters long, with no restrictions on the valid characters except that the first character may not be a slash (/). Feature Names starting with a slash are reserved for preconstructed features.

DEFAULT PARAMETERS

The following fields (Section 3.3 - Section 3.10) define the default parameters assigned with the feature to lines. These parameters will be assigned to the line unless they are overridden by entries on the PULPA (5605-3 Record) or PUMPA (5605-4 Record) Forms.

3.3 DIRECT PICKUP TN

Description: The name of this field was changed to DPU TN in 5E12. This field name applies to 5E11 and earlier. See DPU TN for usage information.

3.4 DPU TN

Description: Enter the Telephone Number served by this office. This field was called DIRECT PICKUP TN for 5E11 and earlier.

Software Release: 5E12 and later
Valid Entries: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If DPU TN is entered, then INITIATE must be "IPREDN".

NXX(s) (the first 3 digits of a 7-digit TN) and/or NPA/NXX combinations (the first 6 digits of a 10-digit TN) from the DPU TN on the PUOFD form must be defined as OFFICE CODE and/or NPA/OFFICE CODE on the NOC form.

If the first 3 digits of the 7-digit DPU TNs on the PUOFD 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 DPU TN(s) must be entered as a 10-digit DPU TN(s).

3.5 ORIG PICKUP GROUP 1

Description: Enter the queue (group) that the customer can originate to pickup.
Valid Entries: 2 - 65534

Data Rules:

If this field has an entry, the NUMBER OF PICKUP GROUPS must be 1, 2, 3, or 4.

3.6 ORIG PICKUP GROUP 2

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

If this field has an entry, the NUMBER OF PICKUP GROUPS must be 2, 3, or 4.

3.7 ORIG PICKUP GROUP 3

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

If this field has an entry, the NUMBER OF PICKUP GROUPS must be 3 or 4.

3.8 ORIG PICKUP GROUP 4

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

If this field has an entry, the NUMBER OF PICKUP GROUPS must be 4.

3.9 TGN

Description: Enter the Trunk Group Number for Code Calling or Loud Speaker Paging.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

If this field has an entry, then MEMB must be specified.

If TGN and MEMB have an entry, then INITIATE must be "CDCAL" or "LDSPKPG", and SLVLDSPN on the TRUNK Form (5204 Record) must be specified.

3.10 MEMB

Description: Enter the Trunk Group Member Number for Code Calling or Loud Speaker Paging.
Valid Entries:

For 5E3 and later: 0 - 1951

ESS 5605-1(2001) CALL PICKUP ORIGINATING FEATURE DEFINITION RECORD DATE ___________
puofd 5ESS SWITCH
12.13
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

F E A T U	R E M A R	A C T	D A C	I N I T I	B A R	C H G	P I C	CALL SELECT					DEF PARM						
								A T	I N	I N	I N	P F	D I P R I	P I	P I	P I	P I	T G	M E

R E N A M E	K S	T Y P E	T T Y P E	A T E		G E I N	P U T N	K U P G R O U P S	T N D N T	T R A T G	T R A O F	T E R O F	E C A C K T U P T N	P C I K C U K P U P O R G I R G O U P 1	P C I K C U K P U P O R G I R G O U P 2	P C I K C U K P U P O R G I R G O U P 3	P C I K C U K P U P O R G I R G O U P 4	N	M B
/CPANSBK	CALL PARK ANSWER BACK	AUTO	NONE	ANSBACK	N	N	0	Y	Y	Y	Y	Y							
/CPBPARK	BASIC CALL PARK	AUTO	NONE	BPARK	N	N	0	Y	Y	Y	Y	Y							
/CPCCL	CODE CALLING ANSWER	AUTO	NONE	CDCAL	N	N	0	Y	Y	Y	Y	Y							
/CPDNO	NO BARGE-IN DIRECTED PICKUP ORIG	AUTO	NONE	IDPUDL	N	N	0	Y	Y	Y	Y	Y							
/CPDPARK	DIRECTED CALL PARK	AUTO	NONE	DPARK	N	N	0	Y	Y	Y	Y	Y							
/CPLS	LOUD SPEAKER PAGING	AU	NO	LDSPK		N	0		Y		Y	Y							

P	ANSWER	TO	NE	PG	N			Y		Y									
/CPRTRV	CALL PARK RETRIEVE	AUTO	NONE	RTRV	N	N	0	Y	Y	Y	Y	Y							
/CPUDO	DORECTED PICKUP ORIGINATING	AUTO	NONE	IDPUDL	Y	N	0	Y	Y	Y	Y	Y							
/CPUEO	EMERGENCY OVERRIDE	AUTO	NONE	EMEROVR	Y	N	0	Y	Y	Y	Y	Y							
/CPUO	CALL PICKUP ORIGINATING	AUTO	NONE	IPRDQ	N	N	1	Y	Y	Y	Y	Y							
/CPUO2	CALL PICKUP ORIG 2 GROUPS	AUTO	NONE	IPRDQ	N	N	2	Y	Y	Y	Y	Y							
/CPUVO	BUSY VERIFY	AUTO	NONE	BSYVFY	Y	N	0	Y	Y	Y	Y	Y							
/PO*	WILD—CARD PICKUP ORIG FEATURE	AUTO	NONE	IPRDQ	N	N	1	Y	Y	Y	Y	Y							

Figure 1 PRECONSTRUCTED CALL PICKUP ORIGINATING FEATURES - 5E9(1) AND LATER SOFTWARE RELEASES

```
puofd                           5ESS Switch            _
(5605-1a/b)              OFFICE DATA ADMINISTRATION
                 CALL PICKUP ORIGINATING FEATURE DEFINITION

* 2. FEATURE NAME    PICK          3. REMARKS ________________________________

  FEATURE OPTIONS:                             DEFAULT PARAMETERS:
  4. ACT TYPE                   CODE          15. DIRECT PICKUP TN       _______
  5. DACT TYPE                  CODE          16. ORIG PICKUP GROUP 1    00012
  6. INITIATE                   IPRDQ         17. ORIG PICKUP GROUP 2    00015
  7. BARGE IN?                  N             18. ORIG PICKUP GROUP 3    00020
  8. CHANGE PICKUP TN ALLOWED?  N             19. ORIG PICKUP GROUP 4    00023
  9. NUMBER OF PICKUP GROUPS    4             20. TGN                    ____
                                              21. MEMB                   ____
  CALL SELECTION:
 10. ATTENDANT?                 Y
 11. INTRA TERMINAL GROUP?      Y
 12. INTRA OFFICE?              Y
 13. INTER OFFICE?              Y
 14. PRIVATE FACILITY ACCESS?   Y
```

Figure 2 SAMPLE PUOFD FORM 5E11 AND EARLIER SOFTWARE RELEASE

```
puofd                            5ESS Switch
SCREEN 1 OF 2            OFFICE DATA ADMINISTRATION
(5605-1a/b)        CALL PICKUP ORIGINATING FEATURE DEFINITION

*1. FEATURE NAME ________
 3. REMARKS      ________________________________

           FEATURE OPTIONS
#4. ACT TYPE                AUTO
```

```
#5. DACT TYPE                 NONE
    INITIATE                  IPRDQ
    BARGE IN?                 N
    CHANGE PICKUP TN ALLOWED? N
#9. NUMBER OF PICKUP GROUPS   _
```

```
puofd                             5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5605-1a/b)       CALL PICKUP ORIGINATING FEATURE DEFINITION

          CALL SELECTION          19. TGN  ____
    ATTENDANT?               Y    20. MEMB ____
    INTRA TERMINAL GROUP?    Y
    INTRA OFFICE?            Y          DIRECTED PICKUP
    INTER OFFICE?            Y    21. DPU TN      __________
    PRIVATE FACILITY ACCESS? Y

      DEFAULT PARAMETERS
15. ORIG PICKUP GROUP 1 _____
16. ORIG PICKUP GROUP 2 _____
17. ORIG PICKUP GROUP 3 _____
18. ORIG PICKUP GROUP 4 _____
```

Figure 3 SAMPLE PUOFD FORM   5E12 AND LATER SOFTWARE RELEASES

SEC. 6B: 5605-2a/b RECORD
CALL PICK-UP TERMINATING FEATURE DEFINITION RECORD - PUTFD

1. GENERAL

The 5605-2a/b Record is available with 5E2 and later Software Releases. It is used to define a number of separate but related features by selecting various feature options for Call Pick-Up Termination. The Call Pick-Up Terminating feature determines what one allows to be done to his telephone by others who have the originating feature.

Each feature is given a feature name of from one to eight characters which is used to assign the constructed (defined) feature to lines. Certain Call Pick-Up Termination features are pre-defined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed Call Pick-Up Terminating features is contained in Figures 1, 2, and 3. A list of the preconstructed Call Pick-Up Originating features is contained in Division 4, Section 6A, Figures 1 and 2.

The 5605-2a/b Record is not used as a record for output. It is provided to give the customer more space to enter valid entries used for ODA input.

A terminal (line or trunk) must be assigned a Call Pick-Up Terminating feature on the appropriate feature assignment form: LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), TKGRPFA (5206 Record), or TRUNKFA (5205 Record).

1.1 Directed Pick-Up Nonbarge-In Feature

The DPN (Directed Pick-Up Nonbarge-In feature) has been changed for 5E5 and later Software Releases. For 5E4(2) and earlier Software Releases, it is necessary to assign the terminating DPN feature (/CPDNT) to a line so other terminal group members with the originating DPN feature (/CPDNO) can pick up that particular line.

NOTE: For 5E7 and later, /CPDNT is no longer available as a preconstructed feature.

For 5E5 and later Software Releases, all terminal group members that are assigned the /CPDNO feature will be allowed to pick up another group member's calls without the need of a terminating feature being assigned to the called users. However, group members who do not wish to have their lines picked up by other group members can block these terminal group members by using a new feature (/CPBDNT). Therefore, instead of using a feature to allow call pick-up (/CPDNT), terminal group members can use a feature (/CPBDNT) to deny call pick-up to particular group members since all members of the same group can be picked up by default.

During a retrofit from 5E4(2) to 5E5, /CPDNT features are removed from all LINEFA, MLHLNFA, BFG, and CLUSTR input forms if the terminal group to which it belonged had a Call Pick-Up Originating feature and the /CPDNT terminating feature; lines that were not assigned the /CPDNT feature now are assigned the /CPBDNT feature. These changes do not alter the functionality of the DPN feature; i.e., the 5E4(2) and earlier version and the 5E5 version perform the same function.

1.2 Recent Change View

The corresponding Recent Change View for this form is 12.14.

2. FORM ENTRIES - 5605-2a/b RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: Enter the feature name. Feature names have no restrictions on the valid characters, except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment if desired.
Valid Entries: up to 32 characters

FEATURE OPTIONS

Fields Section 2.4 -Section 2.9 refer to feature options.

2.4 ACT TYPE

Description: Enter the method of feature activation.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
CODE	Dialing a code activates this feature.
AUTO	No customer activation. The feature is considered active as soon as the switch owner assigns it to a line. The feature remains active until the switch owner deactivates it.

Data Rules:

If ACT TYPE is "CODE", then DEACT TYPE must be "CODE". If ACT TYPE is "AUTO", then DEACT TYPE must be "NONE".

For 5E6 and later, a Call Pickup Terminating feature with activation and deactivation type "CODE" cannot be assigned on a BFG form (5625 Record).

For 5E6 and earlier, if ACT TYPE is "AUTO", the corresponding Initial Activation Status entry on the MLHLNFA, BFG, or associated CLUSTR form (5600 Record) must be "Y".

For 5E7 and later, if ACT TYPE is "AUTO", it is recommended that the corresponding Initial Activation Status entry on the MLHLNFA, BFG, or associated CLUSTR form be "Y".

For 5E7 and later, when Telephone Numbers on the LINEFA form are assigned a Call Pickup Terminating feature and ACT TYPE is "AUTO" on the PUTFD form, the corresponding Initial Activation Status on the LINEFA, BFG, or associated CLUSTR form must be "Y".

If ACT TYPE is "CODE", and this feature is assigned to a line, then the line should normally be assigned an Individualized Dialing Plan, and at least one dialed code of the IDP (on the IDPDCA form (5601-1/2 Record)) must have ACTION equal to "FTACT", and a FEATURE associated with the dialed code on the IDPDCA form equal to this Call Pick-Up Terminating feature. Alternately, if the line is not assigned an IDP, then the PDIT used by the line must contain at least one dialed code with ACTION equal to "FTACT", and a FEATURE associated with the dialed code on the PDIT form (5300-2 Record) equal to this Call Pick-Up Terminating feature.

For 5E6 and later, if ACT TYPE is "CODE" and the feature is assigned to an MLHG/TERM on the MLHLNFA form (5113 Record), the Multi-Line Hunt Group terminal must have access to an IDP (Individualized Dialing Plan) or ODP (Office Dialing Plan) where the action code associated with the feature is "FTACT". An IDP is defined on the IDPDCA form (5601-1/2 Record); an ODP is defined on the PDIT form (5300-2 Record). If the MLHG/TERM is Secondary Only, the dialing plans associated with the Primary terminal are considered for the check.

2.5 DACT TYPE

Description: Enter the method of feature deactivation.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
CODE	Dialing a code deactivates this feature.
NONE	No customer deactivation is allowed.

Data Rules:

If DACT TYPE is "CODE", then ACT TYPE must be "CODE".

If DACT TYPE is "NONE", then ACT TYPE must be "AUTO".

If DACT TYPE is "CODE", and this feature is assigned to a line, then the line should normally be assigned an Individualized Dialing Plan, and at least one dialed code of the IDP (on the IDPDCA form (5601-1/2 Record)) should have ACTION equal to "FTDACT", and a FEATURE associated with the dialed code on the IDPDCA form equal to this Call Pick-Up Terminating feature.

For 5E6 and later, if DACT TYPE is "CODE" and the feature is assigned to an MLHG/TERM on the MLHLNFA form (5113 Record), the Multi-Line Hunt Group terminal must have access to an IDP (Individualized Dialing Plan) or ODP (Office Dialing Plan) where the action code associated with the feature is "FTDCT". An IDP is defined on the IDPDCA form (5601-1/2 Record); an ODP is defined on the PDIT form (5300-2 Record). If the MLHG/TERM is Secondary Only, the dialing plans associated with the Primary terminal are considered for the check.

2.6 FEATURE FUNCTION

Description: Select the pickup terminating option. Selection of an option indicates that the customer will permit others to perform this function on this line.

Required Field for 5E4(2) and later.
Default: CALPU
Valid Entries:

Valid FEATURE FUNCTION Entries

Entry	Definition

CALPU	For Call Pick-Up, a ringing station can only go into one terminating pickup group. The terminating pickup group number is assigned at the time the feature is assigned.
DIRPU	Directed pickup is used to determine whether a particular line will be able to have the directed pickup function performed on it. (This option indicates that the customer who has this line would like for other eligible parties to be able to pick this phone up when it is ringing.)
DIRPUBRG	Directed pickup with barge-in is similar to directed pickup with the exception that barge-in is performed along with the directed pickup. (This option would be selected for those who wish to allow direct pickup with barge-in to be performed on their line.)
HDIRPUBRG	Software Release: 5E4(2) and later. Directed pickup with barge-in on held calls is similar to directed pickup with barge-in with the addition that barge-in may be performed on a call that has been placed on hold.
TBSYVFY	Software Release: 5E4(2) and later. This option allows an ISDN Attendant to perform busy verification on lines to determine if a particular line is actually in use or possibly out of service.
TEMEROVR	Software Release: 5E4(2) and later. This option allows an ISDN Attendant to complete incoming calls on an emergency override basis to directory numbers that cannot receive calls directly due to one or more of the following features being invoked on the line: —Call forwarding —Series completion —Multi-Line Hunting —Make busy keys —TGSR (Terminal Group Station Restriction) —ACVT (Attendant Control of Voice Terminal). The line to be overridden can be digital or analog. This feature does not provide preemption of a call, it merely allows for completion of calls to lines with the features described below.

☞ ***NOTE:*** For 5E2 and 5E3, "CALPU" is the default value and the only value allowed except for Call Pick-Up Terminating features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Data Rules:

No more than one Call Pick-Up Terminating feature with FEATURE FUNCTION equal to "CALPU", "DIRPU", "DIRPUBRG", "HDIRPUBRG", "TBSYVFY", and "TEMEROVR" may be assigned to a directory number via feature assignment forms.

If FEATURE FUNCTION is "CALPU", then BARGE IN TONE INDICATOR must be "NONE", ORIG/TERM CALL must be "NONE".

If FEATURE FUNCTION is "DIRPU", then BARGE IN TONE INDICATOR must be "NONE", ORIG/TERM CALL must be "NONE", and MULTIWAY FEATURE must be blank; for 5E7 and later, ATTENDANT?, INTRA OFFICE?, INTRA TERMINAL GROUP?, INTER OFFICE?, and PRIVATE FACILITY ACCESS? cannot all be "Y".

If FEATURE FUNCTION is "DIRPUBRG", then BARGE IN TONE INDICATOR must be "BEEP1" or "NONE" (with 5E9(1) and later), ORIG/TERM CALL must be "ORGCAL", "TERMCAL", or "ACALNFLT", and MULTIWAY FEATURE must be specified.

For 5E5 and later, if FEATURE FUNCTION is "DIRPUBRG", then BARGE IN TONE INDICATOR must be "BEEP1" or "NONE", ORIG/TERM CALL must be "ORGCAL", "TERMCAL", or "ACALNFLT", and MULTIWAY FEATURE must be specified.

For 5E4(2) and later, if Feature Function is "TBSYVFY", then ORIG/TERM CALL must be "ACALNFLT", BARGE IN TONE indicator must be "BEEP1", and MULTIWAY FEATURE must be known.

If /CPUVT, /CPUIVT, or any feature with FEATURE FUNCTION equal to "TBSYVFY" is assigned on a LINEFA or MLHLNFA form, or assigned BFG or CLUSTER form, the corresponding LINE, MLHLN, DSLUSR, or SHTN form must for 5E7 and earlier have an entry in the ATT MLHG field. For 5E8 and later, the form must have an entry in either the ATT MLHG or the RBV TGN field, unless MLHG TERM is 1. If the feature is assigned to member 1 of an MLHG, then if the HUNT TYPE on the associated MLHGFD form is "HTC", "REG", or "PMHG", ATT MLHG or RBV TGN must be entered on the MLHG form; if HUNT TYPE is "UCD", ATT MLHG or RBV TGN must be entered on the MLHG, DSLUSR, MLHLN, or SHTN form.

For 5E4(2) and later, if Feature Function is "TEMEROVR", then ORIG/TERM CALL must be "ACALNFLT", and BARGE IN TONE indicator must be "BEEP1".

For 5E5 - 5E7, if /CPUEOT, /CPUIEOT, or any feature with FEATURE FUNCTION equal to "TEMEROVR" is assigned on a LINEFA or MLHLNFA form, or assigned BFG or CLUSTER form, the corresponding LINE, MLHLN, DSLUSR, or SHTN form must have an entry in the ATT MLHG field.

For 5E9(2) and later, when the MLHG/TERM(s) on the MLHLN form or CKT MLHG/CKT TERM(s) on the DSLUSR form or MLHG/TERM NBR(s) on the SHTN form where TERM is not equal to 1 are assigned a Call Pickup Terminating Feature on the MLHLNFA, BFG or associated CLUSTR form, the Call Pickup Terminating Feature must be defined on a PUTFD form where FEATURE FUNCTION is set to "TEMEROVR". Therefore, the ATT MLHG on the DSLUSR, MLHLN or SHTN form must be entered. In addition, the ATT MLHG must be defined on a corresponding MLHG form with a MLHG FEATURE defined on a MLHGFD form that has HUNT TYPE set to "ISAT".

For 5E9(2) and later, when TN(s) on the LINE form or CKT TN(s) on the DSLUSR form or TN(s) on the SHTN form are assigned a Call Pickup Terminating Feature on the LINEFA, BFG or associated CLUSTR form, and this Call Pickup Terminating Feature is defined on a PUTFD form where FEATURE FUNCTION is "TEMEROVR", then:

- the ATT MLHG on the LINE, DSLUSR or SHTN form must be entered
- the ATT MLHG must be defined on a corresponding MLHG form with an MLHG FEATURE defined on a MLHGFD form that has HUNT TYPE set to "ISAT"
- either the ATT MLHG field is blank, or the ATT MLHG field is entered but not associated with a HUNT TYPE of "ISAT".

For 5E9(2) and later, when TN(s) on the LINE form or CKT TN(s) on the DSLUSR form or TN(s) on the SHTN form are assigned a Call Pickup Terminating Feature on the LINEFA, BFG or associated CLUSTR form, and this Call Pickup Terminating Feature is defined on a PUTFD form where FEATURE FUNCTION is "TBSYVFY", then:

- the ATT MLHG or RVB TGN on the LINE, DSLUSR or SHTN form must be entered
- when the ATT MLHG is entered, it must be defined on a corresponding MLHG form with an MLHG FEATURE defined on a MLHGFD form that has HUNT TYPE set to "ISAT"
- either the ATT MLHG and RBV TGN fields are both blank, or the ATT MLHG field is entered but not associated with a HUNT TYPE of "ISAT".

2.7 BARGE IN TONE INDICATOR

Description: This field informs the "barged-in upon party of an existing call in the talking state that another party is barging-in on the call. The tone is given to the party being barged-in upon and will be given regardless of whether or not this party originated the existing call.

Required Field for 5E4(2) and later.
Default: NONE
Valid Entries:

Valid BARGE IN TONE INDICATOR Entries

Entry	Definition
NONE	No Tone
BEEP1	One Beep

NOTE: For 5E2 and 5E3, "NONE" is the default value and the only value allowed except for Call Pick-Up Terminating features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Data Rules:

For 5E4(2) and later, if BARGE IN TONE INDICATOR is "BEEP1", then FEATURE FUNCTION must be "DIRPUBRG", "HDIRPUBRG", "TBSYVFY", or "TEMEROVR".

2.8 ORIG/TERM CALL

Description: This field is used for Directed Pick-Up with Barge-in. Filtering is based on the call on which barge-in is being attempted.

Required Field for 5E4(2) and later.
Default: NONE
Valid Entries:

Valid ORIG/TERM CALL Entries

Entry	Definition
ORCAL	Originating calls
TERMCAL	Terminating calls
ACALNFLT	Any calls - indicates no filtering.
NONE	Not applied

NOTE: For 5E2 and 5E3, "NONE" is the default value and the only value allowed except for Call Pick-Up Terminating features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Data Rules:

For 5E4(2) and later, if ORIG/TERMCALL is "ACALNFLT", then FEATURE FUNCTION must be "DIRPUBRG", "HDIRPUBRG", "TBSYVFY", or "TEMEROVR".

For 5E9(1) and later, if ORIG/TERMCALL is "NONE", then FEATURE FUNCTION must be "CALPU" or "DIRPU".

For 5E9(1) and later, if ORIG/TERMCALL is "ORGCAL", then FEATURE FUNCTION must be "DIRPUBRG" or "HDIRPUBRG".

For 5E9(1) and later, if ORIG/TERMCALL is "TERMCAL", then FEATURE FUNCTION must be "DIRPUBRG" or "HDIRPUBRG".

2.9 MULTIWAY FEATURE

Description: When a party having direct pickup with barge-in terminating feature is in the talking state, and another party having direct pickup with barge-in originating feature attempts to barge in, call processing control is passed to the multiway feature where it has an entry point from Call Pick-Up. Enter a MULTIWAY FEATURE name if FEATURE FUNCTION is "DIRPUBRG" or "HDIRPUBRG". MULTIWAY FEATURE name has no restrictions on the valid characters. Wild-card feature (/MW*) is not allowed.
Valid Entries: 1 - 8 characters

Data Rules:

For 5E4(2) and later, the assigned MULTIWAY FEATURE must have the following characteristics: On the MWFD form (5602 Record), 3 WAY ORIG PTY for ATTENDANT, INTRAGRP, INTRAOFC, INTEROFC, and PVTFAC must be "Y"; 3WAY ADDED PTY for ATTENDANT, INTRAGRP, INTRAOFC, INTEROFC, and PVTFAC must equal the values for ATTENDANT?, INTRA TERMINAL GROUP?, INTRA OFFICE?, INTER OFFICE?, and PRIVATE FACILITY ACCESS? respectively on the PUTFD form.

When a terminal (line) defined on the DSLUSR form (5908 Record) has an associated CLASS OF SERVICE of "ISDN" on the LCC form (5306 Record), and the line has been assigned a Call Pick-Up Terminating feature on the MLHLNFA, CLUSTR (5600 Record), BFG, or LINEFA form with the feature also defined on this form and a value entered in this field, then on the MWFD form, the ENTRY POINT for CALL PICK-UP field must be "N", and ISDN ENTRY POINT for ISDN CALL PICK-UP field must be "Y".

When a CKT TN defined on a DSLUSR form has an associated Class of Service of "ISDN", and the TN is assigned a Call Pick-Up Terminating feature on the LINEFA form, or on an associated BFG or CLUSTR form, with the feature defined on this form with a value entered in the MULTIWAY FEATURE field and FEATURE FUNCTION set to "TEMEROVR", then on the MWFD form ISDN CALL PICKUP must be set to "Y".

If the Call Pick-Up Terminating feature has FEATURE FUNCTION equal to "HDIRPUBRG", then on the MWFD form, the MULTIWAY TRANSFER must be "ALW".

CALL SELECTION

Call Selection specifies the condition under which a called line should be added to the pickup group for a particular line. The type of call must be known at the time the pickup is attempted.

2.10 ATTENDANT?

Description: Are attendant calls allowed?

Required Field for 5E5 and later.
Default: Y
Valid Entries: Y, N

2.11 INTRA OFFICE?

Description: Are Intraoffice calls allowed?

Required Field for 5E5 and later.
Default: Y
Valid Entries: Y, N

Data Rules:

The note in Section 2.10 also applies here.

2.12 INTRA TERMINAL GROUP?

Description: Are Intraterminal Group calls allowed?

Required Field for 5E5 and later.
Default: Y
Valid Entries: Y, N

Data Rules:

The note in Section 2.10 also applies here.

2.13 INTER OFFICE?

Description: Are Interoffice calls allowed?

Required Field for 5E5 and later.
Default: Y
Valid Entries: Y, N

Data Rules:

The note in Section 2.10 also applies here.

2.14 PRIVATE FACILITY ACCESS?

Description: Are Private Facility Access calls allowed?

Required Field for 5E5 and later.
Default: Y
Valid Entries: Y, N

Data Rules:

The note in Section 2.10 also applies here.

DEFAULT PARAMETERS

Fields Section 2.15 -Section 2.17 define the default parameters assigned with the feature to lines. These parameters will be assigned to the line unless they are over-ridden by entries on the PULPA (5605-3 Record) or PUMPA (5605-4 Record) forms.

2.15 TERM PICK-UP GROUP

Description: Enter the Terminating Pick-Up Group.
Valid Entries: 2 - 65535

Data Rules:

If this field has an entry, then FEATURE FUNCTION must be "CALPU".

2.16 TONE INTERVAL

Description: Enter the Barge-in Tone Interval in seconds. An entry of 0 indicates no repetition.

Software Release: 5E5 and earlier
Valid Entries: 0, blank

2.17 TONE DURATION

Description: Enter the Barge-in Tone Duration in milliseconds.

Software Release: 5E5 and earlier
Valid Entries: 900, blank

Data Rules:

For 5E4(2) and 5E5, if Tone Duration is 900, then FEATURE FUNCTION must be "DIRPUBRG", "HDIRPUBRG", "TBSYVFY", or "TEMEROVR".

ESS 5605-2(03)TG-5 CALL PICKUP TERMINATING FEATURE DEFINITION RECORD DATE ___________
PUTFD 5ESS SWITCH
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	ACT TYPE	DACT TYPE	FEATURE FUNCTION	BARGE IN TONE	ORIG TERM CALL	MULTI WAY FEATURE	CALL SELECT					DEF PARM		
								ATTNDNT	INTRAOF	INTRATG	INTEROF	PFA	TERM PICKUP GROUP	TONE INTVL	TONE DURN
/CPBDNT	BLOCK DPN TERMINATING	AUTO	NONE	DIRPU	NONE	NONE		N	N	N	N	N			
/CPUDT	DIRECTED PICKUP TERMINATING	AUTO	NONE	DIRPUBRG	BEEP1	ACALNFLT	/MWCP	Y	Y	Y	Y	Y		0	900
/CPUEOT	ANALOG EMERGENCY OVERRIDE TERMINATING	AUTO	NONE	TEMEROVR	BEEP1	ACALNFLT	/MWCP	Y	Y	Y	Y	Y		0	900
/CPUIDT	ISDN CALL PICKUP WITH BARGE-IN	AUTO	NONE	DIRPUBRG	BEEP1	ACALNFLT	/MWISPU	Y	Y	Y	Y	Y		0	900
/CPUIEOT	ISDN EMERGENCY OVERRIDE TERMINATING	AUTO	NONE	TEMEROVR	BEEP1	ACALNFLT	/MWISPU	Y	Y	Y	Y	Y		0	900
/CPUIHD	ISDN PICKUP /W BARGE-IN	AU	NO	HDIRPU	BE	ACALN	/MWIS	Y	Y	Y	Y			0	90

T	HELD CALL	TO	NE	BRG	EP1	FLT	PUH					Y			0
/CPUIVT	ISDN BUSY VERIFY TERMINATING	AUTO	NONE	TBSYUFY	BEEP1	ACALNFLT	/MWISPU	Y	Y	Y	Y	Y		0	900
/CPUT	CALL PICKUP TERMINATING	AUTO	NONE	CALPU	NONE	NONE		Y	Y	Y	Y	Y			
/CPUVT	ANALOG BUSY VERIFY TERMINATING	AUTO	NONE	TBSYUFY	BEEP1	ACALNFLT	/MWCP	Y	Y	Y	Y	Y		0	900

Figure 1 PRECONSTRUCTED CALL PICK-UP TERMINATING FEATURES 5E9(1) AND LATER SOFTWARE RELEASES

```
putfd                             5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5605-2a/b)       CALL PICKUP TERMINATING FEATURE DEFINITION

*1. FEATURE NAME
 3. REMARKS      ________________________________

           FEATURE OPTIONS
 4. ACT TYPE                AUTO
 5. DACT TYPE               NONE
 6. FEATURE FUNCTION        CALPU
 7. BARGE IN TONE INDICATOR NONE
 8. ORIG/TERM CALL          NONE
 9. MULTIWAY FEATURE        ________
```

```
putfd                             5ESS Switch           _
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5605-2a/b)       CALL PICKUP TERMINATING FEATURE DEFINITION

        CALL SELECTION
10. ATTENDANT?               Y
11. INTRA OFFICE?            Y
12. INTRA TERMINAL GROUP?    Y
13. INTER OFFICE?            Y
14. PRIVATE FACILITY ACCESS? Y

     DEFAULT PARAMETERS
15. TERM PICKUP GROUP _____
```

Figure 2 SAMPLE PUTFD FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 6C: 5605-3 RECORD
CALL PICKUP LINE (TN) PARAMETER FORM - PULPA

1. GENERAL

The 5605-3 Record is available with 5E2 and later Software Releases. It is used to define specific parameters assigned to every non-Multi-Line Hunt Group line associated with a specific constructed call pickup feature. It is required only if the default parameters assigned on the PUOFD or PUTFD forms are inappropriate.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.23.

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 * TN

Enter a Telephone Number.

Required Field.

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
INDIV	Individual Line
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
ISDN	Digital Subscriber Line associated ISDN (Integrated Services Digital Network) service.
PBX	Line to a PBX.

2.3 * FEATURE

Description: Enter the feature name. There are no restrictions on the valid characters except that the first character may not be a slash (/). Feature Names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

For 5E12 and later, TN/FEATURE combinations on different PULPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the PULPA 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 TNs must be 10-digit TNs with the NPA/OFFICE CODE defined on the NOC form.

2.4 # TERM PICKUP GROUP

Description: Enter the Terminating Pickup Group.

Required Field.
Valid Entries: 1 - 65534.

Data Rules:

This field must have a value of 1 if the FEATURE field on this form appears in the FEATURE NAME field of a PUOFD form (5605-1 Record). This field must have a value in the range of 2 to 65534 if the FEATURE field on this form appears in the FEATURE NAME field of a PUTFD form with a FEATURE FUNCTION of "CALPU".

If this field has a value of 2 to 65534, then DIRECT PICKUP TN, ORIG PICKUP GROUPs 1-4, TGN and MEMB must not be entered.

2.5 TONE INTERVAL

Description: Enter the Barge-in Tone repetition Interval in seconds.
Valid Entries: 0 (seconds)

Data Rules:

For 5E4(2) and later, TONE INTERVAL is entered only if the associated FEATURE FUNCTION on the PUTFD form is "DIRPUBRG", "TBSYVFY" or "TEMEROVR".

2.6 TONE DURATION

Description: Enter the Barge-in Tone Duration in milliseconds.
Valid Entries: 900 (milliseconds)

Data Rules:

TONE DURATION is entered only when FEATURE FUNCTION on the PUTFD form equals "DIRPUBRG".

2.7 DIRECT PICKUP TN

Description: The name of this field was changed to DPU TN in 5E12. This field name applies to 5E11 and earlier. See DPU TN for usage information.
When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

2.8 DPU TN

Description: Enter the Telephone Number served by this office. This field was called DIRECT PICKUP TN for 5E11 and earlier.

Software Release: 5E12 and later
Valid Entries: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

If DPU TN is entered, ORIG PICKUP GROUP 1 and TGN must not be specified.

If this field has an entry, then INITIATE on the PUOFD form must be "IPREDN". The corresponding PUOFD form is found by matching FEATURE on this form with FEATURE NAME on the PUOFD form.

If the first 3 digits of the 7-digit DPU TNs on the PULPA 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 DPU TN must be a 10-digit TN.

NXX(s) (the first 3 digits of a 7-digit TN) and/or NPA/NXX combinations (the first 6 digits of a 10-digit TN) from the DPU TN on the PULPA form must be defined as OFFICE CODE and/or NPA OFFICE CODE on the NOC form.

If the PULPA forms have a DPU TN entry, the corresponding PUOFD forms must have an INITIATE entry of "IPREDN".

If the TN(s) is missing the DPU TN assignment on the PULPA form or in the PUOFD form's default parameters but the Call Pickup Originating Feature with INITIATE equal to "IPREDN" on the PUOFD form, the Direct Pickup TN has to be specified if Call Pickup Originating is initiated by a predesignated TN.

2.9 ORIG PICKUP GROUP 1

Description: Enter the queue (Group) that the customer can Originate to Pickup.
Valid Entries: 2 - 65534

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If ORIG PICKUP GROUP 1 is entered, DIRECT PICKUP TN and TGN must not be specified.

If ORIG PICKUP GROUP 1 is entered, then the NUMBER OF PICKUP GROUPS on the associated PUOFD form must be 1, 2, 3 or 4.

2.10 ORIG PICKUP GROUP 2

Description: Enter the queue (Group) that the customer can Originate to Pickup.
Valid Entries: 2 - 65534

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 2 is entered, ORIG PICKUP GROUP 1 must be specified.

If ORIG PICKUP GROUP 2 is entered, then the NUMBER OF PICKUP GROUPS on the associated PUOFD form must be 2, 3 or 4.

2.11 ORIG PICKUP GROUP 3

Description: Enter the queue (Group) that the customer can Originate to Pickup.
Valid Entries: 2 - 65534

Data Rules:

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 3 is entered, ORIG PICKUP GROUP 1 and 2 must be specified.

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If ORIG PICKUP GROUP 3 is entered, then the NUMBER OF PICKUP GROUPS on the associated PUOFD form must be 3 or 4.

2.12 ORIG PICKUP GROUP 4

Description: Enter the queue (Group) that the customer can Originate to Pickup.
Valid Entries: are 2 - 65534

Data Rules:

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 4 is entered, ORIG PICKUP GROUP 1, 2 and 3 must be specified.

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If ORIG PICKUP GROUP 4 is entered, then the NUMBER OF PICKUP GROUPS on the associated PUOFD form must be 4.

2.13 # NOTIFY 1

Description: Provide visual notification that a call should be picked up from pickup group 1. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 1 is "Y", ORIG PICKUP GROUP 1 must be entered.

When NOTIFY 1 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 1 can be changed to a "Y".

NOTIFY 1 can be set to "Y" only when the associated Class of Service of the TN is "ISDN".

2.14 # NOTIFY 2

Description: Provide visual notification that a call should be picked up from pickup group 2. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 2 is "Y", ORIG PICKUP GROUP 2 must be entered.

When NOTIFY 2 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 2 can be changed to a "Y".

NOTIFY 2 can be set to "Y" only when the associated Class of Service of the TN is "ISDN".

2.15 # NOTIFY 3

Description: Provide visual notification that a call should be picked up from pickup group 3. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 3 is "Y", ORIG PICKUP GROUP 3 must be entered.

When NOTIFY 3 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 3 can be changed to a "Y".

NOTIFY 3 can be set to "Y" only when the associated Class of Service of the TN is "ISDN".

2.16 # NOTIFY 4

Description: Provide visual notification that a call should be picked up from pickup group 4. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 4 is "Y", ORIG PICKUP GROUP 4 must be entered.

When NOTIFY 4 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

NOTIFY 4 can be set to "Y" only when the associated Class of Service of the TN is "ISDN".

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 4 can be changed to a "Y".

2.17 TGN

Description: Enter the Trunk Group Number for Code Calling or Loud Speaker Paging.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If TGN is entered, ORIG PICKUP GROUP 1 and DIRECT PICKUP TN must not be specified.

If TGN and MEMB are specified, then INITIATE on the associated PUOFD form (5605-1 Record) must be "CDCAL" or "LDSPKG".

2.18 MEMB

Description: Enter the Trunk Group member number for Code Calling or Loud Speaker Paging.
Valid Entries: 0 - 1951

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be specified.

If TGN is entered, MEMB must be specified.

```
pulpa                             5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5605-3)               CALL PICKUP LINE (TN) PARAMETERS

*1. TN      __________                 DIRECTED PICKUP
*2. FEATURE ________             10. DPU TN      __________

#3. TERM PICKUP GROUP   _____
 4. ORIG PICKUP GROUP 1 _____
 5. ORIG PICKUP GROUP 2 _____
 6. ORIG PICKUP GROUP 3 _____
 7. ORIG PICKUP GROUP 4 _____
 8. TGN                 ____
 9. MEMB                ____
```

Figure 1 SAMPLE PULPA FORM 5E12 THROUGH 5E14 SOFTWARE RELEASES

```
pulpa                             5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5605-3)               CALL PICKUP LINE (TN) PARAMETERS

*1. TN      __________           12. TGN    ____
*2. FEATURE ________             13. MEMB   ____
                                 14. DPU TN __________
#3. TERM PICKUP GROUP   _____
 4. ORIG PICKUP GROUP 1 _____
 5. ORIG PICKUP GROUP 2 _____
 6. ORIG PICKUP GROUP 3 _____
 7. ORIG PICKUP GROUP 4 _____
 8. NOTIFY 1            N
 9. NOTIFY 2            N
10. NOTIFY 3            N
11. NOTIFY 4            N
```

Figure 2 SAMPLE PULPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 6D: 5605-4 RECORD
CALL PICKUP LINE (MLHG/TERM) PARAMETER FORM - PUMPA

1. GENERAL

The 5605-4 Record is available with 5E2 and later Software Releases. It is used to define specific parameters assigned to every Multi-Line Hunt Group line associated with a specific constructed call pickup feature. It is required only if the default parameters assigned on the PUOFD or PUTFD forms are inappropriate.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.23.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number.

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

2.3 * TERM

Description: Enter the Multi-Line Hunt member number.
Valid Entries: 1 - 2015 and 3001-3999 (Outdial Terminals only)

Data Rules:

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be one of the following:

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.
ISDN	Digital Subscriber Line associated ISDN Service.
ISATND	ISDN (Integrated Service Digital Network) attendant.

If the class of service is "ISATND", the INITIATE field on the PUOFD form (5605-1a/b Record) must be "BSYVFY".

2.4 * FEATURE

Description: Enter the feature name. There are no restrictions on the valid characters, except that the first character may not be a slash (/). Feature Names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

2.5 # TERM PICKUP GROUP

Description: Enter the Terminating Pickup Group. Call Pickup Terminating may be assigned to MLHG terminals.

Required Field.
Default: 1
Valid Entries: 1 - 65534

Data Rules:

This field must have a value of 1 if the FEATURE field on this form appears in the FEATURE NAME field of a PUOFD form. This field must have a value of 2 to 65534 if the FEATURE field on this form appears in the FEATURE NAME field of a PUTFD form with a FEATURE FUNCTION of "CALPU".

2.6 TONE INTERVAL

Description: Enter the barge-in tone repetition interval.
Valid Entries: 0

2.7 TONE DURATION

Description: Enter the barge-in tone duration.
Valid Entries: 900

2.8 DIRECT PICKUP TN

Description: The name of this field was changed to DPU TN in 5E12. This field name applies to 5E11 and earlier. See DPU TN for usage information.

2.9 DPU TN

Description: Enter the Telephone Number served by this office. This field was called DIRECT PICKUP TN for 5E11 and earlier.

Software Release: 5E12 and later
Valid Entries: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If DPU TN is entered, ORIG PICKUP GROUP 1 and TGN must not be specified.

If the DPU TN is entered, the INITIATE field on the PUOFD form must be "IPREDN".

If the first 3 digits of the 7-digit DPU TNs on the PUMPA 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 DIRECT PICKUP TN must be a 10-digit TN(s).

NXX(s) (the first 3 digits of a 7-digit TN) and/or NPA/NXX combinations (the first 6 digits of a 10-digit TN) from the DPU TN on the PUMPA form must be defined as OFFICE CODE and/or NPA OFFICE CODE on the NOC form.

If the MLHG/TERM(s) is missing the DPU TN assignment on the PUMPA form or in the PUOFD form's default parameters but the Call Pickup Originating Feature with INITIATE equal to "IPREDN" on the PUOFD form, the Directed Pickup TN has to be specified if Call Pickup Originating is initiated by a predesignated TN.

2.10 ORIG PICKUP GROUP 1

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If ORIG PICKUP GROUP 1 is entered, Direct PICKUP TN and TGN must not be specified.

If ORIG PICKUP GROUP 1 is entered, the NUMBER OF PICKUP GROUPS on the PUOFD form (5605-1 Record) must be 1, 2, 3 or 4.

2.11 ORIG PICKUP GROUP 2

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If ORIG PICKUP GROUP 2 is entered, the NUMBER OF PICKUP GROUPS on the PUOFD form (5605-1 Record) must be 2, 3 or 4.

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 2 is specified, then ORIG PICKUP GROUP 1 must be specified.

2.12 ORIG PICKUP GROUP 3

Description: Enter the queue (group) that the customer can originate to pick up.
Valid Entries: 2 - 65534

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If ORIG PICKUP GROUP 3 is entered, the NUMBER OF PICKUP GROUPS on the PUOFD form (5605-1 Record) must be 3 or 4.

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 3 is specified, then ORIG PICKUP GROUP 1 and 2 must be specified.

2.13 ORIG PICKUP GROUP 4

Description: Enter the queue (group) that the customer can originate to pick up.

Valid Entries: 2 - 65534

Data Rules:

If ORIG PICKUP GROUP 4 is entered, the NUMBER OF PICKUP GROUPS on the PUOFD form (5605-1 Record) must be 4.

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If TERM PICKUP GROUP is 1 and ORIG PICKUP GROUP 4 is specified, then ORIG PICKUP GROUP 1, 2 and 3 must be specified.

2.14 # NOTIFY 1

Description: Provide visual notification that a call should be picked up from pickup group 1. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 1 is "Y", ORIG PICKUP GROUP 1 must be entered.

NOTIFY 1 can be set to "Y" only when the associated Class of Service of the MLHG/TERM is "ISDN".

When NOTIFY 1 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 1 can be changed to a "Y".

2.15 # NOTIFY 2

Description: Provide visual notification that a call should be picked up from pickup group 2. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 2 is "Y", ORIG PICKUP GROUP 2 must be entered.

NOTIFY 2 can be set to "Y" only when the associated Class of Service of the MLHG/TERM is "ISDN".

When NOTIFY 2 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP

GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 2 can be changed to a "Y".

2.16 # NOTIFY 3

Description: Provide visual notification that a call should be picked up from pickup group 3. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 3 is "Y", ORIG PICKUP GROUP 3 must be entered.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 3 can be changed to a "Y".

NOTIFY 3 can be set to "Y" only when the associated Class of Service of the MLHG/TERM is "ISDN".

When NOTIFY 3 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

2.17 # NOTIFY 4

Description: Provide visual notification that a call should be picked up from pickup group 4. This field was added for the Visual Call Pickup feature (99-5E-2551). For more information on this feature, see Division 2, Section 4A578.

Required Field.

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

Data Rules:

When NOTIFY 4 is "Y", ORIG PICKUP GROUP 4 must be entered.

NOTIFY 4 can be set to "Y" only when the associated Class of Service of the MLHG/TERM is "ISDN".

When NOTIFY 4 is set to "Y", no more than 30 ISDN terminals can be assigned to each ORIG PICKUP GROUP.

The ACT field for SFID 578 on the SFSYS form must be set to "Y", before the default value for NOTIFY 4 can be changed to a "Y".

2.18 TGN

Description: Enter the Trunk Group Number for Code Calling or Loud Speaker Paging.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If TGN is entered, ORIG PICKUP GROUP 1 and DIRECT PICKUP TN must not be specified.

If TGN and MEMB are entered, then the INITIATE field on the associated PUOFD form must be "CDCAL" or "LDSPKPG", and the SLVLD SPN associated field on the TRUNK form (5204 Record) must be specified.

2.19 MEMB

Description: Enter the Trunk Group Member Number for Code Calling or Loud Speaker Paging.
Valid Entries: 0 - 1951

Data Rules:

When TERM PICKUP GROUP is 2 to 65534, this field must not be entered.

If TGN is entered, MEMB must be specified.

```
pumpa                             5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5605-4)            CALL PICKUP LINE (MLHG/TERM) PARAMETERS

*1. MLHG    ____                       DIRECTED PICKUP
*2. TERM    ____                 11. DPU TN      __________
*3. FEATURE ________

#4. TERM PICKUP GROUP   00001
 5. ORIG PICKUP GROUP 1 _____
 6. ORIG PICKUP GROUP 2 _____
 7. ORIG PICKUP GROUP 3 _____
 8. ORIG PICKUP GROUP 4 _____
 9. TGN                 ____
10. MEMB                ____
```

Figure 1 SAMPLE PUMPA FORM 5E12 THROUGH 5E14 SOFTWARE RELEASES

```
pumpa                             5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5605-4)            CALL PICKUP LINE (MLHG/TERM) PARAMETER

*1. MLHG    ____                  9. NOTIFY 1 N
*2. TERM    ____                 10. NOTIFY 2 N
```

```
*3. FEATURE ________                11. NOTIFY 3 N
                                     12. NOTIFY 4 N
#4. TERM PICKUP GROUP   00001       13. TGN      ____
 5. ORIG PICKUP GROUP 1 _____       14. MEMB     ____
 6. ORIG PICKUP GROUP 2 _____       15. DPU TN   __________
 7. ORIG PICKUP GROUP 3 _____
 8. ORIG PICKUP GROUP 4 _____
```

Figure 2 SAMPLE PUMPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 6E: 5605-5 RECORD
CALL PICKUP TERMINATING GROUP DATA FORM - PUGD

This section has been removed from the TG-5.

SEC. 7: DISTINCTIVE RINGING FORMS

SEC. 7A: 5606-1 RECORD
DISTINCTIVE RINGING FEATURE DEFINITION FORM - DRFD

1. GENERAL

The 5606-1 Record is available with 5E2 and later Software Releases. It is used to define various combinations of DR (Distinctive Ringing) feature characteristics for assignment to lines or ISDN terminals. DR provides seven ringing patterns. Each combination is given a feature name of one to eight characters which is used to assign the constructed (defined) feature to lines. Certain DR features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed DR features is contained in Figure Figure 1 .

A customer subscribing to a Distinctive Ringing feature may have distinctive ringing cycles based upon whether the incoming call is intra- or inter-terminal group, Dial Call Waiting, Call Waiting Originating or completed over private facilities.

A terminal (line or trunk) must be assigned a Distinctive Ringing feature on the appropriate feature assignment form, LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), TKGRPFA (5206 Record), or TRUNKFA (5205 Record).

When a DR feature is assigned to a TN on a LINE form (5109 form) or to a CKT TN on a DSLUSR form (5908 Record) via a LINEFA, BFG, or associated CLUSTR form, then the TN must have an LCC/RAX defined on the LCC form (5306 form) with a service class of "INDIV", "ATND", "4WINDIV", "PBX", or "ISDN".

Distinctive Ringing features cannot be assigned to members of a Multi-Line Hunt Group that it is a Multiple Position Hunt Group or an ISDN Attendant Terminal Hunt Group. A Multi-Line Hunt Group is one of the above types if the HUNT TYPE on the associated MLHGFD form (5604 Record) is set to "MUPH" or "ISAT".

1.1 Recent Change View

The corresponding Recent Change view for this form is 12.16.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: Enter the Feature Name. Feature names have no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed, or inserted.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The feature name must be unique and cannot be duplicated on any other BRCS feature definition form.

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

2.4 ACT TYPE

Description: Enter the method of feature activation.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
CODE	Dial code activation.
AUTO	Automatic activation.

Data Rules:

For 5E7 and earlier when ACT TYPE is "CODE", DACT TYPE must be "AUTO" or "CODE"; when ACT TYPE is "AUTO", DACT TYPE must be "NONE" or "CODE".

For 5E7 and later, if Telephone Numbers on the LINEFA form or the MLHG/TERM on the MLHLNFA form are assigned a Distinctive Ringing Feature with the Activation Type entry set to "AUTO" on the DRFD form, the corresponding Initial Activation Status entry on the LINEFA form or the MLHLNFA form, the BFG form, or an associated CLUSTR form must be equal to "Y".

For 5E8 and later when ACT TYPE is "CODE", DACT TYPE must be "CODE".

2.5 DACT TYPE

Description: Enter the method of feature deactivation.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
AUTO	Automatic deactivation.
CODE	Dial code deactivation.
NONE	No feature deactivation.

2.6 ATTENDANT

Description: Is the attendant filtering criteria allowed?

"Y" is the only value allowed except for preconstructed features and those copied from a preconstructed feature using the ODA change-insert feature.
Default: Y
Valid Entries: Y

2.7 INTRA OFF

Description: Is intra-office filtering criteria allowed?

"Y" is the only value allowed except for preconstructed features and those copied from a preconstructed feature using the ODA change-insert feature.
Default: Y
Valid Entries: Y

2.8 INTER OFF

Description: Is inter-office filtering criteria allowed?

"Y" is the only value allowed except for preconstructed features and those copied from the preconstructed feature using the ODA change-insert feature.
Default: Y
Valid Entries: Y

2.9 INTRA TG

Description: Is intra-terminal group filtering criteria allowed?

"Y" is the only value allowed except for preconstructed features and those copied from the preconstructed feature using the ODA change-insert feature.
Default: Y
Valid Entries: Y

2.10 PFA

Description: Is private facility filtering criteria allowed?

"Y" is the only value allowed except for preconstructed features and those copied from the preconstructed feature using the ODA change-insert feature.
Default: Y
Valid Entries: Y

2.11 FEAT TYPE

Description: Enter the feature filtering type.

"NONE" is the only value allowed except for preconstructed features and those copied from the preconstructed feature using the ODA change-insert feature.
Default: NONE
Valid Entries:

Valid FEAT TYPE Entries

Entry	Definition
CWO	Call Waiting Originating.
DCW	Dial Call Waiting.
CFV	Call Forwarding Variable.
MWY	Multiway Calling.
PP	Precedence and Preemption.
NONE	No filtering.

2.12 CHANGE RINGING PATTERN?

Description: Is the customer allowed to change the ringing pattern via a use code?
Default: N

Valid Entries: Y, N

DEFAULT PARAMETER

The following field (Section 2.13) is the only default parameter for DR features.

2.13 RINGING PATTERN TYPE

Description: Enter the DR patterns.
Default: A
Valid Entries:

Valid RINGING PATTERN TYPE Entries

Entry	Definition
A	A repeated pattern of 2 seconds on and 4 seconds off (normal ringing pattern) or Pattern 0 for ISDN terminals.
B	A repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on, followed by 4 seconds off or Pattern 1 for ISDN terminals.
C	A repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on, and 4.0 seconds off or Pattern 2 for ISDN terminals.
D	A repeated pattern of 1.0 seconds on, 1.0 seconds off, 1.0 seconds on, and 3.0 seconds off (also known as Code 2 ringing) or Pattern 3 for ISDN terminals.
E	A routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
F	A priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
P	A precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval or Pattern 5 for ISDN terminals.

ESS 5606-1(01)TG-5 DISTINCTIVE RINGING DATE ___________

FEATURE DEFINITION RECORD

DRFD 5ESS SWITCH

12.16

BASE______CONT GR____ 5ESS UNIT ___________________

<table>
<tr><td rowspan="2">FEATURE NAME</td><td rowspan="2">REMARKS</td><td colspan="10">FEATURE OPTIONS</td><td>D
P
E
A
F
R
A
M</td></tr>
<tr><td>ACT TYPE</td><td>DACT TYPE</td><td>ATT</td><td>IONF</td><td>IONF</td><td>ITNG</td><td>PFA</td><td>FEATT</td><td>RPIA</td><td>RPIT</td><td></td></tr>
</table>

				ENDANT	TFRA	TFER	TER		YPE	NTG	NNG
/DR*	DIST. RINGING WILDCARD	AUTO	NONE	N	Y	Y	N	Y	NONE	N	A
/DRATT	DIST. RINGING ATTENDANT AND MW	AUTO	NONE	Y	N	N	N	N	MWY	N	B
/DRCWO	DIST. RINGING CALL WAITING ORIG.	AUTO	NONE	Y	N	N	Y	N	CWO	N	C
/DRDCW	DIST. RINGING DIAL CALL WAITING	AUTO	NONE	Y	N	N	Y	N	DCW	N	C
/DRIC	DIST. RINGING INCOMING ONLY	AUTO	NONE	N	Y	Y	N	Y	NONE	N	B
/DRNS	DIST. RINGING NIGHT SERVICE	AUTO	NONE	Y	N	N	N	N	CFV	N	B
/DRPP	DR PRECEDENCE AND PREEMPTION	AUTO	NONE	Y	Y	Y	Y	Y	PP	N	P

Figure 1 PRECONSTRUCTED DR FEATURES 5E9(2) AND LATER SOFTWARE RELEASES

```
drfd                             5ESS Switch             _
(5606-1)                  OFFICE DATA ADMINISTRATION
                    DISTINCTIVE RINGING FEATURE DEFINITION

* 2. FEATURE NAME  CUSTFEAT       3. REMARKS    SAMPLE FEATURE

  4.  ACT TYPE                    AUTO
  5.  DACT TYPE                   NONE
  6.  ATTENDANT                   Y
  7.  INTRA OFF                   Y
  8.  INTER OFF                   Y
  9.  INTRA TG                    Y
 10.  PFA                         Y
 11.  FEAT TYPE                   NONE
 12.  CHANGE RINGING PATTERN ?    Y

 DEFAULT PARAMETER:
```

```
 13.  RINGING PATTERN TYPE       B
```

Figure 2 SAMPLE DRFD FORM 5E2 AND LATER SOFTWARE RELEASES

SEC. 7B: 5606-2 RECORD
DISTINCTIVE RINGING LINE PARAMETER FORM - DRLPA

1. GENERAL

The 5606-2 Record is available with the 5E2 and later Software Releases. It defines the DR (Distinctive Ringing) parameters for individual lines if the default parameters associated with the DR feature on the DRFD form (5606-1 Record) are inappropriate or unspecified. Do not enter this record if the DR default parameters are acceptable.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.25.

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 * TN

Description: Enter the Telephone Number of the customer.

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:

The Telephone Number entered here must be defined on the LINE form (5109 Record).

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Non-data Link Console Line or Attendant Line.
INDIV	Individual Line.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
PBX	Line to a PBX.

For 5E12 and later, TN and FEATURE NAME combinations on different DRLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the DRLPA 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 * FEATURE NAME

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The feature name must be defined on the DRFD form.

2.4 RING PTN

Description: Enter the DR patterns.
Default: A
Valid Entries:

Valid RING PTN Entries

Entry	Definition
A	A repeated pattern of 2 seconds on and 4 seconds off (normal ringing pattern).
B	A repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on followed by 4 seconds off.
C	A repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on and 4.0 seconds off.
D	A repeated pattern of 1.0 second on, 1.0 second off, 1.0 second on and 3.0 seconds off (also known as Code 2 ringing).
E	A routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
F	A priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
P	A precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval.

```
drlpa                           5ESS Switch            _
(5606-2)                 OFFICE DATA ADMINISTRATION
                    DISTINCTIVE RINGING LINE PARAMETERS

* 1. TN                  5735201
* 2. FEATURE NAME        ABC
  3. RING PTN            B
```

Figure 1 SAMPLE DRLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
drlpa                            5ESS Switch           _
                         OFFICE DATA ADMINISTRATION
(5606-2)                 DISTINCTIVE RINGING LINE PARAMETERS

*1. TN            __________
*2. FEATURE NAME _________
 3. RING PTN      A
```

Figure 2 SAMPLE DRLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 7C: 5606-3 RECORD DISTINCTIVE RINGING LINE (MLHG/TERM) PARAMETER FORM - DRMPA

1. GENERAL

The 5606-3 Record is available with the 5E2 and later Software Releases. It defines the DR (Distinctive Ringing) parameters for individual lines. If the default parameters associated with the DR feature on the DRFD form (5606-1 Record) are inappropriate or unspecified. Do not enter this record if the DR default parameters are acceptable.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.25.

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 * MLHG

Description: Enter the Multi-Line Hunt Group number.

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

2.3 * TERM

Enter the Multi-Line Hunt Group Member number.

Required Field.

Data Rules:
The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.

2.4 * FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The feature name must be defined on the DRFD form.

2.5 RINGING PATTERN TYPE

Description: Enter the DR pattern.
Default: A
Valid Entries:

Valid RING PTN Entries

Entry	Definition
A	A repeated pattern of 2 seconds on and 4 seconds off (normal ringing pattern).
B	A repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on, followed by 4 seconds off.
C	A repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.4 seconds on, 0.2 seconds off, 0.8 seconds on, and 4.0 seconds off.
D	A repeated pattern of 1.0 second on, 1.0 second off, 1.0 second on, and 3.0 seconds off (also known as Code 2 ringing).
E	A routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
F	A priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
P	A precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval.

```
drmpa                             5ESS Switch              _
(5606-3)                   OFFICE DATA ADMINISTRATION
               DISTINCTIVE RINGING LINE (MLHG/TERM) PARAMETERS



* 1. MLHG                          0031
* 2. TERM                          0025
* 3. FEATURE                       MYFEATUR


  4. RINGING PATTERN TYPE          B
```

Figure 1 SAMPLE DRMPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 8: TERMINAL GROUP STATION RESTRICTION FORMS

SEC. 8A: 5607-1/2 RECORD
TERMINAL GROUP AND STATION RESTRICTION - TGSRFD
FEATURE DEFINITION FORM

1. GENERAL

The 5607-1 and 5607-2 Records are available with 5E2 and later Software Releases, and are used to define the Terminal Group and Station Restriction Feature Definition.

Terminal Group and Station Restriction provides a means of grouping two or more terminals to provide station screening. The screening is based on the terminal's membership in a given TG (Terminal Group) and the type of SR (Station Restriction) characteristics of the terminal.

1.1 Terminal Group

A terminal may be either a line or a trunk. A line is a Telephone Number or Multi-Line Hunt Group/Member with associated equipment number. All members of a Trunk Group must be in the same Terminal Group. Terminal Groups can be defined across Switching Modules.

1.2 Station Restriction

SR (Station Restriction) provides a means to restrict calls on the basis of the terminal's membership in a particular Terminal Group and the Station Restriction feature selected. Station Restriction is assigned on a terminal basis and can be originating or terminating.

There are four major SR components that are defined on the input form as Feature Options:

- Customer Control of feature (Activation/Deactivation)
- Originating Restriction
- Terminating Restriction
- Error Treatment (Originating/Terminating)

Each individual member in the Terminal Group (line or trunk) will be assigned Station Restrictions which are defined on the TGSRFD form.

1.3 Class of Service

Every Telephone Number assigned a TGSR Feature on the LINEFA form (5112 Record), and every MLHG/TERM assigned a TGSR Feature on the MLHLNFA form (5113 Record), must also be associated with a Class of Service of "INDIV", "PBX", "HOTPBX", "HOTMOTL", "4WINDIV", "SATSTLN", "ATND", "ISDN", or "ISATND" defined on the LCC form; for 5E8 and later, it may also be "MODEM".

Every CKT TN (Circuit Telephone Number) assigned a TGSR Feature on the LINEFA form and every Circuit MLHG/TERM assigned a TGSR Feature on the MLHLNFA form must be associated with a Class of Service of "ISDN"or "ISATND" on the LCC form.

All Telephone Numbers, Circuit Telephone Numbers, MLHG/TERM Numbers and Circuit MLHG/TERM Numbers assigned as manual lines on the LINE or MLHLN form, and also assigned a TGSR Feature on the LINEFA or MLHLNFA form, must have the TGSR Feature name defined on the TGSRFD form, and must be unrestricted originating (ORIGINATING RESTRICTION of "NONE" and DEFAULT of "NONE").

Every TRUNK/TKGRP assigned a TGSR Feature on the TRUNKFA, TKGRPFA, or CLUSTR form must have the associated TRKCLS entry on the TKGRP form (5202-1 Record) as listed below:

Trunk Class	
AUXTRNK	Auxiliary Service Trunk.
EDSL	Extended Digital Subscriber Line Trunks. This TRKCLS entry is valid only when "Y"is entered in the ACT field for SFID 60 on the SFSYS form (5713-1 Record) to activate the Secured Feature Metro Hub.
EDSLHM	EDSL Trunk for Hotel/Motel TSPS Service. This TRKCLS entry is valid only when "Y"is entered in the ACT field for SFID 60 on the SFSYS form (5713-1 Record) to activate the Secured Feature Metro Hub.
LTOLLCON	Toll Connecting.
PBXDID	PBX Direct Inward Dialing 1 Way Outgoing.
PF	Private Facility.
PFCPE	Private Facility Customer Premise Equipment.
PFLASH	Private Facility Feature Flash.
PFITT	Software Release: 5E3 and later. Private Facility Intertandem Trunk.
PRINTOLL	Primary Intertoll.
TTOLLCON	Toll Completing.

1.4 Preconstructed Features

Preconstructed Feature names are available for the Terminal Group and Station Restriction Feature Definition form. The preconstructed names listed in Figure 3 can only be reviewed through 5ODA on the TGSRFD input form, therefore Default Parameters cannot be specified. The appropriate TGSRLPA, TGSRMPA or TGSRTPA form must be entered to specify the actual Parameter values required on the preconstructed feature name.

1.5 Advanced Services Platform

Due to the nature of ASP (Advanced Services Platform, previously PVN, Private Virtual Network), originating restrictions are overridden for ASP calls so that the SCP (Service Control Point) can perform call screening functions.

1.6 Recent Change View

The corresponding Recent Change View for this form is 12.21.

2. FORM ENTRIES - 5607-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *FEATURE NAME

Description: Enter a Feature Name to define the particular version of the BRCS (Business and Residence Custom Services) Terminal Group and Station Restriction feature. The first character of all preconstructed features is always a slash (/).
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

A Terminal Group Station Restriction Feature name can be assigned to many different terminals (individual lines, MLHG Terminals and Trunks), but each terminal can be assigned only one TGSR Feature name defined on the TGSRFD form.

For 5E9(1) and later, a TGN/MEMB(s) defined on a TKGRP form with its WB RATE field entered can only have, at most, one TGSR Feature assigned.

2.3 REMARKS

Description: Describe the meaning of the feature.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The fields (Section 2.4 - Section 2.5) specify how the feature can be activated and deactivated.

2.4 ACT TYPE

Description: Enter the activation type for the feature.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
AUTO	No customer activation code is needed; the feature is always active and the Originating and Terminating Station Restrictions apply.
CODE	Customer activation by dialing an activation code.

Data Rules:

For 5E7 and later, if "AUTO"is entered for a TGN assigned a Terminal Group and Station Restriction Feature on the TRUNKFA (or CLUSTR) form then the corresponding A field entry for Initial Activation Status on the TRUNKFA (or CLUSTR) form must be "Y".

If "AUTO"is entered for MLHG/TERMS on the MLHLNFA form that are assigned a Terminal Group and Station Restriction Feature, then "Y"must be entered in the corresponding A field for the Initial Activation Status on the MLHLNFA, BFG or associated CLUSTR form.

2.5 DACT TYPE

Description: Enter the deactivation type for the feature.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
NONE	No customer deactivation code (change is prohibited).
CODE	Customer deactivation by dialing a deactivation code.
AUTO	Automatic deactivation, e.g., the customer activates Station Restriction via a dialed code for SR to be active for one call, the call in progress. When the terminal goes back on-hook, SR is automatically deactivated.

Data Rules:

When ACT TYPE is set to "AUTO", DEACT TYPE must be set to "NONE". When ACT TYPE is set to "CODE", DEACT TYPE must be set to "AUTO"or "CODE".

ORIGINATING

The fields (Section 2.6 - Section 2.8) apply to originating Station Restriction.

2.6 RESTRICTION

Description: Enter the Originating Station Restriction Option. Station Restriction applies if the customers TGSR feature is active (on).

Required Field.
Default: NONE
Valid Entries:

Valid RESTRICTION Entries

Entry	Definition
NONE	Originating Unrestricted Option. No originating restrictions on the terminal.
SEMI	Originating Semi-Restricted Option prohibits the completion of calls destined to terminate outside the originating terminal's TG. See Figure 4 for exceptions to Semi-Restricted Options.
FULL	Originating Fully Restricted Option prohibits the completion of all calls destined to terminate outside the originating terminal's TG or the attendant. See Figure 5 for exceptions to Fully Restricted Options.

2.7 DEFAULT

Description: Enter the Originating SR (Station Restriction) Default Option. This SR applies if the customer feature is deactivated (off).

Required Field.
Default: NONE
Valid Entries:

Valid DEFAULT Entries

Entry	Definition
NONE	Originating Unrestricted Option. No originating restrictions on the terminal.
SEMI	Originating Semi-Restricted Option prohibits the completion of calls destined to terminate outside the originating terminal's TG. See Figure 4 for exceptions to Semi-Restricted Options.
FULL	Originating Fully Restricted Option prohibits the completion of all calls destined to terminate outside the originating terminal's TG or the attendant. See Figure 5 for exceptions to Fully Restricted Options.

Data Rules:

Default Restriction is used only when a customer is given ACT TYPE of "CODE"so that the customer can turn the feature on or off. When the SR feature is active, then the Restriction applies. When the SR feature is deactivated, then the default applies.

2.8 ERROR TRTMT

Description: Enter the Originating Station Restriction Error Treatment Option. Error treatment is given whenever a call cannot complete because of SR failure. Station Restriction error treatment will be applied to the originating terminal for both originating and terminating restriction.

Required Field.
Default: TONE

Valid Entries:

Valid ERROR TRTMT Entries

Entry	Definition
TONE	Reorder tone is applied to the terminal to indicate SR error.
RERTE	Reroute to Telephone Number. The call is forwarded to a prearranged Telephone Number if a Station Restriction error is encountered. The individual terminals for the TG of this feature must have the FORWARD TO DN specified on either the TGSRFD or on an individual parameter form (TGSRLPA, TGSRMPA, or TGSRTPA).
ANNC	Announcement if SR error. The individual terminals for the TG of this feature must have the ERROR ANNCMT ROUTE INDEX specified on either the TGSRFD form (in a default parameter) or on an individual parameter form (TGSRLPA, TGSRMPA, or TGSRTPA).

Data Rules:

For 5E5 and later, when a TGSR feature is assigned (via a TRUNKFA/TKGRPFA form) then ORIGINATING ERROR TRTMT and TERMINATING ERROR TRTMT must be set to "TONE"when the corresponding TRKGRP form has INPULSING or OUTPULSING equal to "ISUP7"

For 5E6 and later, when a TGSR feature is assigned (via a TRUNKFA or CLUSTR form), then the TGSR feature must have the ORIGINATING ERROR TRTMT and TERMINATING ERROR TRTMT must be set to "TONE" when the corresponding TKGRP form has TRKCLS equal to "EDSL" or "EDSLHM".

TERMINATING

The fields (Section 2.9 - Section 2.11) apply to terminating Station Restriction.

2.9 RESTRICTION

Description: Enter the Terminating Station Restriction Option. Station Restriction applies if the customers TGSR feature is active (on).

Required Field.
Default: NONE
Valid Entries:

Valid RESTRICTION Entries

Entry	Definition
NONE	Terminating Unrestricted Option. No terminating restrictions on the terminal.
SEMI	Terminating Semi-Restricted Option prohibits the completion of calls originating outside the restricted terminal's TG and destined to terminate to the restricted terminal. There is one exception; the restricted terminal can receive calls from outside the TG if there is intermediate routing (see following note) and the last connection was from the attendant or another terminal in a given TG. See Figure 4 for exceptions to Semi-Restricted Options.
ASPS	Software Release: 5E8 only. Terminating Semi-Restricted, plus ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) originations. This option prohibits the completion of non-ASP calls originating outside of a restricted terminal's TG and destined to terminate to the restricted terminal. ASP calls are always allowed to terminate. There is one exception to the above rules: the restricted terminal can receive calls from outside the TG if there is intermediate routing (see the following note) and the last connection was from the attendant or another terminal in a given TG. See Figure 4 for exceptions to Semi-Restricted Options.
PVNS	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASPS". See the description under "ASPS".
FULL	Terminating Fully Restricted Option prohibits the completion of all calls originating outside the restricted terminal's TG or the attendant to terminate to the restricted terminal. See Figure 5 for exceptions to Fully Restricted Options.

ASPF	Software Release: 5E8 only. Terminating Fully Restricted, plus ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) originations. This option prohibits the completion of all non-ASP calls originating outside either the restricted terminal's TG or the attendant to terminate to the restricted terminal. ASP calls are always allowed to terminate. See Figure 5 for exceptions to Fully Restricted Options.
PVNF	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASPF". See the description under "ASPF".

NOTE: Intermediate routing is that routing which causes a route different from that originally made, i.e., Call Forwarding which creates intermediate routing on the forwarded leg of the call.

2.10 DEFAULT

Description: Enter the Terminating Station Restriction Default Option. This SR applies if the customer TGSR feature is deactivated (off).

Required Field.
Default: NONE
Valid Entries:

Valid DEFAULT Entries

Entry	Definition
NONE	Terminating Unrestricted Option. No terminating restrictions on the terminal.
SEMI	Terminating Semi-Restricted Option prohibits the completion of calls originating outside the restricted terminal's TG and destined to terminate to the restricted terminal. There is one exception, the restricted terminal can receive calls from outside the TG if there is intermediate routing (see the following Note) and the last connection was from the attendant or another terminal in a given TG. See Figure 4 for exceptions to Semi-Restricted Options.
ASPS	Software Release: 5E8 only. Terminating Semi-Restricted, plus (Advanced Services Platform; previously PVN (Private Virtual Network)) originations. This option prohibits the completion of non-ASP calls originating outside of a restricted terminal's TG and destined to terminate to the restricted terminal. ASP calls are always allowed to terminate. There is one exception to the above rules: the restricted terminal can receive calls from outside the TG if there is intermediate routing (see the following Note) and the last connection was from the attendant or another terminal in a given TG. See Figure 4 for exceptions to Semi-Restricted Options.
PVNS	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASPS". See the description under "ASPS".
FULL	Terminating Fully Restricted Option prohibits the completion of all calls originating outside the restricted terminal's TG or the attendant to terminate to the restricted terminal. See Figure 5 for exceptions to Fully Restricted Options.
ASPF	Software Release: 5E8 only. Terminating Fully Restricted, plus ASP (Advanced Services Platform; previously PVN (Private Virtual Network)) originations. This option prohibits the completion of all non-ASP calls originating outside either the restricted terminal's TG or the attendant to terminate to the restricted terminal. ASP calls are always allowed to terminate. See Figure 5 for exceptions to Fully Restricted Options.
PVNF	Software Release: 5E6 - 5E7. For 5E8 and later, this is changed to "ASPF". See the description under "ASPF".

NOTE: Intermediate routing is that routing which causes a route different from that originally made, e.g., Call Forwarding which creates intermediate routing on the forwarded leg of the call.

This Default restriction is used only when ACT TYPE is set to "CODE", DACT TYPE is "AUTO"or "CODE", and the feature has been deactivated.

2.11 ERROR TRTMT

Description: Enter the Terminating Station Restriction Error Treatment Option. Error treatment is given whenever a call cannot complete because of SR failure. Station Restriction error treatment will be applied to the originating terminal for both originating and terminating restriction.

Required Field.
Default: TONE
Valid Entries:

Valid ERROR TRTMT Entries

Entry	Definition
TONE	Reorder tone is applied to the terminal to indicate SR error.
RERTE	Reroute to Telephone Number. The call is forwarded to a prearranged Telephone Number if a Station Restriction error is encountered. The individual terminals for the TG of this feature must have the FORWARD TO DN specified on either the TGSRFD or on an individual parameter form (TGSRLPA, TGSRMPA, or TGSRTPA).
ANNC	Announcement if SR error. The individual terminals for the TG of this feature must have the ERROR ANNCMT ROUTE INDEX specified on either the TGSRFD form or on an individual parameter form (TGSRLPA, TGSRMPA, or TGSRTPA).

Data Rules:

For 5E5 and later, when a TGSR feature is assigned (via a TRUNKFA/TKGRPFA form) then ORIGINATING ERROR TRTMT and TERMINATING ERROR TRTMT must be set to "TONE"when the corresponding TRKGRP form has INPULSING or OUTPULSING equal to "ISUP7"

For 5E6 and later, when a TGSR feature is assigned (via a TRUNKFA or CLUSTR form), then the TGSR feature must have the ORIGINATING ERROR TRTMT and TERMINATING ERROR TRTMT must be set to "TONE" when the corresponding TKGRP form has TRKCLS equal to "EDSL" or "EDSLHM".

3. FORM ENTRIES - 5607-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

3.2 * FEATURE NAME

Description: Enter the Feature Name defined on the 5607-1 Record.

DEFAULT PARAMETERS

The Default Parameter values (fields Section 3.3 - Section 3.4) apply automatically to each line (Telephone Number), Multi-Line Hunt Group/Member or Trunk Group/Member that is assigned the TGSR feature. These items are all optional on the feature definition form, but their use is highly recommended to save data entry work with the assignment of individual line and trunk parameter forms.

Any line, Multi-Line Hunt line or trunk that has a Terminal Group Station Restriction feature may override the parameters assigned on this form by entering the parameters on an associated TGSRLPA, TGSRMPA or TGSRTPA form.

3.3 GROUP ID

Description: Enter the Terminal Group Identification number. The Group ID is the value which names the association of two or more terminals to provide screening and restriction criteria.

Valid Entries: 1 - 65535

Data Rules:

If a trunk is a member of a Terminal Group, then all members of the Trunk Group must be members of the same Terminal Group, with the same Group ID.

If the GROUP ID is not assigned on this form, it must be individually assigned to each line, Multi-Line Hunt line and trunk via the associated TGSRLPA, TGSRMPA, and TGSRTPA forms.

For 5E7 and earlier, when members of the same MLHG are assigned a TGSR feature on MLHNLFA, CLUSTR or BFG forms, the feature must have the same GROUP ID on this TGSRFD form or on associated TGSRMPA forms.

3.4 MOH ALW

Description: Is Music on Hold allowed?

Once a call has been placed on hold, this field indicates whether or not music is to be provided to the held party during the hold period. This field is only applicable when Secured Feature ID 64 is set to "S" on the SFSYS form (5713-1 Record).

Software Release: 5E7 and later
Required Field.
Default Values: N
Valid Entries: Y, N

Data Rules:

If MOH ALW is "Y"for a TGSR feature assigned to a TN or an MLHG/TERM on a LINEFA, MLHLNFA, CLUSTR, or BFG form, then:

- the LCC and RAX of the TN or MLHG/TERM must be defined on a corresponding LCC form with CLASS OF SERVICE of "INDIV", "ATND", "ISDN", "ISATND".
- a GROUP ID must be specified on either the BFG or corresponding TGSRFD, TGSRLPA or TGRSMPA form and have a MUSIC ON HOLD TGN and MEMB assigned on the TGATTD form.

If TGSR features assigned on the BFG form or an associated CLUSTR form have ORIGINATING/TERMINATING ERROR TRTMT set to "ANNC" on the TGSRFD form, a corresponding ORIGINATING/TERMINATING ERROR ANNCMT ROUTE INDEX entry must be made on the TGSRFD form or in the TGSR Parameters on the BFG form.

NOTE: The BFG form takes precedence over the TGSRFD form if any of the following BFG form TERMINAL GROUP Parameters are entered:

- GROUP ID
- MOH ALW
- ORIGINATING/TERMINATING FORWARD TO DN

- ORIGINATING/TERMINATING ERROR ANNCMT ROUTE INDEX.

If TGSR features assigned on the BFG form or an associated CLUSTR form have ORIGINATING/TERMINATING ERROR TRTMT set to "RERTE" on the TGSRFD form, a corresponding ORIGINATING/TERMINATING FORWARD TO DN entry must be made on the TGSRFD form or in the TGSR Parameters on the BFG form.

NOTE: The BFG form takes precedence over the TGSRFD form if any of the following BFG form TEMINAL GROUP Parameters are entered:

- GROUP ID
- MOH ALW
- ORIGINATING/TERMINATING FORWARD TO DN
- ORIGINATING/TERMINATING ERROR ANNCMT ROUTE INDEX.

FORWARD TO DN

The fields (Section 3.5 - Section 3.6) specify the telephone numbers to which calls will be rerouted when Station Restriction failure occurs.

3.5 ORIGINATING

Description: Originating Forwarded to Directory Number. The Directory Number value is related to the Feature Option field Originating Error Treatment.
Valid Entries: 1 - 32 digits (0 - 9, *, #)

Data Rules:

If Originating ERROR TREATMENT is "RERTE", then an associated Originating Forward to DN must be specified on either the TGSRFD form as a default parameter or as a value on a given line or trunk parameter form (TGSRLPA, TGSRMPA or TGSRTPA).

3.6 TERMINATING

Description: Terminating Forwarded to Directory Number. The Directory Number value is related to the Feature Option field Terminating Error Treatment.
Valid Entries: 1 - 32 digits (0 - 9, *, #)

Data Rules:

If Terminating ERROR TREATMENT is "RERTE", then an associated Terminating Forward to DN must be specified on either the TGSRFD form as a default parameter, as a value on a given line or trunk parameter form (TGSRLPA, TGSRMPA or TGSRTPA).

ERROR ANNCMT ROUTE INDEX

The fields (Section 3.7 - Section 3.8) specify the error announcement route indexes for originating and terminating.

3.7 ORIGINATING

Description: Originating Error Announcement Route Index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The Route Index value is related to the Originating Error Treatment field. If ORIGINATING ERROR TRTMT is "ANNC", then an associated ORIGINATING ERROR ANNCMT ROUTE INDEX must be specified on either the TGSRFD form as a default parameter, or on a given line or trunk parameter form (TGSRLPA, TGSRMPA or TGSRTPA).

3.8 TERMINATING

Description: Terminating Error Announcement Route Index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The Route Index value is related to the Terminating Error Treatment field. If TERMINATING ERROR TRTMT is "ANNC", then an associated TERMINATING ERROR ANNCMT ROUTE INDEX must be specified on either the TGSRFD form as a default parameter, or on a given line or trunk parameter form (TGSRFD, TGSRMPA or TGSRTPA).

3.9 DISP RESTRICT

Description: The Display Restriction field is used to indicate the restriction that displays on an ISAT's console for an incoming MBG (Multiswitch Business Group) call. The DISP RESTRICT field was added to support the CENTREX Network feature. For more information on the CENTREX Network secured features, see Division 2, Sections 4A181, 4A182, and 4A183.

Software Release: 5E9(2) and later.
Valid Entries:

Valid DISP RESTRICT Entries

Entry	Definition
TOLL	Attendant display indicates toll calls are restricted.

3.10 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the TGATTD (Terminal Group Attendant and Data) form (5611 Record), RC view (4.4); but ifthat form does not exist or is NULL

```
tgsrfd                           5ESS Switch            _
(5607-1/2)                OFFICE DATA ADMINISTRATION
            TERMINAL GROUP STATION RESTRICTION FEATURE DEFINITION


* 2. FEATURE NAME ________     3. REMARKS ________________________________

  FEATURE OPTIONS             DEFAULT PARAMETERS
  4. ACT TYPE  AUTO           12. GROUP ID ______   18. DISP RESTRICT ____
  5. DACT TYPE NONE           13. MOH ALW  N        19. CNIGI         NULL

  ORIGINATING                 FORWARD TO DN
  6. RESTRICTION NONE         14. ORIGINATING ________________________________
  7. DEFAULT     NONE         15. TERMINATING ________________________________
  8. ERROR TRTMT TONE
                              ERROR ANNCMT ROUTE INDEX
  TERMINATING                 16. ORIGINATING ____
  9. RESTRICTION NONE         17. TERMINATING ____
 10. DEFAULT     NONE
 11. ERROR TRTMT TONE
```

Figure 1 SAMPLE TGSRFD FORM   5E10 THROUGH 5E16(1) SOFTWARE RELEASE

```
tgsrfd                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5607-1/2)   TERMINAL GROUP STATION RESTRICTION FEATURE DEFINITION

*1. FEATURE NAME AAAA                                     TERMINATING
 3. REMARKS      ________________________________     9. RESTRICTION NONE
                                                     10. DEFAULT     NONE
  FEATURE OPTIONS                                    11. ERROR TRTMT TONE
 4. ACT TYPE  AUTO
 5. DACT TYPE NONE

     ORIGINATING
 6. RESTRICTION NONE
 7. DEFAULT     NONE
```

```
 8. ERROR TRTMT TONE
```

```
tgsrfd                         5ESS Switch          _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5607-1/2)    TERMINAL GROUP STATION RESTRICTION FEATURE DEFINITION

DEFAULT PARAMETERS                                     18. DISP RESTRICT ____
12. GROUP ID ______                                    19. CNIGI         NULL
13. MOH ALW  N

                  FORWARD TO DN
14. ORIGINATING ________________________________
15. TERMINATING ________________________________

ERROR ANNCMT ROUTE INDEX
16. ORIGINATING ______
17. TERMINATING ______
```

Figure 2 SAMPLE TGSRFD FORM 5E16(2) AND LATER SOFTWARE RELEASE

ESS 5607-1(01)TG-5

TERMINAL GROUP AND STATION RESTRICTION
FEATURE DEFINITION RECORD
5ESS SWITCH

DATE ___________

TGSRFD
12.21
BASE______CONT GR____

5ESS UNIT ___________________

PAGE______

FEATURE NAME	REMARKS	ACT TYPE	DCT TYPE	ORIGINATING			TERMINATING		
/TG*	WILDCARD TERM GROUP FEATURE	AUTO	NONE	NONE	NONE	TONE	NONE	NONE	TONE
/TGFFA	FULLY RESTRICTED ORIG & TERM ANN	AUTO	NONE	FULL	NONE	ANNC	FULL	NONE	ANNC
/TGFFDN	FULL ORIG & TERM ROUTE TO TN	AUTO	NONE	FULL	NONE	RERTE	FULL	NONE	RERTE
/TGFFT	FULL RESTRICT ORIG & TERM TONE	AUTO	NONE	FULL	NONE	TONE	FULL	NONE	TONE
/TGFSA	FULLY ORIG, SEMI TERM ANN	AUTO	NONE	FULL	NONE	ANNC	SEMI	NONE	ANNC
/TGFSDN	FULLY ORIG, SEMI TERM ROUTE TN	AUTO	NONE	FULL	NONE	RERTE	SEMI	NONE	RERTE
/TGFST	FULLY ORIG, SEMI TERM TONE	AUTO	NONE	FULL	NONE	TONE	SEMI	NONE	TONE
/TGFUA	FULLY RESTRICTED ORIGINATING ANN	AUTO	NONE	FULL	NONE	ANNC	NONE	NONE	ANNC
/TGFUDN	FULLY RESTRICTED ORIG ROUTE TN	AUTO	NONE	FULL	NONE	RERTE	NONE	NONE	RERTE
/TGFUT	FULLY RESTRICTED ORIG. TONE	AUTO	NONE	FULL	NONE	TONE	NONE	NONE	TONE
/TGSFA	SEMI ORIG, FULLY TERM ANN	AUT	NON	SEM	NON	ANN	FUL	NON	ANN

		O	E	I	E	C	L	E	C
/TGSFDN	SEMI ORIG, FULLY TERM ROUTE TN	AUTO	NONE	SEMI	NONE	RERTE	FULL	NONE	RERTE
/TGSFT	SEMI ORIG, FULLY TERM TONE	AUTO	NONE	SEMI	NONE	TONE	FULL	NONE	TONE
/TGSSA	SEMI-RESTRICTED ORIG & TERM ANN	AUTO	NONE	SEMI	NONE	ANNC	SEMI	NONE	ANNC
/TGSSDN	SEMI-ORIG & TERM ROUTE TO TN	AUTO	NONE	SEMI	NONE	RERTE	SEMI	NONE	RERTE
/TGSST	SEMI-RESTRICT ORIG. & TERM TONE	AUTO	NONE	SEMI	NONE	TONE	SEMI	NONE	TONE
/TGSUA	SEMI-RESTRICTED ORIGINATING ANN	AUTO	NONE	SEMI	NONE	ANNC	NONE	NONE	ANNC
/TGSUDN	SEMI-RESTRICTED ORIG ROUTE TN	AUTO	NONE	SEMI	NONE	RERTE	NONE	NONE	RERTE
/TGSUT	SEMI-RESTRICTED ORIG. TONE	AUTO	NONE	SEMI	NONE	TONE	NONE	NONE	TONE
/TGUFA	FULLY RESTRICTED TERMINATING ANN	AUTO	NONE	NONE	NONE	ANNC	FULL	NONE	ANNC
/TGUFDN	FULLY RESTRICTED TERM ROUTE TN	AUTO	NONE	NONE	NONE	RERTE	FULL	NONE	RERTE
/TGUFT	FULLY RESTRICTED TERM TONE	AUTO	NONE	NONE	NONE	TONE	FULL	NONE	TONE
/TGUSA	SEMI-RESTRICTED TERMINATING ANN	AUTO	NONE	NONE	NONE	ANNC	SEMI	NONE	ANNC
/TGUSDN	SEMI-RESTRICTED TERM ROUTE TN	AUTO	NONE	NONE	NONE	RERTE	SEMI	NONE	RERTE
/TGUST	SEMI-RESTRICTED TERM TONE	AUTO	NONE	NONE	NONE	TONE	SEMI	NONE	TONE
/TGUUA	ALLOW ORIG, ALLOW TERM ANN	AUTO	NONE	NONE	NONE	ANNC	NONE	NONE	ANNC
/TGUUDN	ALLOW ORIG, ALLOW TERM ROUTE TN	AUTO	NONE	NONE	NONE	RERTE	NONE	NONE	RERTE
/TGUUT	ALLOW ORIGINATE, ALLOW TERMINATE	AUTO	NONE	NONE	NONE	TONE	NONE	NONE	TONE

Figure 3 PRECONSTRUCTED TGSR FEATURES

Feature	Semi-Restricted Originating	Semi-Restricted Terminating
CF	Can forward call to attendant or another TG member independent of whether call is from inside or outside TG	Can receive call forwarded by attendant or another TG member independent of whether call is from inside or outside TG
3W/6W (Multiway)	3W/6W calls involving non TG members allowed	Can be added onto 3W/6W by attendant or another TG member regardless if other conferees are not in TG
Transfer	Attendant or another TG member can transfer call from semi-restricted terminal to outside TG	Call from outside TG may be transferred by attendant or another TG member to semi-restricted terminal
PU	Pick up of call from outside TG allowed	Does not apply
Hunting	Does not apply	Calls from outside TG allowed

Figure 4 SEMI-STATION RESTRICTION OPTION INTERACTIONS

Feature	Fully Restricted Originating	Fully Restricted Terminating
CF	Calls forwarded to attendant or outside TG are blocked	Calls forwarded from attendant or outside TG are blocked
3W/6W (Multiway)	No 3W/6W with non-TG member or attendant	No 3W/6W with non-TG member or attendant

Transfer	No transfer to non-TG member or attendant	Calls from outside TG cannot be transferred to fully restricted terminal by attendant or another member
PU	Pick up calls from within the TG only (but not attendant)	Does not apply
Hunting	Does not apply	Calls from outside TG blocked. Hunting ceases.

Figure 5 FULLY STATION RESTRICTION OPTION INTERACTIONS

SEC. 8B: 5607-3 RECORD
TERMINAL GROUP AND STATION RESTRICTION LINE (TN) PARAMETER FORM - TGSRLPA

1. GENERAL

The 5607-3 Record is available with 5E2 and later Software Releases, and is used to define a Terminal Group and Station Restriction Line Parameter.

The Line Parameter form is associated with the Terminal Group and Station Restriction Feature Definition form and is keyed by the TN (Telephone Number). Individual TNs assigned a particular TGSR Feature name can be given new specific values for Terminal Group ID, Forwarded to DNs (Originating or Terminating) and Error Announcement Route Indexes (Originating or Terminating) that will replace or overwrite the Default Parameter values that are defined on the TGSR feature Definition form.

There are certain Feature Options that require either a value on a TGSR Feature Definition Default Parameter field or the presence of the associated Line Parameter field.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.29.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * TN

Description: Enter a customer 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:

The TN must be assigned on an associated Line Feature Assignment form, LINEFA (5112 Record).

The associated Class of Service on the LCC form (5306 Record) must be one of the following:

Class of Service	
ATND	50B Non-Data Link Console Line or Attendant Line.
HOTMOTL	Special Termination at Motel Equipment.
HOTPBX	Special Termination to a Motel.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
SATSTLN	Stand-Alone Test Line.
4WINDIV	Software Release: 5E3 and later.

	4-Wire Individual Line or 4-Wire Manual PBX.

For 5E12 and later, TN/FEATURE combinations on different TGSRLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the TGSRLPA 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 * FEATURE

Description: Enter the unique Feature name for the TGSR feature defined on the TGSRFD form.
Valid Entries: 1 - 8 characters

2.4 GROUP ID

Description: Enter the Group Identification number.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

If the GROUP ID is not assigned on the associated TGSRFD form (5607-1/2 Record), it must be entered on this form.

2.5 MOH ALW

Description: Is Music on Hold allowed?

Once a call has been placed on hold, this field indicates whether or not music is to be provided to the held party during the hold period. This field is only applicable when Secured Feature ID 64 is set to "S" ("Y" for 5E9(1) and later) on the SFSYS form (5713-1 Record).

Software Release: 5E7 and later
Required Field.
Default Values: N
Valid Entries: Y, N

Data Rules:

If MOH ALW is "Y" for a TGSR feature assigned to a TN or an MLHG/TERM on a LINEFA, MLHLNFA, CLUSTR, or BFG form, then:

- the LCC and RAX of the TN or MLHG/TERM must be defined on a corresponding LCC form with CLASS OF SERVICE of "INDIV", "ATND", "ISDN", "ISATND".
- a GROUP ID must be specified on either the BFG or corresponding TGSRFD, TGSRLPA or TGRSMPA form and have a MUSIC ON HOLD TGN and MEMB assigned on the TGATTD form.

FORWARD TO DN

The fields (Section 2.6 - Section 2.7) specify the telephone numbers to which calls will be rerouted when

Station Restriction failure occurs.

2.6 ORIGINATING

Description: Enter the ORIGINATING FORWARD TO DN, Directory Number. An entry corresponds to the associated ORIGINATING ERROR TRTMT field equal to "RERTE" (reroute to DN) on the TGSRFD form.
Valid Entries: 1 - 32 characters (0 - 9, *, or #)

2.7 TERMINATING

Description: Enter the TERMINATING FORWARD TO DN, Directory Number. An entry corresponds to the associated TERMINATING ERROR TRTMT field equal to "RERTE" (reroute to DN) on the TGSRFD form.
Valid Entries: 1 - 32 characters (0 - 9, *, or #)

ERROR ANNCMT ROUTE INDEX

The fields (Section 2.8 - Section 2.9) specify the error announcement route indexes for originating and terminating.

2.8 ORIGINATING

Description: Enter the ORIGINATING ERROR ANNCMT ROUTE INDEX. An entry corresponds to the associated ORIGINATING ERROR TRTMT field equal to "ANNC" (route to special announcement) on the TGSRFD form.
Valid Entries:
    For 5E10 and earlier: 1 - 3617
    For 5E11 and 5E12: 1 - 4095
    For 5E13 and later: 1 - 16382

Data Rules:

If the ORIGINATING ERROR TRTMT field on the TGSRFD form is "TONE", then the associated ORIGINATING fields for both FORWARD TO DN and ERROR ANNCMT ROUTE INDEX must be blank.

If the ORIGINATING ERROR TRTMT field on the TGSRFD form is "ANNC", then the associated ORIGINATING field for ERROR ANNCMT ROUTE INDEX must be specified. For any other Originating Error Treatment, this field must be blank.

2.9 TERMINATING

Description: Enter the TERMINATING ERROR ANNCMT ROUTE INDEX. An entry corresponds to the associated TERMINATING ERROR TRTMT field equal to "ANNC" (route to special announcement) on the TGSRFD form.
Valid Entries:
    For 5E10 and earlier: 1 - 3617
    For 5E11 and 5E12: 1 - 4095

    For 5E13 and later: 1 - 16382

Data Rules:

If the TERMINATING ERROR TRTMT field on the TGSRFD form is "TONE", then the associated TERMINATING fields for both FORWARD TO DN and ERROR ANNCMT ROUTE INDEX must be blank.

If the TERMINATING ERROR TRTMT field on the TGSRFD form is "ANNC", then the associated TERMINATING field for ERROR ANNCMT ROUTE INDEX must be specified. For any other Terminating Error Treatment, this field must be blank.

2.10 DISP RESTRICT

Description: The Display Restriction field is used to indicate the restriction that displays on an ISAT's console for an incoming MBG (Multiswitch Business Group) call. The DISP RESTRICT field was added to support the CENTREX Network feature. For more information on the CENTREX Network secured features, see Division 2, Sections 4A181, 4A182, and 4A183.

Software Release: 5E9(2) and later.
Valid Entries:

Valid DISP RESTRICT Entries

Entry	Definition
TOLL	Attendant display indicates toll calls are restricted.

2.11 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the TGATTD (Terminal Group Attendant and Data) form (5611 Record), RC view (4.4); but if that form does not exist or is NULL consult OFCOPT.

```
tgsrlpa                    5ESS Switch          _
                    OFFICE DATA ADMINISTRATION
(5607-3)    TERMINAL GROUP STATION RESTRICTION LINE (TN) PARAMETERS

*1. TN        __________                         9. DISP RESTRICT ____
*2. FEATURE   ________                          10. CNIGI         NULL
#3. GROUP ID _____
 4. MOH ALW   N

                  FORWARD TO DN
 5. ORIGINATING ________________________________
 6. TERMINATING ________________________________

ERROR ANNCMT ROUTE INDEX
```

```
 7. ORIGINATING ____
 8. TERMINATING ____
```

Figure 1 SAMPLE TGSRLPA FORM 5E12 THROUGH 5E16(1) SOFTWARE RELEASES

```
tgsrlpa                           5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5607-3)    TERMINAL GROUP STATION RESTRICTION LINE (TN) PARAMETERS

*1. TN        __________                           9. DISP RESTRICT ____
*2. FEATURE   ________                            10. CNIGI         NULL
#3. GROUP ID _____
 4. MOH ALW  N

                  FORWARD TO DN
 5. ORIGINATING ________________________________
 6. TERMINATING ________________________________

ERROR ANNCMT ROUTE INDEX
 7. ORIGINATING _____
 8. TERMINATING _____
```

Figure 2 SAMPLE TGSRLPA FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 8C: 5607-4 RECORD
TERMINAL GROUP AND STATION RESTRICTION LINE (MLHG/TERM) PARAMETER FORM - TGSRMPA

1. GENERAL

The 5607-3 Record is available with 5E2 and later Software Releases. It is used to define Terminal Group and Station Restriction parameters for an MLHG MEMB (Multi-Line Hunt Group Member).

The MLHG/TERM Form is associated with the Terminal Group and Station Restriction Feature Definition Form and is keyed by MLHG/TERM. Individual MLHG/TERMS assigned a TGSR Feature name can be given new specific values for Terminal Group ID, Forward to DNs (originating or terminating) that will replace or overwrite the Default Parameter values that are defined on the TGSR Feature Definition Form.

There are certain Feature Options that require either a value on a TGSR Feature Definition Default Parameter field or the presence of the associated MLHG/TERM Parameter field.

The MLHG/TERM Form is used to distinguish customer lines that have Station Restrictions different from those defined on the TGSRFD Form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.29.

2. FORM AND RECORD ENTRIES

2.1 BASE CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * MLHG

Description: Enter a Multi-Line Hunt Group Number.
Valid Entries:
- For 5E14 and earlier: 1 - 2000
- For 5E15 and later: 1 - 8191

Data Rules:

The MLHG value must be assigned on the Multi-Line Hunt and Member Feature Assignment Form, MLHLNFA (5113 Record).

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Terminal (member) Number.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The terminal value must be assigned on a Multi-Line Hunt and Member Feature Assignment Form, MLHLNFA.

The associated Class of Service on the LCC form (5306 Record) must be one of the following:

Class of Service	
ATND	50B Non-Data Link Console Line or Attendant Line.
HOTMOTL	Special Termination at Motel Equipment.
HOTPBX	Special Termination to a Motel.
INDIV	Individual Line.
ISDN	Software Release: 5E4 and later. Integrated Services Digital Network (ISDN) digital subscriber lines.
ISATND	Software Release: 5E4 and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
SATSTLN	Stand-Alone Test Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.

2.4 *FEATURE

Description: Enter the feature name for the specific TSGR feature, defined on the TGSRFD Form.
Valid Entries: 1 - 8 characters

2.5 GROUP ID

Description: Enter the Terminal Group Identification number.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

If the GROUP ID is not assigned on the associated TGSRFD form (5607-1/2 Record), it must be entered on this form.

2.6 MOH ALW

Description: Is Music on Hold allowed?

Once a call has been placed on hold, this field indicates whether or not music is to be provided to the held party during the hold period. This field is only applicable when Secured Feature ID 64 is set to "S" ("Y" for 5E9(1) and later) on the SFSYS form (5713-1 Record).

Software Release: 5E7 and later
Required Field.
Default Values: N
Valid Entries: Y, N

Data Rules:

If MOH ALW is "Y" for a TGSR feature assigned to a TN or an MLHG/TERM on a LINEFA, MLHLNFA, CLUSTR, or BFG form, then:

- the LCC and RAX of the TN or MLHG/TERM must be defined on a corresponding LCC form with CLASS OF SERVICE of "INDIV", "ATND", "ISDN", "ISATND".
- a GROUP ID must be specified on either the BFG or corresponding TGSRFD, TGSRLPA or TGRSMPA form and have a MUSIC ON HOLD TGN and MEMB assigned on the TGATTD form.

FORWARD TO DN

The fields (Section 2.7 - Section 2.8) specify the telephone numbers to which calls will be rerouted when Station Restriction failure occurs.

2.7 ORIGINATING

Description: Enter the Originating Forward to DN (Directory Number). Note that an entry corresponds to the associated Originating Error Treatment field equal to "RERTE" on the TGSRFD Form, reroute to DN.
Valid Entries: 1 - 32 digits (0 - 9, *, or #)

2.8 TERMINATING

Description: Enter the Terminating Forward to DN (Directory Number). Note that an entry corresponds to the associated Terminating Error Treatment field equal to "RERTE" on the TGSRFD Form, reroute to DN.
Valid Entries: 1 - 32 digits (0 - 9, *, or #)

ERROR ANNCMT ROUTE INDEX

The fields (Section 2.9 - Section 2.10) specify the error announcement route indexes for originating and terminating.

2.9 ORIGINATING

Description: Enter the Originating Error Announcement Index. Note that an entry corresponds to the associated Originating Error Treatment field equal to "ANNC" on the TGSRFD Form, for route to special announcement.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

2.10 TERMINATING

Description: Enter the Terminating Error Announcement Route Index. Note that an entry corresponds to the associated Terminating Error Treatment field equal to "ANNC" on the TGSRFD Form, for route to special announcement.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095

For 5E13 and later: 1 - 16382

Data Rules:

If the Originating or Terminating Error Treatment field on the TGSRFD Form equals "TONE", then the associated Originating/Terminating fields for both FORWARD TO DN and ERROR ANNCMT ROUTE INDEX must be blank.

2.11 DISP RESTRICT

Description: The Display Restriction field is used to indicate the restriction that displays on an ISAT's console for an incoming MBG (Multiswitch Business Group) call. The DISP RESTRICT field was added to support the CENTREX Network feature. For more information on the CENTREX Network secured features, see Division 2, Sections 4A181, 4A182, and 4A183.

Software Release: 5E9(2) and later.
Valid Entries:

Valid DISP RESTRICT Entries

Entry	Definition
TOLL	Attendant display indicates toll calls are restricted.

2.12 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the TGATTD (Terminal Group Attendant and Data) form (5611 Record), RC view (4.4); but if that form does not exist or is NULL consult OFCOPT.

```
tgsrmpa                           5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5607-4)TERMINAL GROUP STATION RESTRICTION LINE (MLHG/TERM) PARAMETERS

*1. MLHG     ____                                    ERROR ANNCMT ROUTE INDEX
*2. TERM     ____                                    8. ORIGINATING _____
*3. FEATURE  ________                                9. TERMINATING _____
#4. GROUP ID _____
 5. MOH ALW  N                                      10. DISP RESTRICT _____
                                                    11. CNIGI         NULL
                  FORWARD TO DN
 6. ORIGINATING ________________________________
 7. TERMINATING ________________________________
```

Figure 1 SAMPLE TGSRMPA FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 8D: 5607-5 RECORD
TERMINAL GROUP AND STATION RESTRICTION
TRUNK PARAMETER FORM - TGSRTPA

1. GENERAL

The 5607-5 Record is available with 5E2 and later Software Releases, and is used to define Terminal Group and Station Restriction Trunk Parameter.

The TGN/MEMB NO Form is associated with the Terminal Group and Station Restriction Feature Definition Form and is keyed by TGN/MEMB. Individual TGN/MEMBs assigned a particular TGSR feature name can be given new specific values for Terminal Group ID, Forward to Directory Numbers (Originating or Terminating) that will replace or overwrite the Default Parameter values that are defined on the TGSR Feature Definition Form.

There are certain Feature Options that require a value on a TGSR Feature Definition Default Parameter field or the presence of the associated Trunk Parameter field.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.29.

2. BASE AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * TGN

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

Data Rules:

The TGN value must be assigned on a Trunk Feature Assignment Form, TRUNKFA (5205 Record) or on the TKGRPFA form (5206 Record).

The associated TRKCLS entry on the TKGRP form (5202-1 Record) must be one of the following:

Trunk Class	
AUXTRNK	Auxiliary Service Trunk.
EDSL	Extended Digital Subscriber Line Trunks. This TRKCLS is not valid unless Secured Feature ID 60 is activated.
EDSLHM	EDSL Trunk for Hotel/Motel TSPS Service. This TRKCLS is not valid unless Secured Feature ID 60 is activated.
LTOLLCON	Toll Connecting.
PBXDID	PBX Direct Inward Dialing 1 Way Outgoing.
PF	Private Facility.
PFCPE	Private Facility Customer Premise Equipment.
PFLASH	Private Facility Feature Flash.
PFITT	Software Release: 5E3 and later.

	Private Facility Intertandem Trunk.
PRINTOLL	Primary Intertoll.
TTOLLCON	Toll Completing.

2.3 * MEMB

Description: Enter the TG (Trunk Group) Member Number.
Valid Entries:
For 5E2: 0 - 1983
For 5E3 and later: 0 - 1951

Data Rules:

The TG Member Number value must be assigned on a Trunk Feature Assignment Form (TRUNKFA).

2.4 * FEATURE

Description: Enter the feature name for the specific TGSR feature, defined on the TGSR Form.
Valid Entries: 1 - 8 characters

2.5 GROUP ID

Description: Enter the Terminal Group Identification number.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

If the GROUP ID is not assigned on the associated TGSRFD form (5607-1/2 Record), it must be entered on this form.

FORWARD TO DN

The fields (Section 2.6 - Section 2.7) specify the telephone numbers to which calls will be rerouted when Station Restriction failure occurs.

2.6 ORIGINATING

Description: Enter the Originating Forward to DN (Directory Number). Note that an entry corresponds to the associated Originating Error Treatment field equal to "RERTE" on the TGSRFD Form, reroute to DN.
Valid Entries: 1 - 32 digits (0 - 9, *, or #)

2.7 TERMINATING

Description: Enter the Terminating Forward to DN (Directory Number). Note that an entry corresponds to the associated Terminating Error Treatment field equal to "RERTE" on the TGSRFD Form, reroute to DN.
Valid Entries: 1 - 32 digits (0 - 9, *, or #)

ERROR ANNCMT ROUTE INDEX

The fields (Section 2.8 - Section 2.9) specify the error announcement route indexes for originating and terminating.

2.8 ORIGINATING

Description: Enter the Originating Announcement Route Index. Note that an entry corresponds to the associated Originating Error Treatment field equal to "ANNC" on the TGSRFD Form, for route to special announcement.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

2.9 TERMINATING

Description: Enter the Terminating Error Announcement Route Index. Note that an entry corresponds to the associated Terminating Error Treatment field equal to "ANNC" on the TGSRFD Form, for route to special announcement.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

Data Rules:

If the Originating or Terminating Error Treatment field on the TGSRFD Form equal to "TONE", then the associated Originating/ Terminating fields for both FORWARD TO DN and ERROR ANNCMT ROUTE INDEX must be blank.

2.10 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the TGATTD (Terminal Group Attendant and Data) form (5611 Record), RC view (4.4); but if that form does not exist or is NULL consult OFCOPT.

```
tgsrtpa                          5ESS Switch          _
(5607-5)                   OFFICE DATA ADMINISTRATION
                TERMINAL GROUP STATION RESTRICTION TRUNK PARAMETERS

                                  ERROR ANNCMT INDEX
  *1. TGN        ____          7. ORIGINATING ____
```

```
 *2. MEMB         _____          8. TERMINATING _____
 *3. FEATURE    _________
  4. GROUP ID   ______           9. CNIGI NULL

  FORWARD TO DN
  5. ORIGINATING ________________________________

  6. TERMINATING ________________________________
```

Figure 1 SAMPLE TGSRTPA FORM 5E10 AND LATER SOFTWARE RELEASES

SEC. 9: AUTOMATIC ROUTE SELECTION FORMS

SEC. 9A: 5608-1A/B RECORDS
AUTOMATIC ROUTE SELECTION FEATURE DEFINITION FORM - ARSFD

1. GENERAL

The 5608-1 Record is available with 5E2 and later Software Releases. It is used to define various combinations of options associated with ARS (Automatic Route Selection), a BRCS feature. With 5E3 and later Software Releases, this record has been expanded into two records, the 5608-1A and 5608-1B, to accommodate additional options and default parameters.

1.1 ARS Features

Each combination is given a feature name of from one to eight characters which is used to assign the constructed (switch owner defined) feature to lines or trunks. Certain ARS features are pre-defined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. Lists of preconstructed features appear in Figure 1 and Figure 2 .

1.2 ARS Capability

The ARS capability is used to route calls based on prespecified choices of facilities such as Tie, FX, OUTWATS or DDD for the 5ESS Switch customer. ARS uses the dialed number to route a call over the first available facility in the customer's prespecified list. The customer can have up to six groups of route patterns and may be allowed to change which group is active manually from a control line or by utilizing the Time Of Day BRCS feature. ARS allows customers to restrict the use of facilities based on an FRL (Facility Restriction Level) associated with each terminal (line or trunk) accessing the ARS capability. The customer can optionally specify which facilities in each route pattern are considered expensive so that any terminal accessing that facility via ARS would receive an Expensive Route Warning Tone.

To use the ARS capability, a terminal must be assigned an ARS feature on the appropriate feature assignment form (e.g., LINEFA form (5112 Record), TKGRPFA form (5206 Record) etc.) and must belong to an ARS group. The ARS Group Name is assigned either as a default parameter defined with an ARS constructed feature on the ARSFD form or on an ARSLPA (5608-3 Record), ARSMPA (5608-4 Record) or ARSTPA (5608-5 Record) form. For 5E2, the ARS group information, defined on the ARSGPA form, is used to indicate the preferred (or initial) route to use for each pattern group based on dialed digits. For 5E3 and later, the preferred route based on dialed digits is defined on the ARSSCRN form (5608-6 Record). For all Software Releases, the ARSGPA form (5608-2 Record) is used to define parameters for the ARS Group.

ARS is normally considered an originating feature in that it is a feature assigned to a terminal so that, when the terminal originates, it may access unique digit analysis and/or unique ARS routing. There exist two cases where the terminal that is being terminated to by Automatic Route Selection routing requires an ARS feature and associated parameters to be assigned. These cases are when the Trunk Group selected requires an outgoing Traveling Class Mark (see the default parameter, TCMOUT on this form) or requires Segmented Signaling (see the ARSSIG form (5608-9 Record)). In both cases, even if the Trunk Group is one-way outgoing, the trunks will require an ARS feature.

1.3 Valid Service Classes

Valid service classes for terminals assigned an ARS feature are as follows. For Software Release availability, see the LCC form (5306 Record) for lines or the TKGRP form (5202-1 Record) for trunks.

Valid CLASS OF SERVICES	
Lines	**Trunks**
INDIV	PF
ATND	PFLASH
PBX	PFITT
4WINDIV	EDSL
ISDN	EDSLHM
ISATND	
MODEM	

1.4 ARS Access

Access to the ARS capability may be automatic (usually for a PBX) or via an Access Code defined in digit analysis as an "ARSUSE" action. Two additional actions associated with ARS Access Codes in 5E3 and later are "ARS1USE" and "ARS2USE", used respectively to indicate that digit analysis should be done in Private Network Dialing Plans 1 and 2. See the PNDP form (5608-10/11 Records). The access type is defined on the ARSFD form under ENTRY.

1.5 Supplementary Services for ISDN CSD

The BRCS Supplementary Services for ISDN CSD (Circuit-Switched Data) calls feature, which is available in 5E6 and later, allows the ARS service originally developed for CSV (Circuit-Switched Voice) calls to apply to CSD calls as well. Use of this feature provides the means to establish CSD calls between BRIs (Basic Rate Interfaces) or PRIs (Primary Rate Interfaces) that are making use of the ARS service. When a line or trunk is assigned ARS service, it may apply to both CSV and CSD calls for that BRI or PRI.

Since ARS groups for CSD and CSV calls are separate, all group options available to a CSV ARS user are also available to a CSD ARS user. The values of these options, which are entered on the ARSGPA form (5608-2 Record) can differ or be the same for each group. Allowing group names to be different prevents ARS CSD GROUPS from being restricted to just duplicating ARS CSV GROUPs.

CSD ARS GROUP may also be assigned through BFGs (BRCS Feature Groups) in the same manner CSV ARS groups are currently assigned.

CSD calls use the same UNP (Uniform Numbering Plan) as CSV calls, that is, even with the existence of both CSD and CSV ARS groups, the UNP for CSV calls will be the only UNP that is used.

Queuing is not supported for CSD ARS calls. Also, different ARS action codes must be used for CSD as follows:

- DARSCP, Change the active pattern group
- DGPACT, Activate the ARS CSD group
- DGPDCT, Deactivate the ARS CSD group
- FRLDMAIN, Activate the CSD Main FRL
- DFRLALT, Activate the CSD Alternate FRL

Existing preconstructed features for CSV calls will also be used for CSD calls (no new preconstructed ARS features). ARS features for both groups will be constructed the same way using the options on this ARSFD form, ARSGPA (5608-2 Record) and/or ARSLPA form (5608-3 Record), ARSMPA form (5608-4 Record) and ARSTPA form (5608-5 Record). For more information concerning the assignment of BRCS features, see Division 2, Section 1F.

1.6 Recent Change View

The corresponding Recent Change View for this form is 12.11.

2. FORM ENTRIES - 5608-1A RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: This field is used to enter the ARS Feature Name. Feature Names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed or inserted.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: This field is used for a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.14) comprise the available Feature Options.

2.4 DACT TYPE

Description: This field is used to indicate whether or not the feature can be deactivated by the subscriber for one call.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
NONE	The subscriber is not permitted deactivation.
CODE	The subscriber is permitted to deactivate the feature by dialing a code.

Data Rules:

When "CODE" is entered, the ENTRY field is usually equal to "AUTO". The code dialed to deactivate the feature must be defined in the subscriber's IDP (Individualized Dialing Plan) Dialed Code Assignment, (5601-1 Record) (if a member of an IDP Group) as Action equal to "ARSDCT". If not a member of an IDP group, the code must be defined with this action in the PDIT form (5300-2 Record).

2.5 GROUP ACT TYPE

Description: This field is used to indicate whether the ARS Group can be activated by the subscriber.
Default: AUTO

Valid Entries:

Valid GROUP ACT TYPE Entries

Entry	Definition
AUTO	Permission is denied.
CODE	The ARS Group can be activated by dialing a code.

Data Rules:

The default and only value is "AUTO", except for ARS features derived from the preconstructed features using the ODA change-insert mode of the review operation.

To use "CODE", the code to be dialed to activate the ARS Group must be defined in the IDPDCA (5601-1 Record) or the PDIT (5300-2 Record), as action equal to "GPACT". The record used is dependent on whether the customer uses an IDP or the ODP (Office Dialing Plan).

2.6 GROUP DACT TYPE

Description: This field is used to indicate whether the ARS Group can be deactivated by the subscriber.

If the ARS Group has been deactivated via a code and a member of the ARS Group dials a call, that call will be routed based on the ODP as if this was a POTS call. If the entry to the ARS capability is via an ARS Access Code, that code will not be analyzed in the ODP but all subsequent digits will be analyzed.
Default: NONE
Valid Entries:

Valid GROUP DACT TYPE Entries

Entry	Definition
NONE	**Permission denied.**
CODE	**The ARS Group can be deactivated by dialing a code.**

Data Rules:

If GROUP ACT TYPE is "AUTO", GROUP DACT TYPE must be "NONE". If GROUP ACT TYPE is "CODE", GROUP DACT must be "CODE".

To use "CODE", the code to be dialed to deactivate the ARS Group must be defined in the IDPDCA or the PDIT as action equal to "GPDCT" depending on whether or not the customer is a member of an IDP Group.

2.7 ENTRY

Description: This field is used to indicate the customer's ability to access the ARS capability.

Required Field.
Default: CODE
Valid Entries:

Valid ENTRY Entries

Entry	Definition
CODE	ARS routing is used when the customer dials a code.
AUTO	ARS routing is always used.

Data Rules:

When "CODE" is entered, a code must be defined in the IDPDCA or PDIT with ACTION equal to "ARSUSE" depending on whether or not the customer is a member of an IDP Group. Two additional actions associated with ARS Access Codes in 5E3 and later, are "ARS1USE" and "ARS2USE", used respectively to indicate that digit analysis should be done in Private Network Dialing Plan 1 and 2. See the PNDP (5608-10/11 Records) form. Both of these actions may be used in either the IDPDCA or PDIT.

2.8 BAD NUMBER TREATMENT

Description: This field is used to enter the error treatment to be used for inappropriate ARS dialed numbers when the Office Dialing Plan is used to interpret ARS digits.

For 5E2, the ODP is always used. For 5E3 and later, the ODP is used only when the action associated with Code entry ARS is "ARSUSE" or when ODP is specified for Auto entry ARS as a parameter. However, when a PNDP is used, this entry will not be used.

When an ARS number is dialed, the ODP that the originator is assigned to is analyzed to determine a pointer via the POTS Route Index to the appropriate route list. (See the ARSGPA form 5608-2 Record for additional information.) If the POTS Route Index is not defined for the ARS Group on the ARSGPA, then the number dialed is determined to be inappropriate for this group.

The software associated with ARS may also determine that a number is inappropriate if the ODP is used. When the ODP digit analysis tables are read, the Call Type is checked. If the Call Type is "EMER", ARS is ignored and the call is completed as if ARS routing had not been invoked. If the Call Type is "NORMAL", ARS continues processing. If the Call Type is not "EMER" or "NORMAL", the call is considered inappropriate and call termination depends on this entry.

Required Field.

Software Release: 5E3 and later
Default: POTS
Valid Entries:

Valid BAD NUMBER TREATMENT Entries

Entry	Definition
REORD	Route to reorder tone.
ANN	Route to an announcement.
ATT	Used for 5E2 only. Route to the attendant of this customer's Terminal Group
ATDN	Used for 5E3 and later. Route to the attendant of this customer's Terminal Group.
POTS	The dialed digits (not including an ARS Access Code,if dialed) are interpreted in the Office Dialing Plan and the call is treated like a POTS origination.

Data Rules:

If "ANN" is entered, a Route Index that points to an announcement Trunk Group must be entered on the ARSGPA (5608-2 Record) form in the field BAD NUMBER ANNOUNCEMENT.

If "ATT" or "ATDN" is entered, the customer must be assigned to a Terminal Group (see the Terminal Group/Station Restriction BRCS capability) and the Terminal Group must have an Attendant Telephone Number defined on the TGATTD (5611 Record) form.

2.9 FRL TYPE

Description: This field is used to indicate the type of Facility Restriction Level used with this ARS feature.

Required Field.
Default: FIX

Valid Entries:

Valid FRL TYPE Entries

Entry	Definition
FIX	Indicates that the FRL value for all customers with this feature is fixed at 16. (This is the maximum value and thus indicates no blocking will be done based on FRL.)
VAR	Indicates that the FRL permission is defined on a per terminal basis with values of 1 - 16.

2.10 CHANGE ACTIVE PATTERN GROUP

Description: Can the active Pattern Group Number be changed via the TOD (Time of Day) BRCS feature?

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

2.11 CHANGE WARNING TONE

Description: Is the customer permitted to change the warning tone parameter defined for the terminal which is assigned the ARS feature by dialing a code?
Valid Entries: Y, N

NOTE: For 5E2 and later the default and only value is N, except for ARS features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.12 CHANGE ALT FRL

Description: Is the customer permitted to activate and deactivate an Alternate FRL (Facility Restriction Level) table by dialing a code?

The code dialed to deactivate the Alternate FRL table (and therefore activate the Main FRLs) must be defined in the IDPDCA or PDIT with an ACTION equal to "FRLMAIN". For additional information on the Alternate FRL table, see the ARSFRL form (5608-7 Record).

Required Field.

Software Release: 5E3 and later
Default: N
Valid Entries: Y, N

Data Rules:

When this entry equals "Y", the code dialed to activate the Alternate FRL table must be defined in the customer's IDPDCA form (5601-1 Record) (if a member of an IDP Group) with an ACTION equal to "FRLALT". If not a member of an IDP Group, the code must be defined with this ACTION in PDIT (5300-2 Record).

2.13 TCM OPTION

Description: Do any of the private Trunk Groups associated with the ARS Group use TCM (Traveling Class Marks)?

TCMs provide the means to pass FRL information between private network nodes. The TCM is a one or two-digit number appended to the called number digit string. TCMs may be received on trunks incoming to this office or outpulsed on trunks outgoing to the next node. See the default parameters TCM IN, TCM OUT, and DEFAULT TCM on this form. If the TCM in either direction is a one-digit number, it will need conversion provided by the ARSTCM form (5608-8 Record) to or from the two-digit format of the FRL.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E6 and later, this field must be set to "Y" if the ARS GROUP NAME assigned on the ARSTCM form is defined as CSV ARS GROUP or CSD ARS GROUP on this ARSFD form.

2.14 CCSA LIMITATION

Description: Should CCSA SFG (Simulated Facility Group) and private CCSA AMA billing records be used?

If this entry equals "Y", the "CCSA SFG" and special billing will be used only when the ARS originated call is being interpreted in the Private Network Dialing Plan 1 associated with the ARS Group of the terminal. If the initial digits are being interpreted in either the Office Dialing Plan or PNDP 2, then CCSA is not applicable. For additional information, see the PNDP form (5608-10/11 Records) and the PFATG form (5609-2 Record).

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

3. FORM ENTRIES, 5608-1B RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

DEFAULT PARAMETERS

The following fields (Section 3.2 - Section 3.20) define the default parameters assigned with the feature to terminals (lines or trunks). These parameters will be assigned to the terminal unless they are overridden by entries on the ARSLPA, ARSMPA or ARSTPA forms.

3.2 ARS GROUP NAME

Description: This field is used to insert the name of the ARS Group. The maximum quantity of ARS Groups in an office is 200.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

Data Rules:

The ARS Group Name must be defined on an ARSGPA (5608-2 Record) form.

3.3 CSV ARS GRP

Description: This field is used to enter the Circuit-Switched Voice ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The ARS Group Name must be defined on the ARSGPA form (5608-2 Record) with GROUP TYPE of "VOICE".

Defining a CSV ARS GRP is not required, however; if a CSD ARS GRP is defined on this form, then a CSV ARS GRP also must be defined.

If CSV ARS GRP is entered, the following fields must be entered: TONE TYPE, ARS SI, USE ALT FRL, ALW MDR RAO, QUEUE ALLOWED and PRIORITY QUEUE.

3.4 CSD ARS GRP

Description: This field is used to enter the name of the Circuit-Switched Data ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The CSD ARS GRP must match an ARS Group Name defined on the ARSGPA (5608-2 Record) form with a GROUP TYPE of "CSD".

There cannot be CSD only groups for ARS service. This field can only be entered if CSV ARS GRP is entered.

If this CSD ARS GRP is to be assigned to a trunk or trunk group via the TRUNKFA or TKGRPFA form and the TRKCLS on the associated TKGRP form is "EDSL" or "EDSLHM", the DATA RATE on the corresponding TKGRP form must be entered.

3.5 TONE TYPE

Description: This field is used to indicate the warning tone to be applied to the ARS call originator if a route marked as an expensive route (as indicated on the MCRTIDX form 5304 Record) is accessed.

Valid TONE TYPE Entries

Entry	Definition
BEEP1	A single beep tone.
NONE	No tone.

3.6 FRL LINE

Description: This field is used to indicate the FRL (Facility Restriction Level) of privilege assigned to the terminal.

If the ARS feature is defined with FRL TYPE equal to "FIX" and FRL LINE has an entry, the entry must be 16. Each ARS route within a route list of a route pattern (which is defined on an MCRTIDX form (5304 Record)) is also assigned an FRL to indicate the minimum level of privilege needed to access the facility. The terminal must have an FRL number greater than or equal to the FRL of the route to succeed.

If the FRL of the terminal is less than the FRL of the route, then Reorder tone is applied. With 5E3 and later, before Reorder tone is given, there may be interactions with Authorization Codes and Queuing, if applicable.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

3.7 USE ALT FRL

Description: Should the terminal's FRL (Facility Restriction Level) be changed when the Alternate FRL table is activated via a dial code or Time of Day?

Software Release: 5E3 and later
Valid Entries: Y, N

Data Rules:

If the associated ARS Group has ALW ALT FRL equal to "N" on the ARSGPA form (5608-2 Record) then this entry must equal "N".

3.8 ARS SI

Description: This field is used to indicate the ARS Screening Index associated with the terminal.

The ARS SIs provide the ability to give different ARS routing treatment to groups of terminals within an ARS Group. The ARS Group Name and each ARS SI for the group must be entered along with all applicable ARS Indexes (found in digit analysis) on the ARSSCRN form (5608-6 Record).

Software Release: 5E3 and later
Valid Entries: 1 - 16 characters

3.9 ALW MDR RAO

Description: Should an AMA billing record be made when the terminal originates a call which finds a Charge Index with an AMA Call Type of "CCSAS", "ETSMDR" or "ETSCCSA"? By setting Allow Message Detail Recording to Revenue Accounting Office to "N", these private billing records will be inhibited for this terminal.

Software Release: 5E3 and later
Valid Entries: Y, N

3.10 PRIVATE DN

Description: This field is used to enter the Private Directory billing number. If entered this number will be used for the Message Detail Recording of private billing records either to the CL (Customer Location) or RAO (Revenue Accounting Office).

Software Release: 5E3 and later
Valid Entries:
For 5E11 and earlier: enter up to 7 digits, 0 - 9
For 5E12 and later: enter up to 10 digits, 0 - 9

3.11 TCM IN

Description: This field is used to indicate whether a one or two-digit TCM (Traveling Class Mark) is expected to be received on incoming calls on trunks which are assigned this feature. This parameter is only applicable to trunks. Lines which are assigned this feature (when this field has an entry) will not have the value stored and, therefore, has no effect on the lines.

This feature may be used only when a Private Network Dialing Plan is interpreting the ARS digits. See the PNDP form (5608-10/11 Records).

Software Release: 5E3 and later
Valid Entries:

Valid TCM IN Entries

Entry	Definition
1	Indicates a one-digit TCM.
2	Indicates a two-digit TCM.

Data Rules:

When this field is entered, TCM OPTION must equal "Y" and trunks assigned this feature must be One-Way Incoming or Two-Way.

For 5E6 and later, if a trunk with TRKCLS "EDSL" or "EDSLHM" (on the TKGRP form) is assigned this feature without an overriding ARSTPA form, then TCM IN must be left blank.

3.12 TCM OUT

Description: This field is used to indicate whether a one or two-digit TCM (Traveling Class Mark) is expected to be sent on outgoing calls on trunks which are assigned this feature. This parameter is only applicable to trunks. Lines which are assigned this feature (when this field has an entry) will not have the value stored and, therefore, has no effect on the lines.

Software Release: 5E3 and later
Valid Entries:

Valid TCM OUT Entries

Entry	Definition
1	Indicates a one-digit TCM.
2	Indicates a two-digit TCM.

Data Rules:

For 5E6 and later , if this field is entered, an ARSTCM form must be entered with an ARS GROUP NAME that matches the CSV ARS GROUP defined on this ARSFD form.

When this field is entered, then TCM OPTION must equal "Y" and trunks assigned this feature must be One-Way Outgoing or Two-Way.

For 5E6 and later, if a trunk with TRKCLS "EDSL" or "EDSLHM" (on the TKGRP form) is assigned this feature without an overriding ARSTPA form, then TCM OUT must be left blank.

3.13 DEFAULT TCM

Description: This field is used to specify the Default Traveling Class Mark for any trunk that has TCM OUT specified. The Outgoing TCM is normally determined by the FRL (Facility Restriction Level) of the call. If an FRL is not present, the Default TCM will be used. Such would be the case on a maintenance test call or if the trunk can also be accessed through PFA (Private Facility Access) codes.

Software Release: 5E3 and later
Valid Entries: 0 - 16

Data Rules:

When TCM OUT is 1, this field may be 0 - 7; when TCM OUT is 2 it may be 0 - 16; otherwise, leave it blank.

When this field is entered, trunks assigned this feature without an overriding ARSTPA form must be One-Way Outgoing or Two-Way, i.e., the TRK DIR on the TKGRP form must be "OUT" or "2W".

For 5E6 and later, if a trunk with TRKCLS "EDSL" or "EDSLHM" (on the TKGRP form) is assigned this feature without an overriding ARSTPA form, then DEFAULT TCM must be left blank.

3.14 QUEUE ALLOWED

Description: Is the terminal allowed to queue for the first route in the ARS route list when queuing is active and all routes are busy?

Software Release: 5E3 and later
Valid Entries: Y, N

Data Rules:

For 5E9(1) and later when an MLHG member has a "MODEM" class of service, it may not be assigned an ARS feature (on the MLHLNFA, BFG, or associated CLUSTR form) where QUEUE ALLOWED is set to "Y" on the ARSFD, ARSMPA, or BFG form. An MLHG member is defined as MLHG and TERM on an MLHLN form or as CKT MLHG and CKT TERM on a DSLUSR form.

3.15 PRIORITY QUEUE

Description: Should the terminal be allowed to enter the Priority Queue? Incoming trunks and Attendant lines must have Priority Queuing if queuing is provided.

Software Release: 5E3 and later
Valid Entries: Y, N

3.16 DIAL PLAN

Description: This field is used only when ENTRY equals "AUTO" to indicate where to analyze the ARS dialed number. See the PNDP form (5608- 10/11 Records) if the Dial Plan is 1 or 2.

For terminals that use an access code to invoke ARS (i.e., ENTRY equals "CODE") the action specified for the access code will determine the dialing plan, therefore, this field must be blank.

Software Release: 5E3 and later
Valid Entries:

Valid DIAL PLAN Entries

Entry	Definition
ODP	The Office Dialing Plan of the terminal will be used.
1	The digits will be interpreted in Private Network Dialing Plan 1.
2	The digits will be interpreted in Private Network Dialing Plan 2.

Data Rules:

If DIAL PLAN is 1 or 2, the DIAL PLAN value and CSV ARS GROUP name defined on this form must be defined on the PNINFO form (5608-12 Record).

3.17 RLT FRL IND

Description: Release Link Trunk Facility Restriction Level indicator. Is the original caller's FRL to be used in place of the attendant's FRL for routing and for the MDR Record?

Required Field.

Software Release: 5E5 and later
Default: N
Valid Entries: Y, N

3.18 RLT AMA IND

Description: Release Link Trunk Automatic Message Accounting indicator. Is the original caller's data to be used in place of the attendant's data in the AMA Record?

Required Field.

Software Release: 5E5 and later
Default: N
Valid Entries: Y, N

3.19 VOICE ETE

Description: This field is used to enter the End-to-End Q.931 Connectivity option for voice calls using this ARS feature.

Required Field.

Software Release: 5E6 and later
Default: ANY
Valid Entries:

Valid VOICE ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When CSV ARS GRP is left blank, VOICE ETE must contain the default value of "ANY".

When this form is entered for an ARS feature assigned to a non-PRI Trunk (the corresponding TKGRP form (5202 Record) has TRKCLS set to some value other than "EDSL" or "EDSLHM") without an overriding ARSTPA form VOICE ETE must be set to the default value of "ANY".

When this ARS feature is assigned to a Line or MLHG Terminal and VOICE ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form (5306 Record) must be set to one of the following values: "INDIV", "ATND", "PBX", "4WINDIV", ISDN", "ISATND", "MODEM .

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

Since this field does not appear on the BFG form, if a value other than the default of "ANY" is desired, then that value must appear on the ARSFD form or one of the ARS Line Parameter Assignment (ARSLPA, ARSMPA, ARSTPA) forms.

3.20 DATA ETE

Description: Enter the End-to-End Q.931 Connectivity option for data calls using this ARS feature.

Required Field.

Software Release: 5E6 and later
Default: ANY
Valid Entries:

Valid DATA ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When CSD ARS GRP is left blank, DATA ETE must contain the default value of "ANY".

When this form is entered for an ARS feature assigned to a non-PRI Trunk (the corresponding TKGRP form - 5202 Record, has TRKCLS set to some value other than "EDSL" or "EDSLHM"), without an overriding ARSTPA form, VOICE ETE must be set to the default value of "ANY".

When this ARS feature is assigned to a Line or MLHG Terminal and DATA ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form (5306 Record) must be set to one of the following values: "INDIV", "ATND", "PBX", "4WINDIV", ISDN", "ISATND", "MODEM

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

Since this field does not appear on the BFG form, if a value other than the default of "ANY" is desired, that value must appear on the ARSFD form or one of the ARS Line Parameter Assignment (ARSLPA, ARSMPA, ARSTPA) forms.

ESS 5608-1A(03)TG-5 AUTOMATIC ROUTE SELECTION FEATURE DEFINITION RECORD DATE ___________
5ESS SWITCH
arsfd
12.11
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATUR	REMARKS	FEATURE OPTIONS										
E		DAC	G	G	E	B	F	C	C	C	T	C
NAM		T	R	R	N		R	H				
E		T	A	D		A			H	H		C
		Y	O		T	T	L	A	T	F	C	
		P	C	O							O	S
		E	U	A	R	D		N	A	A		

			T P T Y P E	U C P T T Y P E	Y	R E N A U T M M E N T	T Y P E	G E A P G	O N N G E E W R N	R N L G E A L T	M P T I O N	A L I M I N A T I O N
/AR*	WILD CARD ARS FEATURE	CODE	CODE	CODE	AUTO	POTS	VAR	Y	N	Y	N	N
/ARA	OUTWARD CALLING FOR PBX VIA ARs	NONE	AUTO	NONE	AUTO	POTS	FIX	N	N	N	N	N
/ARAD	USE CODE DELUXE ARS	NONE	AUTO	NONE	CODE	POTS	VAR	N	N	N	N	N
/ARADCCS	USE CODE DELUXE ARS W/CCSA LIMIT	NONE	AUTO	NONE	CODE	POTS	VAR	N	N	N	N	Y
/ARADTCM	USE CODE DELUXE ARS WITH TCM	NONE	AUTO	NONE	CODE	POTS	VAR	N	N	N	Y	N
/ARC	FLEXIBLE ROUTE SELECTION	NONE	AUTO	NONE	CODE	POTS	FIX	N	N	N	N	N
/ARCD	CODE DEACTIVATE DELUXE ARS	CODE	AUTO	NONE	AUTO	POTS	VAR	N	N	N	N	N
/ARGD	DELUXE ARS GROUP CONTROL	NONE	CODE	CODE	AUTO	POTS	VAR	Y	N	Y	N	N

Figure 1 PRECONSTRUCTED ARS FEATURES (OPTIONS) 5E6 AND LATER SOFTWARE RELEASES

ESS 5608-1(03)TG-5 AUTOMATIC ROUTE SELECTION FEATURE DEFINITION RECORD DATE ___________

5ESS SWITCH

arsfd
12.11
BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	FEATURE OPTIONS								DEFAULT PARAMETERS		
		DA	GR	GRD	EN	BA	FR	CH	CH	AR	TO	FRL

		CT TYPE	ACOUTPT TYPE	OAUCPT TYPE	TRY	TDR ENAUTMMENT	L TYPE	ANGE APG	ANGE WRN TONE	SGROUP NAME	NE TYPE	LINE
/AR*	WILD CARD ARS FEATURE	CODE	CODE	CODE	AUTO	POTS	VAR	Y	N			
	OUTWARD CALLING FOR PBX VIA ARS	NONE	AUTO	NONE	AUTO	POTS	FIX	N	N			
/ARAD	USE CODE DELUXE ARS	NONE	AUTO	NONE	CODE	POTS	VAR	N	N			
/ARC	FLEXIBLE ROUTE SELECTION	NONE	AUTO	NONE	CODE	POTS	FIX	N	N			
/ARCD	CODE DEACTIVATE DELUXE ARS	CODE	AUTO	NONE	AUTO	POTS	VAR	N	N			
/ARGD	DELUXE ARS GROUP CONTROL	CODE	CODE	CODE	AUTO	POTS	VAR	N	N			

Figure 2 PRECONSTRUCTED ARS FEATURES (DEFAULT PARAMETERS) 5E6 AND LATER SOFTWARE RELEASES

```
arsfd                             5ESS Switch
(5608-1A/1B)              OFFICE DATA ADMINISTRATION
SCREEN 1 OF 2    AUTOMATIC ROUTE SELECTION FEATURE DEFINITION

 * 2. FEATURE NAME  ARS1        3. REMARKS   ________________________________

          FEATURE OPTIONS:
```

```
   4. DACT TYPE                    NONE     13. TCM OPTION       Y
   5. GROUP ACT TYPE               AUTO     14. CCSA LIMITATION  N
   6. GROUP DACT TYPE              NONE
   7. ENTRY                        CODE            DEFAULT PARAMETERS:
   8. BAD NUMBER TREATMENT         POTS     15. CSV ARS GRP      ARS1
   9. FRL TYPE                     VAR      16. CSD ARS GRP      ARSD
  10. CHANGE ACTIVE PATTERN GROUP  N        17. TONE TYPE        NONE
  11. CHANGE WARNING TONE          N        18. FRL LINE         01
  12. CHANGE ALT FRL               N        19. USE ALT FRL      Y
```

```
arsfd                            5ESS Switch             _
(5608-1A/1B)              OFFICE DATA ADMINISTRATION
SCREEN 2 OF 2    AUTOMATIC ROUTE SELECTION FEATURE DEFINITION

      DEFAULT PARAMETERS:
   20. ARS SI          02               31. VOICE ETE ANY
   21. ALW MDR RAO     Y                32. DATA ETE  ANY
   22. PRIVATE DN      _______
   23. TCM IN          _
   24. TCM OUT         1
   25. DEFAULT TCM     __
   26. QUEUE ALLOWED   N
   27. PRIORITY QUEUE  N
   28. DIAL PLAN       ___
   29. RLT FRL IND     N
   30. RLT AMA IND     N
```

Figure 3 SAMPLE ARSFD FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
arsfd                             5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5608-1A/1B)     AUTOMATIC ROUTE SELECTION FEATURE DEFINITION

*1. FEATURE NAME ________                            12. CHANGE ALT FRL  N
 3. REMARKS      ________________________________    13. TCM OPTION      N
                                                     14. CCSA LIMITATION N
          FEATURE OPTIONS
 4. DACT TYPE                 NONE                      DEFAULT PARAMETERS
 5. GROUP ACT TYPE            AUTO                   15. CSV ARS GRP ________
 6. GROUP DACT TYPE           NONE                   16. CSD ARS GRP ________
 7. ENTRY                     CODE                   17. TONE TYPE   _____
 8. BAD NUMBER TREATMENT      POTS                   18. FRL LINE    __
 9. FRL TYPE                  FIX                    19. USE ALT FRL _
10. CHANGE ACTIVE PATTERN GRP N
```

```
11. CHANGE WARNING TONE       N
```

```
arsfd                             5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5608-1A/1B)     AUTOMATIC ROUTE SELECTION FEATURE DEFINITION

      DEFAULT PARAMETERS         31. VOICE ETE ANY
20. ARS SI         __            32. DATA ETE  ANY
21. ALW MDR RAO    _
22. PRIV DN        __________
23. TCM IN         _
24. TCM OUT        _
25. DEFAULT TCM    __
26. QUEUE ALLOWED  _
27. PRIORITY QUEUE _
28. DIAL PLAN      ___
29. RLT FRL IND    N
30. RLT AMA IND    N
```

Figure 4 SAMPLE ARSFD FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9B: 5608-2 RECORD
AUTOMATIC ROUTE SELECTION GROUP PARAMETER FORM - ARSGPA

1. GENERAL

The 5608-2 Record is available with 5E2 and later Software Releases and is used to define the group level of information required for the ARS (Automatic Route Selection) BRCS capability.

Each terminal (line or trunk) which is to use the ARS capability must be assigned an ARS feature name (defined on the ARSFD form (5608-1 Record)) on the appropriate feature assignment form, LINEFA, MLHLNFA, TKGRPFA, or TRUNKFA. In addition, each terminal must be assigned to an ARS Group which may be defined as a Default Parameter of the ARSFD form or on an individual terminal basis with the ARSLPA, ARSMPA or ARSTPA forms.

1.1 5E3 and Later Software Releases

Exactly one ARSGPA form is submitted for each ARS Group containing the parameters for the group where one value is appropriate for the group independent of the screening data used to determine the first route of an ARS dialed sequence. The screening data must be defined on the ARSSCRN form (5608-6 Record). Many ARSSCRN forms may need to be entered to define routing for the group.

1.2 Call Processing

When the ARS capability is invoked in the 5E2 Software Release, either automatically or via an Access Code defined with action equal to "ARSUSE", special call processing takes place. The number dialed (excluding any Access Code) is analyzed in the originator's POTS (Plain Old Telephone Service) digit analysis tables, usually a PDIT and LDIT. The Call Type is checked to see if this is an appropriate number for ARS routing. If the Call Type is "EMER", ARS is ignored and the call is completed as if ARS routing had not been invoked. If the Call Type is "NORMAL", ARS continues processing. If the Call Type is not "EMER" or "NORMAL", the call is determined to be inappropriate and the ARSFD form (5608-1 Record) is checked to determine how this call should be treated based on BAD NUMBER TREATMENT. When the Call Type is "NORMAL", the Route Index is read for this digit analysis entry.

Because an ARS call is being processed, the software does not enter the Rate and Route Record as a normal POTS call would. Instead, the POTS ROUTE INDEX is used as a key into the ARS Group Parameter information for the particular ARS Group of which the call originator is a member. (This assumes that the ARS Group is active. If not, the call would have been routed based on the POTS digit analysis entries that were just read and processed just like a POTS call.) If the POTS ROUTE INDEX is not found for the ARS Group, the call is processed based on the BAD NUMBER TREATMENT of the ARSFD form. If the POTS ROUTE INDEX is found, the MC ROUTE INDEX entry is read, based on which Pattern Group is active (e.g., when Pattern Group 3 is active, MC ROUTE INDEX 3 is used.)

The Route Indexes produced by POTS digit analysis must be sufficiently unique to determine proper ARS routing for all ARS Groups. This may require that duplicate information be defined for two or more Route Indexes, even though they are not required for POTS calls. For instance, Codes 232 and 989 might use the same terminating Trunk Group for POTS calls and, therefore, the LDIT entries for both would have the same Route Index. However, if an ARS Group required unique routing sequences for these codes, then two Route Indexes would be needed as pointers into the Group Parameter information and separate Route Indexes would be entered (and defined identically) in the LDIT for these two codes.

1.3 Recent Change View

The corresponding Recent Change View for this form is 10.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * ARS GROUP NAME

Description: Enter the name of the ARS Group.
Valid Entries: 1 - 8 characters

Data Rules:

For 5E9 and later, the maximum quantity of ARS Groups in an office is 200.

2.3 GROUP STATUS

Description: Is the ARS Group active?
Default: Y
Valid Entries: Y, N

2.4 NUMBER PATTERN GROUPS ALLOWED

Description: Enter the number of Pattern Groups allowed for this ARS Group.

Required Field.
Default: 1
Valid Entries: 1 - 6

Data Rules:

All ARSGPA forms entered into ODA for a particular ARS Group must have the same value for this field.

2.5 ACTIVE PATTERN GROUP NUMBER

Description: Enter the number of the Pattern Group that is active. In the case where GROUP STATUS equals "N", this field indicates which Pattern Group will be active when the ARS Group is activated.

Required Field.
Default: 1
Valid Entries: 1 - 6

Data Rules:

The value entered must be less than or equal to the value entered in NUMBER PATTERN GROUPS ALLOWED.

All ARSGPA forms entered into ODA for a particular ARS Group must have the same value for this field.

2.6 GROUP TYPE

Description: Enter the type of call the ARS group is applicable to.

Required Field.
Default: VOICE
Valid Entries:

Valid GROUP TYPE Entries

Entry	Definition
VOICE	CSV (Circuit-Switched Voice) calls
CSD	CSD (Circuit-Switched Data) calls

2.7 BAD NUMBER ANNOUNCEMENT RTI

Description: Enter the Route Index to be used when a member of this ARS Group dials an inappropriate number for ARS.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: 1 - 16382

Data Rules:

The Route Index entered here will also be used when any ARSSCRN form (5608-6 Record) has a ROUTE TYPE equal to "ANNCE", or when an associated PNINFO form (5608-12 Record) has ERROR TREATMENT equal to "ANNCE".

If a Route Index is entered here, it must be defined on the RTIDX form (5303 Record) and point to an announcement type Trunk Group.

All ARSGPA forms entered into ODA for a particular ARS Group must have the same value (or blank) for this field.

2.8 INHIBIT TOD

Description: Can TOD (Time Of Day) scheduled changes for the ARS Group be temporarily inhibited by the ARS customer through Facilities Management?

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

2.9 ALW ALT FRL

Description: Are Alternate FRLs (Facility Restriction Levels) allowed for this ARS Group?

When the Action "FRLALT" is invoked via either a dialed code or TOD, the Alternate FRLs will be used instead of the FRL assigned to each terminal in the ARS Group. For additional information and restrictions, see the ARSFRL form.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field equals "Y", the Alternate FRLs for this ARS Group must be defined on the ARSFRL form (5608-7 Record).

2.10 ALT FRL ACTIVE

Description: Is the Alternate FRL (Facility Restriction Level) active for this ARS Group?

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

Data Rules:

If ALW ALT FRL equals "N", the terminal FRLs will always be used and this field must equal "N".

If ALW ALT FRL equals "Y", this field may be equal to either "Y" or "N", where "Y" indicates the Alternate FRL table is active and "N" indicates the terminal FRLs (sometimes referred to as the Main FRLs) are active.

2.11 POST QUEUE FRL

Description: Enter the FRL (Facility Restriction Level) to use for Post Queue routing if the queue times out.

The ARS call is placed on queue under the following conditions. ARS routing searches for an idle port in each succeeding route in the route list until a route is found with an FRL which exceeds the originator's FRL or until the end of the route list. The originator's FRL may be either as assigned as the ARS parameter or it may be the Alternate FRL if this group has Alternate FRLs and they are active. If the search through the route list has stopped because the originator's FRL is insufficient, the Authorization Code feature may be invoked to provide a higher FRL for the terminal so that more routes may be searched.

If the Authorization Code feature is not used for this terminal or an idle port still cannot be found, the call will be placed on the queue of the first choice facility if that facility, either a Trunk Group or a Simulated Facility Group, has an active Queue Feature assigned to it and the originating terminal is allowed to queue. See the ARS parameter QUEUE ALLOWED on the ARSFD, ARSLPA, ARSMPA or ARSTPA forms.

If the call remains on queue longer than the timeout value specified current FRL of the terminal is equal to or greater than the FRL specified in THRESH FRL, the FRL will be changed to the FRL value specified in this field. This may be used to upgrade the terminal's FRL so that more routes may be searched on this second routing attempt. If a route is found this time with an FRL greater than currently used for the terminal, the call may not queue again so Reorder tone will be applied. If post queue FRL upgrade is not desired, leave this field blank.
Valid Entries: 0 - 16

Data Rules:

If this entry is specified, THRESH FRL must be specified.

2.12 THRESH FRL

Description: Enter a minimum or Threshold value of the current terminal FRL (Facility Restriction Level) before the FRL will be upgraded to the FRL specified in POST QUEUE FRL.
Valid Entries: 0 - 16

Data Rules:

If this field has an entry, then POST QUEUE FRL must be specified. Additionally, the FRL value entered here must be less than or equal to the POST QUEUE FRL value.

2.13 SAT HOP CNT

Description: Enter the maximum Satellite Hop Count allowed for each call in an ARS group. This represents the maximum number of satellite hops a call can take during its routing. When the maximum Satellite Hop Count is reached or exceeded, then the option specified by the field SAT HOP OPT, also on this form, will determine what action will be taken.

It is suggested, but not required, that all SAT HOP CNT entries within an office be set to the same value.

Required Field.
Default: 2
Valid Entries: 0 - 9

2.14 SAT HOP OPT

Description: Enter the option which will determine what action to take once the Satellite Hop Count has been reached or exceeded.

As an example, consider a call in the process of being routed by an ARS feature whose ARS group has SAT HOP CNT set to 3. The call has passed through 3 satellites so far in the route. The remainder of the route will be handled as follows:

If SAT HOP OPT has been set to "STRICT", then the remainder of the route will not be allowed to pass through any satellites. If the route cannot be completed using only terrestrial facilities, then the route will fail.

If SAT HOP OPT has been set to "PREF", then the remainder of the route will attempt to be made using terrestrial facilities. However, when terrestrial facilities are used up, and satellite facilities exist, the satellite facilities will be used.

If SAT HOP OPT has been set to "ANY", then the remainder of the route will use both terrestrial and satellite facilities, whichever is available.

Required Field.
Default: ANY
Valid Entries:

Valid SAT HOP OPT Entries

Entry	Definition
ANY	Any available route. Once the Satellite Hop Count has been reached, continue to route using either terrestrial or satellite facilities, whichever is available.
PREF	Preferred terrestrial route. Once the Satellite Hop Count has been reached, try to route using terrestrial facilities; if no terrestrial facilities are available, route using satellite facilities.
STRICT	Strictly terrestrial route. Once the Satellite Hop Count has been reached, try to route using terrestrial facilities; if no terrestrial facilities are available, the route will fail.

2.15 LN CUST ID

Description: Enter the LN (Leased Network) Customer ID.

It is the LN ARSID received by the LN Action Control Point from the Network Control Point or received by an LN VIA office in a CCS7 ISUP Initial Address Message. This is the Internal ARS Voice ID assigned to the

associated ARS group name when the associated GROUP TYPE is entered as "VOICE" and the Internal ARS Data Group ID assigned to the associated ARS Group Name when the associated GROUP TYPE is entered as "CSD".
Valid Entries: 1 - 255

Data Rules:

An LN CUST ID number can only be defined on a maximum of two ARSGPA forms, of which exactly one GROUP TYPE must be "VOICE".

```
arsgpa                           5ESS Switch             _
(5608-2)                  OFFICE DATA ADMINISTRATION
                  AUTOMATIC ROUTE SELECTION GROUP PARAMETERS

 * 1. ARS GROUP NAME     XYZ                 12. SAT HOP CNT 2
                                             13. SAT HOP OPT ANY
   2. GROUP STATUS                   Y       14. LN CUST ID  ___
   3. NUMBER PATTERN GROUPS ALLOWED  1
   4. ACTIVE PATTERN GROUP NUMBER    1
   5. GROUP TYPE                     VOICE
   6. BAD NUMBER ANNOUNCEMENT RTI    0123
   7. INHIBIT TOD                    N
   8. ALW ALT FRL                    N
   9. ALT FRL ACTIVE                 N
  10. POST QUEUE FRL                 16
  11. THRESH FRL                     01
```

Figure 1 SAMPLE ARSGPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 9C: 5608-3 RECORD
AUTOMATIC ROUTE SELECTION LINE (TN) PARAMETER FORM - ARSLPA

1. GENERAL

The 5608-3 Record is available with 5E2 and later Software Releases. It is used when assigning ARS (Automatic Route Selection) features to non-Multi-Line Hunt lines. The ARS feature parameters are assigned to the lines if the default parameters of the ARSFD form (5608-1A/1B Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the line.
Valid Entries:
For 5E2: NXXXXXX, where N is 2 - 9 and X is 0 - 9.
For 5E3 through 5E11: XXXXXXX, where X is a number in the range of 0 - 9.
For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

The associated Class Of Service on the LCC form (5306 Record) must be:

CLASS OF SERVICE	Definition
ATND	50B Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
MODEM	Software Release: 5E4(2) and later. Packet Switching Modem Pooling.

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

For 5E12 and later, TN/FEATURE combinations on different ARSLPA forms cannot be duplicated.

2.3 * FEATURE

Description: Enter the name of the ARS feature for which the parameters are to be assigned. The name entered here must be that of an ARS feature defined on the ARSFD form (5608-1A/1B Record).
Valid Entries: 1 - 8 characters

2.4 * ARS GROUP NAME

Description: This field has been renamed CSV ARS GRP for 5E6 and later.

Enter the name of an ARS Group of which this line is a member.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ARS Group defined on the ARSGPA form (5608-2 Record). The maximum quantity of ARS Groups in an office is 200.

2.5 # CSV ARS GRP

Description: Enter the name of the CSV (Circuit-Switched Voice) ARS group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME defined on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "VOICE". Defining a CSV ARS GRP for this port is required.

If this form is entered and CCSA LIMITATION is "Y" on the ARSFD form, the CSV ARS GROUP assigned on this form must match the ARS GROUP NAME defined on the PNINFO form (5608-12 Record) where DIAL PLAN is 1.

2.6 CSD ARS GRP

Description: Enter the name of the CSD (Circuit-Switched Data) ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "CSD". Defining a CSD ARS GRP for this port is optional.

If a CSD group is defined the CSD ARS GRP name must not be the same as the CSV ARS GRP name.

2.7 TONE TYPE

Description: Enter the warning tone to be applied to the line if a route marked as an expensive route (as indicated on the MCRTIDX form (5304 Record)) is accessed.

Required Field.
Default: NONE
Valid Entries:

Valid TONE TYPE Entries

Entry	Definition
BEEP1	A single beep tone.
NONE	No tone.

2.8 FRL LINE

Description: Enter the FRL (Facility Restriction Level) of privilege assigned to the line. Each ARS route within a route list of a route pattern (which is defined on an MCRTIDX form (5304 Record)) is also assigned an FRL to indicate the minimum level of privilege needed to access the facility. The line must have an FRL number greater than or equal to the FRL of the route to succeed.

If the FRL of the line is less than the FRL of the route, then Reorder tone is applied. With 5E3 and later, before Reorder tone is given, there may be interactions with Authorization Codes and Queuing, if applicable.

Required Field.
Default: 16
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

Data Rules:

If the ARS feature to which this line is assigned is defined with FRL TYPE equal to "FIX", then the entry must be 16.

2.9 USE ALT FRL

Description: Should the terminal's FRL change when the Alternate FRL table is activated via a dial code or TOD (Time Of Day) feature?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the associated ARS Group has ALW ALT FRL equal to "N" on the ARSGPA form (5608-2 Record), then this entry must equal "N".

2.10 ARS SI

Description: Enter the ARS-SI (Automatic Route Selection Screening Index) associated with the terminal. The ARS SIs provide the ability to give different ARS routing treatment to groups of terminals within an ARS Group.

Software Release: 5E3 and later
Required Field.

Default: 1
Valid Entries: 1 - 16

Data Rules:

The ARS Group Name and each ARS SI for the group must be entered along with all applicable ARS Indexes (found in digit analysis) on the ARSSCRN form (5608-6 Record).

2.11 ALW MDR RAO

Description: Should an AMA (Automatic Message Accounting) billing record be made when the terminal originates a call which finds a Charge Index with an AMA Call Type of "CCSAS", "ETSMDR", or "ETSCCSA"?

By setting ALW MDR RAO (Allow Message Detail Recording to Revenue Accounting Office) to "N", the private billing records will be inhibited for this terminal.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.12 PRIVATE DN

Description: Enter the Private directory billing number. This number, if entered, will be used for the MDR (Message Detail Recording) of private billing records either to the CL (Customer Location) or RAO.

Software Release: 5E3 and later
Valid Entries:
For 5E11 and earlier: enter up to 7 digits, 0 - 9
For 5E12 and later: enter up to 10 digits, 0 - 9

2.13 QUEUE ALLOWED

Description: Is the Terminal allowed to queue for the first route in the ARS route list when queuing is active and all routes are busy? For 5E6 and later, this applies to CSV ARS GRP only.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.14 PRIORITY QUEUE

Description: Should the terminal be in the Priority Queue when queuing is allowed for a terminal? Attendant lines must have Priority Queuing if queuing is provided.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this entry equals "Y", then QUEUE ALLOWED must be equal to "Y".

2.15 DIAL PLAN

Description: Enter where to analyze the ARS dialed number. This field is used only when the ARS Feature associated with this line is defined with ENTRY equal to "AUTO" on the ARSFD form (5608-1A/1B Record). See the PNDP form (5608-10/11 Records).

Software Release: 5E3 and later
Valid Entries:

Valid DIAL PLAN Entries

Entry	Definition
ODP	Use Office Dialing Plan of the terminal.
1	Digits will be interpreted in PNDP (Private Network Dialing Plan) 1.
2	Digits will be interpreted in PNDP 2.

Data Rules:

For 5E6 and later, if this field is entered for a CSV ARS GROUP, this group must be entered as ARS GROUP NAME on the PNDP form for the corresponding INCOMING DIGITS value and the DIAL PLAN value and CSV ARS GROUP NAME must be defined on the PNINFO form (5608-12 Record).

For terminals that use an access code to invoke ARS (i.e., ENTRY equals "CODE") the action specified for the access code will determine the dialing plan, therefore, this field must be blank.

2.16 VOICE ETE

Description: Enter the ETE (End-to-End) Q.931 Connectivity option for voice calls using this ARS feature.

Software Release: 5E6 and later
Required Field.
Default: ANY
Valid Entries:

Valid VOICE ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI (Primary Rate Interface) trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When this ARS feature is assigned to a Line or MLHG Terminal and VOICE ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form must be set to one of the following values: "INDIV", "ATND", "PBX", "4WINDIV", "ISDN", "ISATND", or "MODEM".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

2.17 DATA ETE

Description: Enter the ETE (End-to-End) Q.931 Connectivity option for data calls using this ARS feature.

Software Release: 5E6 and later

Required Field.
Default: ANY
Valid Entries:

Valid DATA ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When CSD ARS GRP is left blank, then DATA ETE must contain the default value of "ANY".

When this ARS feature is assigned to a Line or MLHG Terminal and DATA ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form must be set to one of the following values: "INDIV", "ATND", "PBX", "4WINDIV", "ISDN", "ISATND", or "MODEM".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

```
arslpa                           5ESS Switch             _
(5608-3)                  OFFICE DATA ADMINISTRATION
                AUTOMATIC ROUTE SELECTION LINE (TN) PARAMETERS

 * 1. TN               5107559        12. PRIORITY QUEUE N
 * 2. FEATURE          /ARAD          13. DIAL PLAN      ___
                                      14. VOICE ETE      ANY
 # 3. CSV ARS GRP      GRP1           15. DATA ETE       ANY
   4. CSD ARS GRP      ________
   5. TONE TYPE        NONE
   6. FRL LINE         16
   7. USE ALT FRL      N
   8. ARS SI           01
   9. ALW MDR RAO      N
  10. PRIVATE DN       _______
  11. QUEUE ALLOWED    N
```

Figure 1 SAMPLE ARSLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
arslpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5608-3)        AUTOMATIC ROUTE SELECTION LINE (TN) PARAMETERS

*1. TN      __________          12. PRIORITY QUEUE N
*2. FEATURE ________            13. DIAL PLAN      ___
                                14. VOICE ETE      ANY
#3. CSV ARS GRP   ________      15. DATA ETE       ANY
 4. CSD ARS GRP   ________
 5. TONE TYPE     NONE
```

```
 6. FRL LINE       16
 7. USE ALT FRL    N
 8. ARS SI         01
 9. ALW MDRRAO   N
10. PRIV DN        __________
11. QUEUE ALLOWED N
```

Figure 2 SAMPLE ARSLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9D: 5608-4 RECORD
AUTOMATIC ROUTE SELECTION LINE (MLHG/TERM) PARAMETER FORM - ARSMPA

1. GENERAL

The 5608-4 Record is available with 5E2 and later Software Releases. It is used when assigning ARS features to Multi-Line Hunt lines to assign ARS feature parameters to the lines if the default parameters of the ARSFD form (5608-1A/1B Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 3.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group Number of the line.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: 1 - 8191

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Member Number of the line.
Valid Entries:
1 - 2015
3001-3999 (Outdial Terminals Only)

Data Rules:

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be:

CLASS OF SERVICE	Definition
ATND	50B "Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
MODEM	Software Release: 5E4(2) and later. Packet Switching Modem Pooling.

2.4 * FEATURE

Description: Enter the name of the ARS feature for which the parameters are to be assigned. The name entered here must be that of an ARS feature defined on the ARSFD form (5608-1A/1B Record).
Valid Entries: 1 - 8 characters

2.5 * ARS GROUP NAME

Description: This field has been renamed CSV ARS GRP for 5E6 and later.

Enter the name of an ARS Group of which this line is a member.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ARS Group defined on the ARSGPA form (5608-2 Record). The maximum quantity of ARS Groups in an office is 200.

2.6 # CSV ARS GRP

Description: Enter the name of the CSV "(Circuit-Switched Voice) ARS group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME defined on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "VOICE". Defining a CSV ARS GRP for this port is required.

For 5E6 and later, if this form is entered and CCSA LIMITATION is "Y" on the ARSFD form, the CSV ARS GROUP assigned on this form must match the ARS GROUP NAME defined on the PNINFO form (5608-12 Record) where DIAL PLAN is 1.

2.7 CSD ARS GRP

Description: Enter the name of the CSD "(Circuit-Switched Data) ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "CSD". Defining a CSD ARS GRP for this port is optional. If a CSD group is defined the CSD ARS GRP name must not be the same as the CSV ARS GRP name.

2.8 TONE TYPE

Description: Enter the warning tone to be applied to the line if a route marked as an expensive route (as indicated on the MCRTIDX form (5304 Record)) is accessed.

Required Field.

Default: NONE
Valid Entries:

Valid TONE TYPE Entries

Entry	Definition
BEEP1	A single beep tone.
NONE	No tone.

2.9 FRL LINE

Description: Enter the FRL (Facility Restriction Level) of privilege assigned to the line. Each ARS route within a route list of a route pattern (which is defined on an MCRTIDX form (5304 Record)) is also assigned an FRL to indicate the minimum level of privilege needed to access the facility. The line must have an FRL number greater than or equal to the FRL of the route to succeed.

If the FRL of the line is less than the FRL of the route, then Reorder tone is applied. With 5E3 and later, before Reorder tone is given, there may be interactions with Authorization Codes and Queuing, if applicable.

Required Field.
Default: 16
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

Data Rules:

If the ARS feature which this line is assigned is defined with FRL TYPE equal to "FIX", then the entry must be 16.

2.10 USE ALT FRL

Description: Should the terminal's FRL change when the Alternate FRL table is activated via a dial code or TOD (Time Of Day) feature?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the associated ARS Group has ALW ALT FRL equal to "N" on the ARSGPA form (5608-2 Record), then this entry must equal "N".

2.11 ARS SI

Description: Enter the ARS-SI (Automatic Route Selection Screening Index) associated with the terminal. The ARS SIs provide the ability to give different ARS routing treatment to groups of terminals within an ARS Group.

Software Release: 5E3 and later
Required Field.
Default: 1

Valid Entries: 1 - 16

Data Rules:

The ARS Group Name and each ARS SI for the group must be entered along with all applicable ARS Indexes (found in digit analysis) on the ARSSCRN form (5608-6 Record).

2.12 ALW MDR RAO

Description: Should an AMA (Automatic Message Accounting) billing record be made when the terminal originates a call which finds a Charge Index with an AMA Call Type of "CCSAS", "ETSMDR , or "ETSCCSA"?

By setting ALW MDR RAO (Allow Message Detail Recording to Revenue Accounting Office) to "N", the private billing records will be inhibited for this terminal.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.13 PRIVATE DN

Description: Enter the Private directory billing number. This number, if entered, will be used for the MDR (Message Detail Recording) of private billing records either to the CL (Customer Location) or RAO.

Software Release: 5E3 and later
Valid Entries:
  For 5E11 and earlier: enter up to 7 digits, 0 - 9
  For 5E12 and later: enter up to 10 digits, 0 - 9

2.14 QUEUE ALLOWED

Description: Is the Terminal allowed to queue for the first route in the ARS route list when queuing is active and all routes are busy? For 5E6 and later, this applies to CSV ARS GRP only.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.15 PRIORITY QUEUE

Description: Should the terminal be in the Priority Queue when queuing is allowed for a terminal? Attendant lines must have Priority Queuing if queuing is provided.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this entry equals "Y", then QUEUE ALLOWED must be equal to "Y".

2.16 DIAL PLAN

Description: Enter where to analyze the ARS dialed number. This field is used only when the ARS Feature associated with this line is defined with ENTRY equal to "AUTO" on the ARSFD form (5608-1A/1B Record). See the PNDP form (5608-10/11 Records).

Software Release: 5E3 and later
Valid Entries:

Valid DIAL PLAN Entries

Entry	Definition
ODP	Use Office Dialing Plan of the terminal.
1	Digits will be interpreted in PNDP (Private Network Dialing Plan) 1.
2	Digits will be interpreted in PNDP 2.

Data Rules:

For 5E6 and later, if this field is entered for a CSV ARS GROUP, this group must be entered as ARS GROUP NAME on the PNDP form for the corresponding INCOMING DIGITS value and the DIAL PLAN value and CSV ARS GROUP NAME must be defined on the PNINFO form (5608-12 Record).

For terminals that use an access code to invoke ARS (i.e., ENTRY equals "CODE") the action specified for the access code will determine the dialing plan, therefore, this field must be blank.

2.17 VOICE ETE

Description: Enter the ETE "(End-to-End) Q.931 Connectivity option for voice calls using this ARS feature.

Software Release: 5E6 and later
Required Field.
Default: ANY
Valid Entries:

Valid VOICE ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI (Primary Rate Interface) trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When this ARS feature is assigned to a Line or MLHG Terminal and VOICE ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form must be set to one of the following values: "INDIV", "ATND , "PBX", "4WINDIV", "ISDN", "ISATND", or "MODEM".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

2.18 DATA ETE

Description: Enter the ETE "(End-to-End) Q.931 Connectivity option for data calls using this ARS feature.

Software Release: 5E6 and later

Required Field.
Default: ANY
Valid Entries:

Valid DATA ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. If no PRI trunks are available, the route will fail.

Data Rules:

When CSD ARS GRP is left blank, then DATA ETE must contain the default value of "ANY".

When this ARS feature is assigned to a Line or MLHG Terminal and DATA ETE is set to any value other than "ANY", then CLASS OF SERVICE on the appropriate LCC form must be set to one of the following values: "INDIV", "ATND", "PBX", "4WINDIV", "ISDN", "ISATND", or "MODEM".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

```
arsmpa                           5ESS Switch             _
(5608-4)                  OFFICE DATA ADMINISTRATION
            AUTOMATIC ROUTE SELECTION LINE (MLHG/TERM) PARAMETERS

* 1. MLHG             0003           12. QUEUE ALLOWED    N
* 2. TERM             0001           13. PRIORITY QUEUE   N
* 3. FEATURE          /ARC           14. DIAL PLAN        ___
                                     15. VOICE ETE        ANY
# 4. CSV ARS GRP      GRP1           16. DATA ETE         ANY
  5. CSD ARS GRP      ________
  6. TONE TYPE        NONE
  7. FRL LINE         16
  8. USE ALT FRL      N
  9. ARS SI           01
 10. ALW MDR RAO      N
 11. PRIVATE DN       _______
```

Figure 1 SAMPLE ARSMPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
arsmpa                           5ESS Switch             _
(5608-4)                  OFFICE DATA ADMINISTRATION
            AUTOMATIC ROUTE SELECTION LINE (MLHG/TERM) PARAMETERS

* 1. MLHG             0003           12. QUEUE ALLOWED    N
* 2. TERM             0001           13. PRIORITY QUEUE   N
* 3. FEATURE          /ARC           14. DIAL PLAN        ___
                                     15. VOICE ETE        ANY
# 4. CSV ARS GRP      GRP1           16. DATA ETE         ANY
  5. CSD ARS GRP      ________
```

```
  6. TONE TYPE        NONE
  7. FRL LINE         16
  8. USE ALT FRL      N
  9. ARS SI           01
 10. ALW MDR RAO      N
 11. PRIVATE DN       _______
```

Figure 2 SAMPLE ARSMPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9E: 5608-5 RECORD
AUTOMATIC ROUTE SELECTION TRUNK (TGN/MEMB) PARAMETER FORM - ARSTPA

1. GENERAL

The 5608-5 Record is available with 5E2 and later Software Releases. It is used when assigning ARS features to trunks if the default parameters of the ARSFD form (5608-1A/1B Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.21.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the Office Name on each record.

2.2 * TGN

Description: This field is used to enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202-1 Record) must be:

TKCLS Entry	Definition
PF	Private Facility
PFCPE	Private Facility Customer Premise Equipment
PFLASH	Private Facility Feature Flash
PFITT	Software Release: 5E3 and later. Private Facility Intertandem Trunk
EDSL	Software Release: 5E8 and later. Extended Digital Subscriber Line trunk.
EDSLHM	Software Release: 5E8 and later. EDSL trunk for Hotel/Motel TSPS service.

2.3 * MEMB

Description: This field is used to enter the Trunk Group Member Number of the trunk.

Required Field.
Valid Entries:
For 5E2 only: 0-1983
For 5E3 and later: 0-1951

2.4 * FEATURE

Description: This field is used to enter the ARS feature name for which the parameters are to be assigned.

Required Field.
Valid Entries: 1- 8 characters

Data Rules:

The name entered here must be that of an ARS feature defined on the ARSFD form (5608-1A/1B Record).

2.5 ARS GROUP NAME

Description: This field is used to enter the ARS Group Name. The maximum quantity of ARS Groups in an office is 200. For 5E6 and later this field has been renamed CSV ARS GRP.

Software Release: 5E5 and earlier
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ARS Group defined on the ARSGPA form (5608-2 Record).

2.6 CSV ARS GRP

Description: This field is used to enter the name of the circuit-switched voice ARS group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "VOICE".

If this form is entered and CCSA LIMITATION is "Y" on the ARSFD form, the CSV ARS GROUP assigned on this form must match the ARS GROUP NAME defined on the PNINFO form (5608-12 Record) where DIAL PLAN is 1.

For 5E7 and later, when this field is not entered, TCM IN and TCM OUT cannot be entered.

2.7 CSD ARS GRP

Description: This field is used to enter the name of the circuit-switched data ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined with a matching ARS GROUP NAME on the ARSGPA form (5608-2 Record) with a GROUP TYPE of "CSD". Defining a CSD ARS GRP for this port is optional. If a "CSD" group is defined, the CSD ARS GRP name must not be the same as the CSV ARS GRP name.

If this CSD ARS GRP is to be assigned to a trunk or trunk group via the TRUNKFA form (5205 Record) or TKGRPFA form (5206 Record) (FEATURE on TRUNKFA form, TKGRPFA form (5206 Record) or CLUSTR form (5600 Record) matches FEATURE on this ARSFD form) and the TRKCLS for the corresponding TGN/MEMB(s) is "EDSL" or "EDSLHM" on the TKGRP form (5202 Record) the DATA RATE on the TKGRP form must be entered.

2.8 TONE TYPE

Description: This field is used to indicate the warning tone to be applied to the trunk if a route marked as an expensive route (as indicated on the MCRTIDX form (5304 Record)) is accessed.

Required Field.
Default: NONE
Valid Entries:

Valid TONE TYPE Entries

Entry	Definition
BEEP 1	A single beep tone
NONE	No tone

2.9 FRL LINE

Description: This field is used to indicate the FRL (Facility Restriction Level) of privilege assigned to the trunk. Each ARS route within a route list of a route pattern (which is defined on an MCRTIDX form (5304 Record)) is also assigned an FRL to indicate the minimum level of privilege needed to access the facility. The trunk must have an FRL number greater than or equal to the FRL of the route to succeed.

If the FRL of the trunk is less than the FRL of the route, then reorder tone is applied. With 5E3 and later Software Releases, before Reorder tone is given, there may be interactions with Authorization Codes and Queuing, if applicable.

Required Field.
Default: 16
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

Data Rules:

If the ARS feature to which this trunk is assigned, is defined with FRL TYPE equal to "FIX", then the entry must be 16.

2.10 USE ALT FRL

Description: Should the terminal's FRL (Facility Restriction Level) be changed when the Alternate FRL table is activated via a dial code or Time of Day?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E6 and later, for the associated ARS Group, or CSV ARS GRP and/or CSD ARS GRP, the entry in this field must match ALW ALT FRL entered on the ARSGPA form (5608-2 Record).

2.11 ARS SI

Description: This field is used to indicate the ARS Screening Index associated with the terminal.

The ARS SIs provide the ability to give different ARS routing treatment to groups of terminals within an ARS Group.

Software Release: 5E3 and later
Required Field.
Default: 1
Valid Entries: 1 - 16

Data Rules:

The ARS Group Name and each ARS SI for the group must be entered along with all applicable ARS Indexes (found in digit analysis) on the ARSSCRN form (5608-6 Record).

2.12 ALW MDR RAO

Description: Should an AMA billing record be made when the terminal originates a call which finds a Charge Index with an AMA Call Type of "CCSAS", "ETSMDR" or "ETSCCSA" ?

By setting ALW MDR RAO (Allow Message Detail Recording to Revenue Accounting Office) to "N", these private billing records will be inhibited for this terminal.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.13 PRIVATE DN

Description: This field is used to enter the Private directory billing number. This Private directory billing number, if entered, will be used for the MDR (Message Detail Recording) of private billing records either to the CL (Customer Location) or RAO (Revenue Accounting Office).

Software Release: 5E3 and later
Valid Entries:
  For 5E11 and earlier: enter up to 7 digits, 0 - 9
  For 5E12 and later: enter up to 10 digits, 0 - 9

2.14 TCM IN

Description: This field is used to indicate whether a one-digit or two-digit TCM (Traveling Class Mark) is expected to be received on incoming calls on this trunk.

Software Release: 5E3 and later
Valid Entries:

Valid TCM IN Entries

Entry	Definition
1	Indicates a one-digit TCM
2	Indicates a two-digit TCM

Data Rules:

This feature may be used only when a Private Network Dialing Plan is interpreting the ARS digits. See the PNDP form (5608-10/11 Records).

When this field is entered, then TCM OPTION on the ARSFD form (5608-1A Record) must equal "Y". Additionally, this trunk must be One-Way Incoming or Two-Way.

When 1 is entered, the ARSTCM form (5608-8 Record) will be used to convert the one-digit TCM to a two-digit FRL (Facility Restriction Level) to be used during call processing.

For 5E6 and later, this field must be left blank when the trunk has a TRKCLS of "EDSL" or "EDSLHM" on the associated TKGRP form (5202 Record).

2.15 TCM OUT

Description: This field is used to indicate whether a one-digit or two-digit TCM (Traveling Class Mark) is expected to be sent on outgoing calls on this trunk.

Software Release: 5E3 and later
Valid Entries:

Valid TCM OUT Entries

Entry	Definition
1	Indicates a one-digit TCM
2	Indicates a two-digit TCM

Data Rules:

When this field is entered the TCM OPTION on the ARSFD form (5608-1A Record) must equal "Y". Additionally, this trunk must be One-Way Outgoing or Two-Way. The field, DEFAULT TCM, must also have an entry.

When 1 is entered, the data determined from the ARSTCM form (5608-8 Record) will be used to convert the two-digit FRL value of the current call to the one-digit TCM required for outpulsing.

For 5E6 and later, if this field is set to "Y" and CSV ARS GROUP and/or CSD ARS GROUP name is assigned on this form, the CSV ARS GRP and/or CSD ARS GROUP name must match the ARS GROUP NAME on the ARSTCM form.

For 5E6 and later, this field must be left blank when the trunk has a TRKCLS of "EDSL" or "EDSLHM" on the associated TKGRP form (5202 Record).

2.16 DEFAULT TCM

Description: This field is used to determine if a Default TCM is used.

The DEFAULT TCM (Traveling Class Mark) is specified for any trunk that has TCM OUT specified. The Outgoing TCM is normally determined by the FRL (Facility Restriction Level) of the call. If an FRL is not present, the default TCM will be used. Such would be the case on a maintenance test call or if the trunk can be accessed through PFA (Private Facility Access) codes.

Software Release: 5E3 and later
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

Data Rules:

Valid entries are 0 - 7 when TCM OUT equals 1 and 1 - 16 when TCM OUT equals 2. Otherwise, leave this field blank.

When this field is entered, the trunk must be One-Way Outgoing or Two-Way, TRK DIR "OUT" or "2W" on the associated TKGRP form (5202 Record).

For 5E6 and later, this field must be left blank when the trunk has a TRKCLS of "EDSL" or "EDSLHM" on the associated TKGRP form.

2.17 QUEUE ALLOWED

Description: Is the terminal allowed to queue for the first route in the ARS route list when queuing is active and all routes are busy?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.18 PRIORITY QUEUE

Description: If queuing is allowed for a terminal, should the terminal be in the Priority Queue? Incoming Trunks must have Priority Queuing if queuing is provided.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If this entry equals "Y", then QUEUE ALLOWED must be equal to "Y".

2.19 DIAL PLAN

Description: This field is used only when the ARS Feature associated with this trunk is defined with ENTRY equal to "AUTO" on the ARSFD form (5608-1A Record). It is used to indicate where to analyze the ARS dialed number.

Software Release: 5E3 and later
Valid Entries:

Valid DIAL PLAN Entries

Entry	Definition
1	The digits will be interpreted in Private Network Dialing Plan 1

2	The digits will be interpreted in Private Network Dialing Plan 2
ODP	The Office Dialing Plan of the terminal will be used

Data Rules:

For more information detailing valid entries please see the PNDP form (5608-10/11 Records).

For 5E6 and later, the DIAL PLAN value and CSV ARS GROUP name must be defined on the PNINFO form (5608-12 Record).

For terminals that use an access code to invoke ARS (i.e., ENTRY equals "CODE"), the action specified for the access code will determine the dialing plan, therefore, this field must be blank.

2.20 RLT FRL IND

Description: Is the original caller's FRL to be used in place of the attendant's FRL for routing and for the MDR Record? Enter the Release Link Trunk Facility Restriction Level indicator.

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This entry must be "Y" if the original caller's FRL is to be used in place of the attendant's FRL for routing and for the MDR Record.

If this field is "Y", then RLT TYPE must not be "NONE" on the associated TKGRP form.

2.21 RLT AMA IND

Description: Is the original caller's data to be used in place of the attendant's data in the AMA Record? Enter the Release Link Trunk Automatic Message Accounting indicator.

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This entry must be "Y" if the original caller's data is to be used in place of the attendant's data in the AMA Record.

If this field is "Y", then RLT TYPE must not be "NONE" on the associated TKGRP form.

2.22 VOICE ETE

Description: This field is used to enter the End-to-End Q.931 Connectivity option for voice calls using this ARS feature.

Required Field.
Default: ANY
Valid Entries:

Valid VOICE ETE Entries

Entry	Definition
ANY	The call routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. However, if a PRI trunk is not available, the route will fail.

Data Rules:

When this feature is assigned to a non-PRI trunk (the TRKCLS has a value other than "EDSL" or "EDSLHM" on the associated TKGRP form), this field must be set to "ANY".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

2.23 DATA ETE

Description: This field is used to enter the End-to-End Q.931 Connectivity option for data calls using this ARS feature.

Required Field.
Default: ANY
Valid Entries:

Valid DATA ETE Entries

Entry	Definition
ANY	The Call Routes over any available trunk.
PREF	PRI trunks are preferred to route the call. However, if a PRI trunk is not available, then any trunk will be used.
REQ	PRI trunks are required to route the call. However, if a PRI trunk is not available, the route will fail.

Data Rules:

When CSD ARS GRP is left blank, then DATA ETE must contain the default value of "ANY".

When this feature is assigned to a non-PRI trunk (the TRKCLS has a value other than "EDSL" or "EDSLHM" on the associated TKGRP form) this field must be set to "ANY".

If "REQ" is entered, then there must be PRI trunks in the route list. Also, route selection will be enhanced if the PRIs appear earlier in the route list.

```
arstpa                           5ESS Switch             _
(5608-5)                  OFFICE DATA ADMINISTRATION
            AUTOMATIC ROUTE SELECTION TRUNK (TGN/MEMB) PARAMETERS

 * 1. TGN           1100                    12. TCM IN          _
 * 2. MEMB          1205                    13. TCM OUT         _
 * 3. FEATURE       ARS1                    14. DEFAULT TCM     ___
                                            15. QUEUE ALLOWED   N
   4. CSV ARS GRP   ARS1                    16. PRIORITY QUEUE  N
   5. CSD ARS GRP   ARSD                    17. DIAL PLAN       ____
   6. TONE TYPE     NONE                    18. RLT FRL IND     N
   7. FRL LINE      16                      19. RLT AMA IND     N
```

```
   8. USE ALT FRL   N                    20. VOICE ETE       ANY
   9. ARS SI        01                   21. DATA ETE        ANY
  10. ALW MDR RAO   N
  11. PRIVATE DN    _______
```

Figure 1 SAMPLE ARSTPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
arstpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5608-5)     AUTOMATIC ROUTE SELECTION TRUNK (TGN/MEMB) PARAMETERS

*1. TGN     ____              12. TCM IN        _
*2. MEMB    ____              13. TCM OUT       _
*3. FEATURE ________          14. DEFAULT TCM   __
                              15. QUEUE ALLOWED  N
 4. CSV ARS GRP ________      16. PRIORITY QUEUE N
 5. CSD ARS GRP ________      17. DIAL PLAN      ___
 6. TONE TYPE   NONE          18. RLT FRL IND    N
 7. FRL LINE    16            19. RLT AMA IND    N
 8. USE ALT FRL N             20. VOICE ETE      ANY
 9. ARS SI      01            21. DATA ETE       ANY
10. ALW MDR RAO N
11. PRIV DN     __________
```

Figure 2 SAMPLE ARSTPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9F: 5608-6 RECORD
AUTOMATIC ROUTE SELECTION
GROUP SCREENING FORM - ARSSCRN

1. GENERAL

The 5608-6 Record is available with 5E3 and later Software Releases and is used to determine the initial route of a route list for ARS (Automatic Route Selection) groups.

The ARSSCRN forms are used for all ARS Groups. Digit analysis for the ARS calls may be provided by either the originator's ODP (Office Dialing Plan) or a PNDP (Private Network Dialing Plan). When the ODP is used, the ARS INDEX used as one of the keys into the ARS Screening data is the Route Index normally found in the LDIT form (5300-3/5 Record). When a PNDP is used, the ARS INDEX is a result of a call defined as "ON" or "OFF" in the PNDP form (5608-10/11 Record).

In addition to the ARS GROUP NAME and ARS INDEX, the third key to this data is the ARS SCREENING INDEX. The ARS Screening Index is an ARS terminal parameter which, like the ARS Group Name, may be defined as a default parameter on the ARSFD form (5608-1B Record) or on an individual terminal basis on the ARSLPA (5608-3 Record), ARSMPA (5608-4 Record), or ARSTPA form (5608-5 Record).

This ARS Screening Index is similar to the Screening Indexes used in the POTS application on the RAR form (5301 Record). It provides the ability to subdivide the ARS Group so that different treatments may be given to groups of terminals within the ARS Group which all use the same common ARS Group data and digit analysis.

This may be used to allow a set of terminals within the ARS Group to route with an initial route (an MC Route Index) of a route list while another set of terminals may be "routed" to an announcement, reorder tone or to their attendant. To accomplish this, the first set of terminals could be defined with ARS Screening Index 1 and the second set, ARS Screening Index 2. Then ARSSCRN forms would be required for all ARS INDEX values for the ARS Group with both 1 and 2 indicated for the ARS SCREENING INDEX. The desired routing treatment would then be indicated in the appropriate Pattern Group entry.

Please note, the treatments here are similar to those specified in BAD NUMBER TREATMENT on the ARSFD form (5608-1A Record). These error treatments will be used when the ARS number is being initially analyzed in the ODP. However, if this error treatment is inappropriate for some calls, a different treatment can be given as described above.

When a PNDP is used to analyze the ARS numbers, BAD NUMBER TREATMENT will not be used. If the result of PNDP is an ARS Index, the ARS Index must be defined here on the ARSSCRN form for every ARS Screening Index of the group.

ARS Screening Indexes may also be used so that different subsets of the ARS Group use different route lists. This may be useful for satellite route avoidance. That is, one set of terminals in the ARS Group may not be allowed to route over a Trunk Group which is a satellite route. Another set or sets of the ARS Group do use the satellite route as a first or early route in the route list. FRL (Facility Restriction Level) would not be appropriate in this case because the first set would be blocked before subsequent routes which are allowed.

The ARS Group may be divided into a maximum of 16 subgroups by using ARS Screening Indexes 1 to 16. These indexes should not be confused with the FRL of the terminal and route. Even though they have the same range of values, they are independent uses.

In addition to an error treatment or an initial MC Route of a route list, the ARSSCRN form may also specify an Office Code when the call should be routed to a line in this office. This type of routing may be used when the ARS call that is being translated is in the on-network (private) format of RNX-XXXX and the number is a line defined in this office as NXX-XXXX. This form may provide that transition. The RNX would be translated in a PNDP with a unique ARS Index so this form may specify the Office Code (NXX) that is defined on the NOC form (5501 Record). The NXX plus the last four digits collected will be used to enter Directory Number translations for line terminations.

Each ARS Group may be defined with 1 to 6 Pattern Groups as specified on the ARSGPA form (5608-2 Record) in NUMBER PATTERN GROUPS ALLOWED. However, only one Pattern Group is active at any given point in time. During call processing, the active Pattern Group is used as the fourth Key to determine the route to be used. Therefore, for each allowed Pattern Group, an entry should be made on each ARSSCRN form. For example, if an ARS Group has four Pattern Groups, a route should be specified in PATTERN GROUP row values of 1 through 4 on every ARSSCRN form input for the ARS Group. If the ARS Group uses only one Pattern Group (which by definition is always active), then the ARSSCRN forms will be defined with entries only in the first row under ARS PATTERN GROUP ROUTES.

1.1 Recent Change View

This corresponding Recent Change view for this form is RC/V 10.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * ARS GROUP NAME

Description: Enter the name of the ARS Group.
Valid Entries: 1 - 8 characters

Data Rules:

The ARS GROUP NAME must be defined on an ARSGPA form (5608-2 Record).

The maximum quantity of ARS Groups in an office is 200.

2.3 * ARS INDEX

Description: Enter the ARS Index. If the Office Dialing Plan is used to analyze the initial ARS dialed or inpulsed digits, then this entry will be a POTS Route Index normally found in LDIT. If a Private Network Dialing Plan is used to analyze the ARS number, then this entry will be an index used by the PNDP to point to the appropriate data in this form in the form of an ARS INDEX.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

2.4 * ARS SCREENING INDEX

Description: Enter the ARS Screening Index.
Default: 1
Valid Entries: 1 - 16

Data Rules:

For each ARS Screening Index assigned to the ARS terminals with the same ARS Group Name, a separate ARSSCRN form must be input.

2.5 CHARGE INDEX

Description: Enter the Charge Index to be used when terminating to a line in this office.
Valid Entries: 1 - 2047

Data Rules:

If a value is entered here, it must be defined on the CGIDX form (5302-1 Record).

If any ROUTE TYPE on this form equals "MCTRAN", this field must be entered; otherwise, leave this field blank.

ARS PATTERN GROUP ROUTES

This group of fields (Section 2.6 - Section 2.9) defines the appropriate ROUTE TYPE (and MCRTI and NXX values as required) for each Pattern Group used for this ARS Group. Each Pattern Group is represented by a row 1 through 6. The rows must be entered in consecutive order and may not exceed the value entered in NUMBER PATTERN GROUPS ALLOWED which is specified on the ARSGPA form (5608-2 Record).

2.6 ROUTE TYPE

Description: Enter the Route Type for each allowed Pattern Group 1 - 6.

Valid ROUTE TYPE Entries

Entry	Definition
ANNCE	Used to route the call to the announcement specified on the ARSGPA form (5608-2 Record) in the field BAD NUMBER ANNOUNCEMENT RTI.
ATDN	Used to route the call to the Attendant of this originator's Terminal Group. If "ATDN" is used, all terminals which access this ARSSCRN form, must be assigned to a Terminal Group ID via the TGSR feature and the Terminal Group must have an Attendant Telephone Number defined on the TGATTD form (5611 Record).
MC	Used to route the call via an MC route list. The first route in the route list is specified in MCRTI.
MCTRAN	Used to route the call to a line in this office. The office code is specified in NXX.
REORDER	Used to route the call to Reorder tone.

2.7 MCRTI

Description: Enter the MC Route Index for each allowed Pattern Group 1 - 6 where ROUTE TYPE equals "MC".
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

Any value entered here must be defined on the MCRTIDX form (5304 Record) as the first route in the route list. Subsequent (or overflow) routes are also defined on the MCRTIDX form. Additionally, on the MCRTIDX form, MC ROUTE TYPE must be set to "MC", "SFG" or "PVN".

2.8 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later
Valid Entries: 200 - 999

2.9 NXX

Description: Enter the Office Code for each allowed Pattern Group 1 - 6 where ROUTE TYPE equals "MCTRAN".
Valid Entries: 3 digits

Data Rules:

Any value entered here must be defined on the NOC form (5501 Record).

For 5E12 and later, when NXX (Office Code) and/or NPA/NXX combinations are assigned on the ARSSCRN form, they must be defined on the NOC form.

For 5E12 and later, if the ARSSCRN forms have a "PATTERN GROUP ROUTES.NXX" defined in the rows indicated by PATTERN GROUP and there are multiple NOC forms with the same value for NXX, "PATTERN GROUP ROUTES.NPA" will also have to be defined in the same row on the ARSSCRN form.

```
arsscrn                          5ESS Switch             _
(5608-6)                 OFFICE DATA ADMINISTRATION
                   AUTOMATIC ROUTE SELECTION GROUP SCREENING

* 1. ARS GROUP NAME       XAJA
* 2. ARS INDEX            0023
* 3. ARS SCREENING INDEX  01
  4. CHARGE INDEX         _____


         5. ARS PATTERN GROUP ROUTES

   PATTERN     ROUTE TYPE     MCRTI     NXX
    GROUP
      1         MC            0023      ___
      2         MC            0024      ___
      3         ANNCE         _____     ___
      4         ATDN          _____     ___
      5         ________      _____     ___
      6         ________      _____     ___
```

Figure 1 SAMPLE ARSSCRN FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
arsscrn                           5ESS Switch            _
                         OFFICE DATA ADMINISTRATION
(5608-6)                  AUTOMATIC ROUTE SELECTION GROUP SCREENING
```

```
*1. ARS GROUP NAME      ________    5. ARS PATTERN GROUP ROUTES (ROUTE)
*2. ARS INDEX           ____        PATTERN
*3. ARS SCREENING INDEX 01          GROUP   ROUTE TYPE MCRTI  NPA   NXX
 4. CHARGE INDEX        ____           1     _______   ____   ___   ___
                                       2     _______   ____   ___   ___
                                       3     _______   ____   ___   ___
                                       4     _______   ____   ___   ___
                                       5     _______   ____   ___   ___
                                       6     _______   ____   ___   ___
```

Figure 2 SAMPLE ARSSCRN FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9G: 5608-7 RECORD
AUTOMATIC ROUTE SELECTION ALTERNATE FACILITY RESTRICTION LEVELS FORM - ARSFRL

1. GENERAL

The 5608-7 Record is available with 5E3 and later Software Releases. It is used to define the set of FRLs (Facility Restriction Levels) to use for an ARS (Automatic Route Selection) Group.

This form must be submitted for an ARS Group when the ARSGPA form (5608-2 Record) is defined with ALW ALT FRL equal to "Y".

The FRL of the ARS originating terminal is defined as a default parameter of the ARSFD form (5608-1B Record), or on an individual terminal basis as a parameter on the ARSLPA, ARSMPA and ARSTPA forms (5608-3, 5608-4 and 5608-5 Records, respectively). In the case of an originating trunk, the FRL may have been derived from an incoming TCM (Traveling Class Mark). See TCM IN on the ARSFD form or ARSTPA form. When a two-digit TCM is received, it becomes the FRL for that origination. When a one-digit TCM is received, it must be converted to the "two-digit FRL format on the ARSTCM form (5608-8 Record).

The originating terminal FRL, sometimes labeled the FRL of the call, is used during call processing to determine if the originator has sufficient permission to use an ARS route. The route FRL is specified for each route in an ARS route list on the MCRTIDX form (5304 Record) as FRL GROUP. The terminal FRL must be equal to or greater than the route FRL to use the route.

If a PNDP (Private Network Dialing Plan) is used to analyze and collect the ARS digits, an FRL may also be specified on calls that escape to the ODP. Because the call is escaping ARS, an MC Route Index will not be used on the call and, therefore, the FRL Group cannot be used. The FRL specified on the PNDP form (5608-10/11 Records) takes the place of the route FRL and may be used, based on the dialed (or inpulsed) digit string, to require sufficient FRL permission to use the ODP.

If the terminal FRL is less than the FRL of the route, then there is insufficient permission. At this time during call processing, an Authorization Code may be entered to raise the terminal FRL if the originating terminal has an appropriate Authorization Code feature. See the ATHGPA form (5620-2 Record), for requirements on changing the FRL value associated with terminals in an Authorization Code Group. If an Authorization Code is entered to increase the FRL of the call, additional routes in the ARS route list may be used by increasing the level of permission of the terminal.

If no route is available in the route list, either because of insufficient FRL or all the routes in the route list are busy, queuing for the first route in the route list will be invoked. This first route must have a Modular Queuing feature assigned. If the route is a Trunk Group, see the TKGRP form (5202-3 Record), and if an SFG (Simulated Facility Group), see the PFASFG form (5609-3 Record). Queuing will not be invoked if the originating terminal has the ARS parameter, QUEUE ALLOWED, equal to "N". When all possibilities are exhausted, the terminal is given Reorder tone.

The originating terminal FRL, however, may be changed when Alternate FRL is invoked. This may be done either via a dialed code or by TOD (Time Of Day). A code defined in the IDPDCA form (5601-1/2 Record), or in the PDIT form (5300-2 Record), with an action of FRLALT invokes this table of Alternate FRLs. For each possible originating FRL value of 1 to 16, there is a corresponding alternate FRL of 1 to 16. This form then may be used to either raise or lower the FRL of the originating terminal as desired for each FRL value. While the alternate FRL table is in effect, the alternate FRL, instead of the terminal FRL, will be used on origination. The alternate FRL then interacts with Authorization Code and Queuing as discussed above. The original FRLs of the terminals are restored by a code defined with an action of "FRLMAIN". These actions may be automatically invoked via Time Of Day on the TODCD form (5610-2 Record).

If the originating terminal has been defined with the ARS parameter, USE ALT FRL, equal to "N", then the terminal's FRL value will not be changed even when the Alternate FRL table is invoked.

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.8.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * ARS GROUP NAME

Description: Enter the name of the ARS Group. The maximum quantity of ARS Groups in an office is 200.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The group name must be defined on an ARSGPA form (5608-2 Record) with the associated ALW ALT FRL field entered as "Y".

ALTERNATE FACILITY RESTRICTION LEVELS

Fields 2.3 - Section 2.19 are used to enter the Alternate FRLs. For each terminal FRL indicated by ALTFRL x, where x equals 1 through 16, enter the corresponding Alternate FRL to be used when this Alternate FRL table is active.

2.3 ALTFRL 0

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 0.

Software Release: 5E7 and later
Required Field.
Default: 0
Valid Entries: 0 - 16

2.4 ALTFRL 1

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 1.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.5 ALTFRL 2

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 2.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.6 ALTFRL 3

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 3.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.7 ALTFRL 4

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 4.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.8 ALTFRL 5

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 5.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.9 ALTFRL 6

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 6.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.10 ALTFRL 7

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 7.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.11 ALTFRL 8

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 8.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.12 ALTFRL 9

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 9.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.13 ALTFRL 10

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 10.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.14 ALTFRL 11

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 11.

Required Field.
Default: 1
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.15 ALTFRL 12

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 12.

Required Field.
Default: 1
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.16 ALTFRL 13

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 13.

Required Field.
Default: 1
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.17 ALTFRL 14

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 14.

Required Field.
Default: 1
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.18 ALTFRL 15

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 15.

Required Field.
Default: 1
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.19 ALTFRL 16

Description: Enter the Alternate FRL to be used when the assigned terminal FRL is 16.

Required Field.
Default: 1
Valid Entries:
For 5E6 and earlier: 1 - 16

For 5E7 and later: 0 - 16

```
arsfrl                            5ESS Switch             _
(5608-7)                   OFFICE DATA ADMINISTRATION
                  ARS ALTERNATE FACILITY RESTRICTION LEVELS


* 1. ARS GROUP NAME  ABC


  ALTERNATE FACILITY RESTRICTION LEVELS

  2. ALTFRL 1  01      10. ALTFRL 9   01
  3. ALTFRL 2  01      11. ALTFRL 10  01
  4. ALTFRL 3  01      12. ALTFRL 11  01
  5. ALTFRL 4  01      13. ALTFRL 12  01
  6. ALTFRL 5  01      14. ALTFRL 13  01
  7. ALTFRL 6  01      15. ALTFRL 14  01
  8. ALTFRL 7  01      16. ALTFRL 15  01
  9. ALTFRL 8  01      17. ALTFRL 16  01
```

Figure 1 SAMPLE ARSFRL FORM   5E6 AND EARLIER SOFTWARE RELEASES

```
arsfrl                            5ESS Switch             _
(5608-7)                   OFFICE DATA ADMINISTRATION
                  ARS ALTERNATE FACILITY RESTRICTION LEVELS

* 1. ARS GROUP NAME  ABC

   2. ALTFRL 0 00      12. ALTFRL 10  01
   3. ALTFRL 1 01      13. ALTFRL 11  01
   4. ALTFRL 2 01      14. ALTFRL 12  01
   5. ALTFRL 3 01      15. ALTFRL 13  01
   6. ALTFRL 4 01      16. ALTFRL 14  01
   7. ALTFRL 5 01      17. ALTFRL 15  01
   8. ALTFRL 6 01      18. ALTFRL 16  01
   9. ALTFRL 7 01
  10. ALTFRL 8 01
  11. ALTFRL 9 01
```

Figure 2 SAMPLE ARSFRL FORM   5E7 AND LATER SOFTWARE RELEASES

SEC. 9H: 5608-8 RECORD AUTOMATIC ROUTE SELECTION TRAVELING CLASS MARK CONVERSION TABLE FORM - ARSTCM

1. GENERAL

The 5608-8 Record is available with 5E3 and later Software Releases. It is used to input the FRL (Facility Restriction Level) to be used during call processing on ARS (Automatic Route Selection) calls which originate on private trunks sending a "one-digit TCM (Traveling Class Mark).

This conversion may be needed when communicating with other switching systems because some use a TCM (and FRL) range of 0 to 7. The 5ESS Switch uses an FRL range of 1 to 16.

The ARS feature assigned to the private trunk must have TCM OPTION equal to "Y" to enable this conversion information to be accessed. This information, however, is associated with the ARS Group. One form is input for the group and is used whenever the trunks in the ARS Group are defined with TCM IN equal to 1, indicating a "one-digit TCM is expected on the trunk. The TCM digit is appended to the incoming digit string. A PNDP (Private Network Dialing Plan) must be used to translate the digits. See the PNDP form (5608-10/11 Records).

For each digit 0 through 7, a direct conversion is input on this form to the corresponding "two-digit FRL value.

An inverse of this direct conversion is also automatically built in the database to provide conversion from the 5ESS Switch two-digit FRL to a one-digit TCM. This one-digit TCM will be used on any trunk in this ARS Group that is defined with the ARS parameter, TCM OUT, equal to 1, indicating that a one-digit TCM is expected to be outpulsed on the trunk.

Because the values input of this form are used for conversion on both one-digit TCM to two-digit FRL and "two-digit FRL to one digit TCM, this form is required when any trunk in the ARS Group has either TCM IN or TCM OUT equal to 1.

The conversion for two-digit FRL to one-digit TCM is not always straightforward. The value entered for any TCM will reverse that FRL to the TCM. However, when there are nonconsecutive values entered, any FRL that falls in between will be given the higher value. The following table illustrates this conversion based on the values entered in Figure 2. Note that the values entered in the form must be of increasing numeric value.

2-DIGIT FRL TO 1-DIGIT TCM

Entry	Definition	Entry	Definition
1	0	9	3
2	0	10	4
3	0	11	5
4	0	12	6
5	0	13	7
6	1	14	7
7	2	15	7
8	2	16	7

1.1 Recent Change View

The corresponding Recent Change View for this form is 10.9.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 *ARS GROUP NAME

Description: Enter the name of the ARS Group. The maximum quantity of ARS Groups in an office is 200.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined on an ARSGPA Form (5608-2 Record).

TRAVELING CLASS MARK CONVERSION TABLE

Fields Section 2.3 - Section 2.10 refer to the construction of a TCM Table. For each TCM of 0 - 7, enter the corresponding two-digit FRL that it should be converted to. An inverse of this table (from the two-digit FRL to the TCM 0 - 7) will be automatically built in the database.

2.3 TCM 0

Description: Enter the "two-digit FRL that corresponds to TCM 0.

Required Field.
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.4 TCM 1

Description: Enter the "two-digit FRL that corresponds to TCM 1.

Required Field.
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.5 TCM 2

Description: Enter the "two-digit FRL that corresponds to TCM 2.

Required Field.
Valid Entries:
  For 5E6 and earlier: 1 - 16
  For 5E7 and later: 0 - 16

2.6 TCM 3

Description: Enter the "two-digit FRL that corresponds to TCM 3.

Required Field.

Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.7 TCM 4

Description: Enter the "two-digit FRL that corresponds to TCM 4.

Required Field.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.8 TCM 5

Description: Enter the "two-digit FRL that corresponds to TCM 5.

Required Field.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.9 TCM 6

Description: Enter the "two-digit FRL that corresponds to TCM 6.

Required Field.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

2.10 TCM 7

Description: Enter the "two-digit FRL that corresponds to TCM 7.

Required Field.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

```
arstcm                 5ESS OFFICE DATA ADMINISTRATION   _
(5608-8)                  AUTOMATIC ROUTE SELECTION
                  TRAVELING CLASS MARK CONVERSION TABLE FORM

* 1. ARS GROUP NAME  NSC

 TRAVELING CLASS MARK
```

```
   CONVERSION TABLE

  2. TCM 0  05
  3. TCM 1  06
  4. TCM 2  08
  5. TCM 3  09
  6. TCM 4  10
  7. TCM 5  11
  8. TCM 6  12
  9. TCM 7  13
```

Figure 1 SAMPLE ARSTCM FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 9I: 5608-9 RECORD
AUTOMATIC ROUTE SELECTION
SEGMENTED SIGNALING FORM - ARSSIG

1. GENERAL

The 5608-9 Record is available with 5E3 and later Software Releases. It is used to specify Segmented Signaling, if required, when outpulsing on an ARS (Automatic Route Selection) private facility.

Segmented signaling will be required on a cut-through route to a PBX if the PBX requires incoming digits to be on a phased basis. That is, the 5ESS Switch can be specified to outpulse some digits, pause for some seconds and then outpulse additional digits. From one to four pairs of values for PAUSE and POSITION are submitted on this form so that the specified pause in seconds will be taken before the digit position. By setting the position to 1, this means that the first (or only) pause will be taken before any digits are outpulsed.

This form must be entered for any MC Route Index that is defined with SEGMENTED SIGNALING equal to "Y". See the MCRTIDX form (5304 Record). Additionally, the Trunk Group specified with this indicator on the MCRTIDX form must be defined on the TKGRP form (5202 Record) with CUT THRU equal to "Y".

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.7.

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 * ARS GROUP NAME

Description: Enter the name of the ARS Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The ARS GROUP NAME must be defined on an ARSGPA form (5608-2 Record). The maximum quantity of ARS Groups in an office is 200.

2.3 * MC ROUTE INDEX

Description: Enter the MC Route Index.

Required Field.
Valid Entries:
- For 5E10 and earlier: 1 - 3617
- For 5E11 and later: 1 - 4095

Data Rules:

The MC ROUTE INDEX must be defined on the MCRTIDX form (5304 Record) with SEGMENTED SIGNALING equal to "Y" and is used by this ARS Group.

SEGMENTED SIGNALING LIST

Enter up to four pairs of PAUSE and POSITION, (fields Section 2.4 - Section 2.5). Each pair must be sequentially entered such that the position values are in increasing numeric order. Values must be submitted in pairs and at least one pair must be specified.

2.4 PAUSE

Description: Enter the pause in seconds to be taken before the digit position specified in POSITION.
Valid Entries: 1 - 10

2.5 POSITION

Description: Enter the digit position of the outpulsing sequence where the pause specified in this pair is to be done. Indicate the digit the pause comes before.
Valid Entries: 1 - 15

```
arssig                           5ESS Switch            _
(5608-9)                  OFFICE DATA ADMINISTRATION
                AUTOMATIC ROUTE SELECTION SEGMENTED SIGNALING



* 1. ARS GROUP NAME  ABC
* 2. MC ROUTE INDEX  0129


  3. SEGMENTED SIGNALING LIST

  row   PAUSE   POSITION

   01    10         1
   02    05         4
   03    __        __
   04    __        __
```

Figure 1 SAMPLE ARSSIG FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 9J: 5608-10/11 RECORDS
PRIVATE NETWORK DIALING PLAN FORM - PNDP

1. GENERAL

The 5608-10/11 Records are available with 5E3 and later Software Releases. They are used to provide private digit analysis of both public and private numbers.

PNDPs (Private Network Dialing Plans) may be optionally used for subscribers who are assigned an ARS (Automatic Route Selection) BRCS feature.

If the ARS feature assigned to the terminal is defined on the ARSFD form (5609-1 Record), with ENTRY equal to "AUTO", then the dialing plan used to analyze ARS digits is specified as a default parameter of the ARSFD form or as a parameter of the ARSLPA, ARSMPA or ARSTPA forms (5608-3, 5608-4 or 5608-5 Records), respectively. With this type of ARS feature, exactly one dialing plan is specified. The choices are ODP (the Office Dialing Plan of the originator), 1 (PNDP 1) or 2 (PNDP 2).

If the ARS feature is defined with ENTRY equal to "CODE", the action defined for the access code will indicate which dialing plan to use when interpreting ARS digits. The ARS access code or codes may be defined on the PDIT form (5300-2 Record), or on the IDPDCA form (5601-1/2 Records). An action of "ARSUSE" indicates that the Office Dialing Plan of the originator should be used while the actions "AR1USE" and "ARS2USE" indicate that Private Network Dialing Plan 1 or 2, respectively, should be used. With this type of ARS feature, more than one dialing plan may be used by specifying unique access codes with the desired actions. If two access codes and dialing plans are used, typically, one dialing plan is used for off-network (public) numbers and one dialing plan is used for on-network (private) numbers.

Each ARS Group and PNDP combination must be entered on a PNINFO form (5608-12 Record) to specify the error treatment to be given when the ARS digits are not found in the associated PNDP. (This error treatment does not apply to partial dial. If the caller dials an incomplete digit string, the call will route according to the partial dial error treatment specified for the office.)

Caution should be exercised in defining both the dialed digits in the PNDP and selecting the appropriate error treatment. Any call which results in an error treatment of "USEOFFC" or digits explicitly defined in a PNDP with a Call Type of "USEOFFC" must be able to succeed through the originator's Office Dialing Plan and normal screening on the Rate and Route. It is probably never appropriate to allow on-network numbers to escape to POTS in this manner. Care still needs to be exercised with off-network numbers because of the 1 prefix and Home NPA. If the 1 has not been dialed but is required in LDIT, (5300-3/5 Records), because of prefix resolved conflicts or is required on the RAR form (5301 Record), the dialed digits should be defined in the PNDP with a Call Type of OFF and an ARS Index. This information, when passed back to ARS, should result in an MC Route Index where the 1 can be prefixed. Similarly, the Home NPA, when dialed but inappropriate for the LDIT, can be deleted on an MC Route Index.

Generally, all digits dialed when ARS is invoked and a PNDP is used are treated equally. Special treatment for digits used as prefixes is not provided with a PNDP. In cases where a 1 is included in the digits dialed by the subscriber, it needs to be included in the INCOMING DIGITS of the PNDP. When ARS subsequently routes these calls, if the 1 is inappropriate for outpulsing on any of the routes, it must be deleted on the appropriate MC Route Indexes.

1.1 Common Control Switching Arrangement

There is a special association of PNDP with CCSA (Common Control Switching Arrangement). When a terminal is assigned an ARS Feature with CCSA LIMITATION equal to YES and the call is being interpreted in

Private Network Dialing Plan 1, the call will be subject to SFG (Simulated Facility Group) limits and special billing. CCSA SFGs may be specified for calls originating and/or terminating to the CCSA group on the PFATG form (5609-2 Record). When the call is recognized as a CCSA call (i.e., CCSA LIMITATION and PNDP 1), and the call is being routed off the private network, a special AMA billing record will be produced with an AMA Call Type of CCSAS, call code 21. See the AMACT form (5506 Record). The call is determined to be an off-network call if it completes to a service class other than a Private Facility trunk (e.g., "PF", "PFLASH", "PFITT"). The CCSAS AMA record will be made in addition to the public billing record specified for the off-network call by the Charge Index found during call processing. If it is desired to inhibit this private billing record for a terminal, the ARS parameter, ALW MDR RAO should equal "N".

1.2 Traveling Class Mark

When a TCM (Traveling Class Mark) is expected on an incoming ARS trunk, a PNDP must be used for digit interpretation. The PNDP will be informed by ARS that one or two digits are expected and PNDP will collect these digits after the regular PNDP digits are analyzed and collected. The NBR DIGITS field on this form should not include the count of TCM digits.

1.3 Selective Destination Screening

SDS (Selective Destination Screening) is a special digit analysis routine provided with a PNDP to give unique treatment to some codes with fewer form instances to input and, therefore, less memory used. An example may help to illustrate its use. The ARS business customer desires all calls dialed with a given NPA, for example 212, to route via an ARS route sequence except certain NXXs, 555 and 976. Calls dialed 212-555 + 4 digits or 212-976 + 4 digits are to be routed to an announcement. Three PNDP forms will be input for this case. 212 is entered as usual, in this case as a "10-digit, "off-net number with the normal ARS Index. 212555 and 212976 are each entered on separate forms similar to the 212 entry except a unique ARS Index is entered and SELECT DEST SCRN is equal to "Y". During digit analysis, the results indicated by the 212 entry will be used unless the next three digits are 555 or 976; the information entered with 212555 or 212976 would then override the original 212 information. In any case, the resulting data is passed to ARS. The unique treatments are then accomplished through ARS screening and route sequences.

1.4 Off-network and On-network Number Translation

The Private Network Dialing Plan has the ability to translate both off-network numbers and on-network numbers in one PNDP or two. If the subscriber is required to always dial an NPA, including the Home NPA, for off-network numbers, then one PNDP could be used because the two types of numbers could be distinguished. To allow the subscribers to dial off-network numbers within the Home NPA on a "seven-digit basis, two PNDPs should be used (with unique access codes) so the "seven-digit off-network numbers do not conflict with "seven-digit "on-network numbers.

Even when the ARS has a private network with on-network digits, the originating subscriber may be allowed to dial the public off-network number. Translating the appropriate digits with a Call Type of "OFFON" causes the digits to be converted by the PNOFFON form (5608-13 Record), to the on-network number which is subsequently retranslated in the specified PNDP.

1.5 On-network to Off-network Number Conversion

On-network to off-network number conversion is also provided totally with translations, however, it is not a direct result of digit analysis in the PNDP. When the PNDP passes information about an on-network call to ARS, it includes an indication that the current digit string is an on-network number (either because that's what was dialed or it was involved in an off to on conversion). When ARS determines that the route to be used requires an off-network number, such as for OUTWATS or overflow to DDD, then ARS will request an on-network to off-network conversion via the PNONOFF form (5608-14 Record). In this case, the route has already been determined so subsequent translations of the converted number is not required in the PNDP.

1.6 Account Code Digits

A PNDP also provides for Account Code Lead digit or digits if the ARS subscribers also have an Account Code BRCS feature assigned. Any digit or digits may be translated in the PNDP with a Call Type of ACLD provided the digit sequence is unique and unambiguous within the PNDP. During PNDP digit analysis when the result is ACLD, the first digit is deleted and subsequent digits are collected under the Account Code feature. After the Account Code has been collected, the Account Code feature will return control of subsequent digit analysis to PNDP.

1.7 Recent Change View

The corresponding Recent Change View for this form is 9.21.

2. FORM ENTRIES - 5608-10 RECORD

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the office name on each record.

2.2 * ARS GROUP NAME

Description: This field is used to enter the name of the ARS Group. The maximum number of ARS Groups in an office is 200.
Valid Entries: 1 - 8 characters

Data Rules:

The valid entries are defined an ARSGPA form (5608-2 Record).

2.3 * DIAL PLAN

Description: This field is used to enter the Private Network Dialing Plan number.

Valid DIAL PLAN Entries

Entry	Definition
1	Digits will be interpreted in PNDP 1 (Private Network Dialing Plan).
2	Digits will be interpreted in PNDP 2 (Private Network Dialing Plan).

Data Rules:

Each unique combination of Dial Plan and ARS Group Name must also be entered on a PNINFO form (5608-12 Record), to specify the treatment to give the call when the digit sequence is not found in the PNDP.

2.4 * INCOMING DIGITS

Description: This field is used to enter the dialed ARS number to be interpreted. The first digit may be *, # or 0-9. All digits except the first digit must be 0-9. There must be a space before or after the * and # symbols in order for them to be entered alone.
Valid Entries:
For 5E9(2) and earlier: 1 - 15 characters
For 5E10 and later: 1 - 18 characters

Data Rules:

When the INCOMING DIGITS entered on this form are a beginning substring of another PNDP form with the same ARS GROUP NAME and DIAL PLAN number, then either the PNDP form with the shorter INCOMING DIGIT string must enter the number of digits in its INCOMING DIGIT string in the NBR DIGITS field or the PNDP form with the longer INCOMING DIGIT string entered must have "Y" entered in the SELECT DEST SCRN field.

For 5E10 and later, the number of characters entered in this field cannot be greater than 15 unless the 15 Digit IDDD (International Direct Distance Dialing) secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.5 CALL TYPE

Description: This field is used to enter the Call Type.

Required Field.

Valid CALL TYPE Entries

Entry	Definition
ACLD	Account Code Lead Digit.
CONFLCT	Conflict to be resolved in 5608-11 Record.
DARS	Deactivate ARS for the current call, used for AUTO entry ARS without an IDP
NSC	Network Service Code.
OFF	Off-network number.
OFFON	Off-network number requiring conversion to an on-network number.
ON	On-network number.
USEOFFC	Use the originator's office Dialing Plan instead of ARS.

2.6 NBR DIGITS

Description: This field is used, for Call Types other than "CONFLCT", to enter the total number of digits expected in the PNDP form, both analyzed and collected. Do not include the ARS access code (if associated with a code entry ARS feature) or Traveling Class Marks which may be received as appended digits to the digit string when inpulsed on some trunks.

When a TCM (Traveling Class Mark) is expected on an incoming ARS trunk, a PNDP must be used for digit interpretation. The PNDP will be informed by ARS that one or two digits are expected and PNDP will collect these digits after the regular PNDP digits are analyzed and collected. The NBR DIGITS field should not include the count of TCM digits, i.e., only 1 - 14 digits are valid with one digit Traveling Class Marks and only 1 - 13 digits are valid with the two digit TCM.
Valid Entries:

For 5E9(2) and earlier: 1 - 15 digits
For 5E10 and later: 1 - 18 digits

Data Rules:

The number entered must be equal to or greater than the quantity of digits entered in INCOMING DIGITS.

For Call Type "ACLD", the entry must be equal to the quantity of digits specified in INCOMING DIGITS.

For Call Type "CONFLCT", leave this field blank.

For 5E10 and later, this field cannot have a value greater than 15 digits unless the 15 Digit IDDD (International Direct Distance Dialing) secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5713-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.7 ARS INDEX

Description: This field is used, for Call Types "ON" or "OFF", to enter the ARS INDEX. This entry with the ARS Group Name on this view together with the ARS Screening Index of the originating ARS terminal are used to access the ARSSCRN form (5608-6 Record).
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

For all other Call Types, leave this field blank.

2.8 FRL

Description: This field is used to enter an FRL (Facility Restriction Level) for the digit string being interpreted.

The FRL entered here is used similarly to the FRL Group on the MCRTIDX form (5304 Record). That is, the FRL of the originating terminal will be compared to the FRL entered here. If the FRL of the terminal is equal to or greater than this FRL, escape to the ODP as a POTS call will be successful. If the FRL of the terminal is less than this FRL, the call will route to Reorder tone.

The FRL of the terminal may be specified as a parameter of the ARSLPA, ARSMPA or ARSTPA forms (5608-3, 5608-4 or 5608-5 Records), respectively, or as a default parameter of the ARSFD form (5608-1 Record).
Valid Entries: 0 - 16

Data Rules:

For Call Type "USEOFFC", enter a FRL for the digit string being interpreted.

For all other Call Types, leave this field blank.

2.9 ROUTE TYPE

Description: This field is used to enter the Route Type of a call.

Valid ROUTE TYPE Entries

Entry	Definition
MC	The normal route of the call is not to a line in this office.
MCTRAN	The normal route of the call is to a line in this office.

Data Rules:

For Call Types "ON" or "OFF", enter the Route Type of the call. If the normal route of the call is to a line in this office, enter "MCTRAN", otherwise enter "MC". The Route Type may be overridden during call processing as the call is processed by the ARSSCRU form (5608-6 Record).

For all other Call Types, leave this field blank.

2.10 SELECT DEST SCRN

Description: Is this is a Selective Destination Screening entry?

If this entry equals "Y", then there must be another form entered with the same NBR DIGITS where the INCOMING DIGITS are the same as the first digits entered in INCOMING DIGITS on this form. The INCOMING DIGITS on this form must have at least one more digit entered to be analyzed.

The result of entering "Y" in this field indicates that this particular entry should be selectively screened out and given different treatment than indicated by the form with fewer digits in the INCOMING DIGITS. Calls starting with those same fewer INCOMING DIGITS but which don't find another form with digits indicated with Selective Destination Screening will be given the treatment specified by the first form.

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

Data Rules:

For 5E6 and later:
If SELECT DEST SCRN is "Y":

- CALL TYPE must be "ON", "OFF , or "USEOFFC". For all other Call Types this entry must be "N".
- and CALL TYPE is "USEOFFC", then FRL must be known.

SELECT DEST SCRN and ARS SDN cannot both be "Y".

2.11 CONVERSION INDEX

Description: This field is used, for Call Type "OFFON", to enter the Conversion Index. This entry will be used with the ARS Group Name to access the PNOFFON form (5608-13 Record), which will delete and prefix digits, on the off-network number defined here, converting that number to its on-network format. The reconstructed number will then be analyzed in either this PNDP form or another provided for the ARS Group. The Dial Plan used is specified by the PNOFFON form.
Valid Entries: 1 - 65535

Data Rules:

For all other Call Types, leave this field blank.

2.12 NSC DN

Description: This field is used, for Call Type "NSC", to enter the Network Service Code replacement Directory Number. The DN entered will replace the digits analyzed and collected on this form and will be subsequently analyzed in the Dialing Plan specified in NSC DIAL PLAN. The DN may be either a valid on-network or off-network number.
Valid Entries: 7 - 11 digits of 0 - 9

Data Rules:

For all other Call Types, leave this field blank.

2.13 NSC DIAL PLAN

Description: This field is used, for Call Type "NSC", to enter the Private Network Dialing Plan of this ARS Group that will analyze the Directory Number entered in NSC DN.
Valid Entries: 1, 2

Data Rules:

For all other Call Types, leave this field blank.

2.14 ARS SDN

Description: Do the incoming dialed digits (INCOMING DIGITS) represent a Software Defined Network call?

Software Release: 5e6 and later.
Required Field.
Default Value: N
Valid Entries: Y, N

Data Rules:

This field must be set to "N" when CALL TYPE is "CONFLCT".

SELECT DEST SCRN and ARS SDN cannot both be "Y".

2.15 NODAL 56K

Description: Proprietary field.

2.16 REMARKS

Description: This field is used as deemed locally necessary.
Valid Entries: Up to 16 alphanumeric characters

3. FORM ENTRIES - 5608-11 RECORD

3.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the office name on each record.

3.2 * ARS GROUP NAME

Description: This field is used to enter the name of the ARS Group. The name must be the same as that from the corresponding 5608-10 Record entry. This information is not required on the PNDP ODA input form.
Valid Entries: 1 - 8 characters.

3.3 * DIAL PLAN

Description: This field is used to enter the Private Network Dialing Plan number. The number must be the same as that from the corresponding 5608-10 Record entry. This information is not required on the PNDP ODA input form.

Valid DIAL PLAN Entries

Entry	Definition
1	Digits will be interpreted in PNDP 1 (Private Network Dialing Plan).
2	Digits will be interpreted in PNDP 2 (Private Network Dialing Plan).

3.4 * INCOMING DIGITS

Description: This field is used to enter the code for which the conflict exists. This must be the same as the INCOMING DIGITS of the Conflict Code on the 5608-10 Record. This information is not required on the PNDP ODA input form.

CONFLICT RESOLUTION TABLE ENTRIES

The following fields (3.5 - 3.11) comprise the Conflict Resolution Table Entries.

3.5 NBR DIGITS

Description: This field is used to enter the total number of digits expected in the PNDP form, both analyzed and collected.
Valid Entries:
For 5E9(2) and earlier: 1 - 15 digits
For 5E10 and later: 1 - 18 digits

Data Rules:

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5713-1 Record).

3.6 CALL TYPE

Description: This field is used to enter the Call Type.

Valid CALL TYPE Entries

Entry	Definition
DARS	Deactivate ARS for the current call, used for AUTO entry ARS without an IDP.
OFF	Off-network number
OFFON	Off-network number requiring conversion to an on-network number
ON	On-network number
USEOFFC	Use the originator's office Dialing Plan instead of ARS

3.7 ARS INDEX

Description: This field is used, for Call Types "ON" and "OFF", to enter the ARS Index.

This entry with the ARS Group Name on this view together with the ARS Screening Index of the originating ARS terminal are used to access the ARSSCRN form (5608-6 Record).
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

For all other Call Types, leave this field blank.

3.8 FRL

Description: This field is used for Call Type "USEOFFC" to enter a Facility Restriction Level for the digit string being interpreted.

The FRL entered here is used similarly to the FRL GROUP on the MCRTIDX form (5304 Record). That is, the FRL of the originating terminal will be compared to the FRL entered here. If the FRL of the terminal is equal to or greater than this FRL, escape to the ODP as a POTS call will be successful. If the FRL of the terminal is less than this FRL, the call will route to Reorder tone.

The FRL of the terminal may be specified as a parameter of the ARSLPA (5608-3 Record), ARSMPA (5608-4 Record) or ARSTPA forms (5608-5 Records), or as a default parameter of the ARSFD form (5608-1 Record).
Valid Entries: 0 - 16

Data Rules:

For all other Call Types, leave this field blank.

3.9 ROUTE TYPE

Description: This field is used for Call Types "ON" or "OFF" to enter the Route Type of the call. Route Type may be overridden during call processing as the call is processed by the ARSSCRU form (5608-6 Record).

Valid ROUTE TYPE Entries

Entry	Definition
MC	The normal route of the call is not to a line in this office.
MCTRAN	The normal route of the call is to a line in this office.

Data Rules:

For all other Call Types, leave this field blank.

3.10 CONVERSION INDEX

Description: This field is used for Call Type "OFFON" to enter the Conversion Index.

This entry will be used with the ARS Group Name to access the PNOFFON form (5608-13 Record), which will delete and prefix digits, on the off-network number defined here, converting that number to its on-network format. The reconstructed number will then be analyzed in either this PNDP or another provided for the ARS Group. The Dial Plan used is specified by the PNOFFON form.
Valid Entries: 1 - 65535

Data Rules:

For all other Call Types, leave this field blank.

3.11 ARS SDN

Description: Do the incoming dialed digits represented by this CONFLICT RESOLUTION TABLE entry is a Software Defined Network call?

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

3.12 NODAL 56K

Description: Proprietary field.

```
SCREEN 1 OF 2                    5ESS Switch
pndp                      OFFICE DATA ADMINISTRATION
(5608-10/11)             PRIVATE NETWORK DIALING PLAN


* 1. ARS GROUP NAME   ARS001                 13. ARS SDN N
* 2. DIAL PLAN        1                      14. REMARKS NPA NXX CONFLICT
* 3. INCOMING DIGITS  510
  4. CALL TYPE        CONFLCT
  5. NBR DIGITS       __
  6. ARS INDEX        ____
  7. FRL              __
  8. ROUTE TYPE       ______
  9. SELECT DEST SCRN N
 10. CONVERSION INDEX _____
 11. NSC DN           ___________
 12. NSC DIAL PLAN    _
```

```
SCREEN 2 OF 2                    5ESS Switch             _
pndp                      OFFICE DATA ADMINISTRATION
(5608-10/11)             PRIVATE NETWORK DIALING PLAN

                    15. CONFLICT RESOLUTION TABLE ENTRIES

Row   NBR        CALL        ARS      FRL     ROUTE     CONVERSION   ARS
      DIGITS     TYPE        INDEX            TYPE      INDEX        SDN
 1.     07       OFF         0023     __      MC          _____       _
 2.     10       OFFON       ____     __      ______          3       _
 3.     __       _______     ____     __      ______      _____       _
 4.     __       _______     ____     __      ______      _____       _
 5.     __       _______     ____     __      ______      _____       _
 6.     __       _______     ____     __      ______      _____       _
 7.     __       _______     ____     __      ______      _____       _
 8.     __       _______     ____     __      ______      _____       _
```

Figure 1 SAMPLE PNDP FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
pndp                              5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5608-10/11)             PRIVATE NETWORK DIALING PLAN

*1. ARS GROUP NAME   ________              13. ARS SDN   N
*2. DIAL PLAN        _                     14. NODAL 56K N
*3. INCOMING DIGITS  __________________    15. REMARKS   ________________
```

```
#4. CALL TYPE        ________
 5. NBR DIGITS       __
 6. ARS INDEX        _____
 7. FRL              __
 8. ROUTE TYPE       _______
  9. SELECT DEST SCRN N
 10. CONVERSION INDEX ______
11. NSC DN           _____________
12. NSC DIAL PLAN    _
```

```
pndp                              5ESS Switch            _
SCREEN 2 OF 2               OFFICE DATA ADMINISTRATION
(5608-10/11)               PRIVATE NETWORK DIALING PLAN

                                  16. CONFLICT RESOLUTION TABLE ENTRIES (CONFRES)

    NBR    CALL    ARS       ROUTE  CONVERSION ARS NODAL
ROW DIGITS TYPE    INDEX FRL TYPE   INDEX      SDN 56K
 1   __   ________ _____  __  _______  ______     _    _
 2   __   ________ _____  __  _______  ______     _    _
 3   __   ________ _____  __  _______  ______     _    _
 4   __   ________ _____  __  _______  ______     _    _
 5   __   ________ _____  __  _______  ______     _    _
 6   __   ________ _____  __  _______  ______     _    _
 7   __   ________ _____  __  _______  ______     _    _
 8   __   ________ _____  __  _______  ______     _    _
 9   __   ________ _____  __  _______  ______     _    _
```

Figure 2 SAMPLE PNDP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 9K: 5608-12 RECORD
PRIVATE NETWORK INFORMATION FORM - PNINFO

1. GENERAL

The 5608-12 Record is available with 5E3 and later Software Releases. It is used to define the error treatment associated with a PNDP (Private Network Dialing Plan).

PNDPs may be optionally used for subscribers who are assigned an ARS (Automatic Route Selection) BRCS feature.

If the ARS feature assigned to the terminal is defined on the ARSFD form (5609-1 Record), with ENTRY equal to "AUTO", then the dialing plan used to analyze ARS digits is specified as a default parameter of the ARSFD form or as a parameter of the ARSLPA, ARSMPA, or ARSTPA forms, (5608-3, 5608-4, or 5608-5 Records, respectively). With this type of ARS feature, exactly one dialing plan is specified. The choices are ODP (the Office Dialing Plan of the originator), 1 (Private Network Dialing Plan 1) or 2 (Private Network Dialing Plan 2).

If the ARS feature is defined with ENTRY equal to "CODE", the action defined for the access code will indicate which dialing plan to use when interpreting ARS digits. The ARS access code or codes may be defined on the PDIT form (5300-2 Record) or on the IDPDCA form (5601-1/2 Records). An action of "ARSUSE" indicates that the Office Dialing Plan of the originator should be used while the actions "ARS1USE" and "ARS2USE" indicate that Private Network Dialing Plan 1 or 2, respectively, should be used. With this type of ARS feature, more than one dialing plan may be used by specifying unique access codes with the desired actions. If two access codes and dialing plans are used, typically, one dialing plan is used for off-network (public) numbers and one dialing plan is used for on-network (private) numbers.

For either "AUTO" or "CODE" entry ARS features, when Private Network Dialing Plan 1 or 2 is to be used, then the ARS digits are interpreted on the PNDP form (5608-10/11 Records). If the digits are not found in the PNDP, the call will be given the ERROR TREATMENT which is defined on this form, unless partial dial has occurred. If the caller dials an incomplete digit string, the call will route according to the partial dial error treatment specified for the office.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 * ARS GROUP NAME

Description: Enter the name of the ARS Group as defined on an ARSGPA form (5608-2 Record). The maximum quantity of ARS Groups in an office is 200.
Valid Entries: 1 - 8 characters

Data Rules:

If this form is submitted, the name entered here together with the DIAL PLAN specified must be entered on one or more PNDP forms (5608-10/11 Records).

2.3 * DIAL PLAN

Description: Enter the Private Network Dialing Plan number.
Valid Entries: 1 - 2

Data Rules:

If this form is submitted, the DIAL PLAN entered here together with the specified ARS GROUP NAME must be entered on one or more PNDP forms (5608-10/11 Records).

2.4 ERROR TREATMENT

Description: Enter the error treatment to be used when the ARS dialed digits cannot be found in the Private Network Dialing Plan.

Partial dialed digit strings are not subject to this Error Treatment. If 011 is defined in the Private Network Dialing Plan and 0 is not defined, a user dialing a 0 will be subject to partial dial treatment, since 011 is expected to be dialed.

Required Field.
Default: TONE
Valid Entries:

Valid ERROR TREATMENT Entries

Entry	Definition
ANNCE	Used to route the call to the announcement specified on the ARSGPA form (5608-2 Record) in the field BAD NUMBER ANNOUNCEMENT RTI.
ARSODP	ARS will use the ODP. The ODP is used to dodigit analysis. If the Route Index from LDIT is entered inthe ARS IDX field on the ARSSCRN form (5608-6 Record), ARSroutes the call. If the LDIT Route Index is not found onthe ARSSCRN form, treatment is determined from the BAD NUMBER TREATMENT entry on the ARSFD form (5608-1a/bRecord).
ATDN	Used to route the call to the Attendant of this originator's Terminal Group. If "ATDN" is used, all terminals which use this DIAL PLAN, must be assigned to a Terminal Group ID via the TGSR feature, and the Terminal Group must have an Attendant Telephone Number defined on the TGATTD form (5611 Record).
USEOFFC	Used to route the call via the originator's Office Dialing Plan. The call will be treated as if the ARS feature had not been invoked.
TONE	Used to route the call to reorder tone.

```
pninfo                 5ESS OFFICE DATA ADMINISTRATION   _
(5608-12)                 PRIVATE NETWORK INFORMATION


* 1. ARS GROUP NAME   ARS0001
* 2. DIAL PLAN        1
  3. ERROR TREATMENT  USEOFFC
```

Figure 1 SAMPLE PNINFO FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 9L: 5608-13 RECORD
PRIVATE NETWORK OFF NETWORK NUMBER CONVERSION FORM - PNOFFON

1. GENERAL

The 5608-13 Record is available with 5E3 and later Software Releases and is used to convert an off-network number to an on-network number.

The PNOFFON provides the ability to allow the ARS (Automatic Route Selection) subscriber to dial the public, off-network number even though the call is to be analyzed and routed based on the private, on-network digits.

The information on this form is accessed during call processing when digits analyzed on a PNDP form (5608-10/11 Record) indicate a CALL TYPE of "OFFON" with an associated Conversion Index. The ARS Group Name of the PNDP and the Conversion Index are then used as keys to this data where digits are deleted and prefixed, as necessary, to convert the off-net number to its corresponding on-net format. The converted number will then be analyzed in the PNDP of the ARS Group as specified on this form. The PNDP may be the same as the one that initially translated the off-network number or it may be another one used for the ARS Group. For instance, Dial Plan 1 may be used only for off-network numbers while Dial Plan 2 is used for on-network numbers. In this case Dial Plan 1 will initially analyze the off-network dialed digits and this form will indicate that the converted number needs to be analyzed on Dial Plan 2.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.22.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *ARS GROUP NAME

Description: Enter the name of the ARS Group. The name may be from one to eight characters as defined on an ARSGPA Form, 5608-2 Record. The maximum quantity of ARS Groups in an office is 200.

Software Release: 5E3 and later
Required Field.
Valid Entries: 1 - 8 characters

2.3 *CONVERSION INDEX

Description: Enter the Conversion Index. The Conversion Index entered here is a pointer from at least one PNDP Form, 5608-10 Record, where the Call Type is OFFON.

Software Release: 5E3 and later
Required Field.
Valid Entries: 1 - 65535

2.4 DELETE

Description: Enter the quantity of digits to delete from the off-network number requiring conversion.

Software Release: 5E3 and later
Required Field.
Valid Entries: 3 - 11

2.5 DIGIT PFX

Description: Enter the digits to prefix, after the deletion indicated above, to convert the off-network number to its on-network format. The converted number must be in the format RNX-XXXX where R and N are any digits 2-9 and X is any digit 0-9.

Software Release: 5E3 and later
Required Field.
Valid Entries: 3 - 7 digits

2.6 DIAL PLAN

Description: Enter the Private Network Dialing Plan of this ARS Group that will analyze the number after conversion to the on-network format.

Software Release: 5E3 and later
Required Field.
Valid Entries: 1 or 2

```
pnoffon                          5ESS Switch            _
(5608-13)                 OFFICE DATA ADMINISTRATION
                PRIVATE NETWORK OFF NETWORK NUMBER CONVERSION



* 1. ARS GROUP NAME   ARSO12
* 2. CONVERSION INDEX     1
  3. DELETE            6
  4. DIGIT PFX        456
  5. DIAL PLAN        2
```

Figure 1 SAMPLE PNOFFON FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 9M: 5608-14 RECORD
PRIVATE NETWORK ON NETWORK NUMBER CONVERSION FORM-PNONOFF

1. GENERAL

The 5608-14 Record is available with 5E3 and later Software Releases and is used to convert an on-network number to an off-network number.

During call processing, Automatic Route Selection (ARS) will request this conversion when the number it currently has is an on-network number and the available route in the route list requires an off-network number. Off-network numbers are required on an OUTWATS route or on overflow to DDD.

Typically, the RNX of the on-network number is sufficient to determine the appropriate NPA-NXX which will replace it. In this case, the RNX is entered in ON DIGIT, 3 is entered in DELETE and the NPA-NXX is entered in DIGIT PFX. If a prefix of 1 is required for foreign NPAs in this office, it should also be entered in DIGIT PFX, e.g., 1415232. The number converted to its off-network format of (1) + NPA-NXX-XXXX is given to ARS for use on the selected route. The converted number is not retranslated in the PNDP data. However, ARS will take the digits through the originator's Office Dialing Plan to determine Carrier Interconnect and office routing data.

If it is desired that all station numbers within an RNX be replaced by the station number of the attendant, the RNX is entered in ON DIGIT, 7 is entered in DELETE and the attendant number, (1) + NPA-NXX-YYYY, is entered in DIGIT PFX.

It is also possible to translate on more than the RNX before determining the appropriate requirement for deleting and prefixing of digits. In this case the RNXX or even the entire number RNXXXXX may be entered in ON DIGIT. However, it must be understood that this is similar to a digit interpreter table in that the codes must be nonconflicting. If 2320 is entered, 232 must not also be entered. However, 2321 through 2329, or any subset of these digit strings, could also be entered.

All numbers which have been translated in a PNDP for the ARS Group as an on-network number and have an opportunity to go off-net during ARS routing, must be entered on a PNONOFF Form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 9.23.

2. FORM ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *ARS GROUP NAME

Description: Enter the name of the ARS Group. The name may be from one to eight characters as defined on an ARSGPA form (5608-2 Record). The maximum quantity of ARS Groups in an office is 200.

Software Release: 5E3 and later.
Required Field.
Valid Entries: 1 - 8 characters

2.3 *ON DIGIT

Description: Enter from three to seven digits of the on-network number which requires conversion to its off-network (public) format for an ARS off-net route. The on-network number is in the format RNX-XXXX where R and N are any digits 2-9 and X is any digit 0-9. The RNX is typically sufficient.

Software Release: 5E3 and later.
Required Field.
Valid Entries: 3 - 7 digits

2.4 DELETE

Description: Enter the quantity of digits to delete from the on-network number requiring conversion.

Software Release: 5E3 and later.
Required Field.
Valid Entries: 3 - 7

2.5 DIGIT PFX

Description: Enter the digits to prefix, after the deletion indicated above, to convert the on-network number to its off-network format. The converted number is normally in the format of NXX-XXXX or NPA-NXX-XXXX with an optional 0 or 1 prefix.

Software Release: 5E3 and later.
Required Field.
Valid Entries: 3 - 11 digits

2.6 REMARKS

Description: Optionally enter up to 16 alphanumeric characters as deemed locally necessary.

Software Release: 5E3 and later.
Valid Entries: 1 - 16 characters

```
pnonoff                          5ESS Switch             _
(5608-14)                 OFFICE DATA ADMINISTRATION
                 PRIVATE NETWORK ON NETWORK NUMBER CONVERSION

* 1. ARS GROUP NAME   ABC
* 2. ON DIGIT         345
  3. DELETE           3
  4. DIGIT PFX        1415232
  5. REMARKS          ________________
```

Figure 1 SAMPLE PNONOFF FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 10: PRIVATE FACILITY ACCESS FORMS

SEC. 10A: 5609-1 RECORD
PRIVATE FACILITY ACCESS FEATURE DEFINITION FORM - PFAFD

1. GENERAL

The 5609-1 Record is available with 5E2 and later Software Releases. It is used to define a PFA (Private Facilities Access) feature, associating it with a PFA Group name defined on a PFAGPA form (5609-5 Record). It is the linkage between the feature assignment forms and the group information.

A terminal, line or trunk, may be assigned a PFA feature on the appropriate feature assignment form: LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), TKGRPFA (5206 Record), or TRUNKFA (5205 Record).

1.1 PFA Features

Some PFA features have been preconstructed and appear in Figures 1 through 4. If a preconstructed feature is used, the terminal parameter forms must be entered to identify the PFA Group Name. PFA constructed (switch owner defined) features do not count toward the office's Contructed Feature Limit.

The PFA Group name entry is actually a default parameter. The PFA parameter forms of PFALPA (5609-6 Record), PFAMPA (5609-7 Record), and PFATPA (5609-8 Record) have been included for consistency with other BRCS features. However, the PFAFD form with the Group name assignment eliminates the need for the parameter forms.

Each terminal (line or trunk) may be assigned only one PFA feature, even though the feature may be associated with multiple sets of private facilities. This is resolved on the PFAGPA form with the various dial code accesses. This also means that one PFA feature will be used for all codes in the IDPDCA form (5601-1/2 Record) with ACTION equal to "PFUSE".

A terminal must be assigned a PFA feature when dial code access is required. That is, to access any of the facilities defined in the PFAGPA form, the terminal must have a PFA feature. Other forms in the 5609 Record series do not require a PFA feature. They are the PFATG (5609-2 Record), PFASFG (5609-3 Record), and PFAINWT (5609-4 Record) forms, and are included here because of the inter-relatedness of the Simulated Facility Groups.

1.2 PFA Dial Access

The PFA feature allows customers to have dial access to various types of public and private switching arrangements. These include dial access to FX trunks, OUTWATS, tie trunks and tandem tie trunk networks, CCSA (Common Control Switching Arrangement) networks, ETS (Electronic Tandem Switching) networks, and EPSCS (Enhanced Private Switched Communications Service) networks. While the 5ESS Switch allows access to CCSA, ETS and EPSCS networks, it does not currently support its use as a CCSA, ETS or EPSCS switching node.

PFA also provides dial access to equipment provided on the customer premises, such as radio paging and recorded telephone dictation equipment.

1.3 ISDN Circuit-Switched Data Calls

The BRCS Supplementary Services for ISDN CSD (Circuit-Switched Data) calls feature, which is available in 5E6 and later Software Releases, allows the Private Facilities Access feature originally developed for CSV (Circuit-Switched Voice) calls to apply to CSD calls, as well.

Use of this feature provides the means to establish CSD calls between BRIs (Basic Rate Interfaces) or PRIs (Primary Rate Interfaces) that are making use of the Private Facilities Access service. When a BRI or PRI is assigned PFA service, the service may apply to both CSV and CSD calls for that BRI or PRI.

Since PFA groups for CSD and CSV calls are separate, all group options available to a CSV PFA user are also available to a CSD PFA user. The values of these options, which are entered on the PFAGPA form (5609-5 Record), can differ or be the same for each group.

CSD PFA groups may also be assigned through BFGs (BRCS Feature Groups) in the same manner CSV PFA groups are currently assigned.

The following CSD PFA calls are not supported:

- Radio paging
- Recorded telephone dictation
- Calls using Foreign Exchange carriers

Also, Queueing is not supported for CSD PFA calls.

Existing preconstructed features for CSV calls will also be used for CSD calls (no new preconstructed PFA features). For more information concerning the assignment of BRCS features, see Division 2, Section 1F.

1.4 Recent Change View

The corresponding Recent Change View for this form is 12.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: Enter the PFA (Private Facility Access) Feature Name. PFA Feature Names have no restrictions on the valid characters, except that the first character may not be a slash (/).
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

DEFAULT PARAMETERS

The following fields (Section 2.4 - Section 2.8) define the default parameters assigned with the feature to terminals (lines or trunks). These parameters will be assigned to the terminal unless they are overridden by entries on the PFALPA, PFAMPA or PFATPA forms. For PFA it is recommended that the PFA Group name be entered here, eliminating the need for the parameter forms.

2.4 PFA GROUP

Description: For 5E6 and later, this field is renamed CSV PFA GRP.

Enter the name of the PFA Group.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

2.5 CSV PFA GRP

Description: Enter the name of the Circuit-Switched Voice PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The CSV PFA GRP must match a PFA GROUP defined on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "VOICE".

Defining a CSV PFA GRP is not required; however, if a CSD PFA GRP is defined on this form, then a CSV PFA GRP also must be defined.

2.6 CSD PFA GRP

Description: Enter the name of the Circuit-Switched Data PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

If CSD PFA GRP is entered, CSV PFA GRP must also be entered; the two group names must be different.

CSD PFA GRP must match a PFA GROUP defined on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "CSD".

2.7 QUEUE ALLOWED

Description: Is queuing of outgoing trunks allowed for this PFA feature? If "N" is entered, calls originating from this PFA feature cannot be queued.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.8 PRIORITY QUEUE

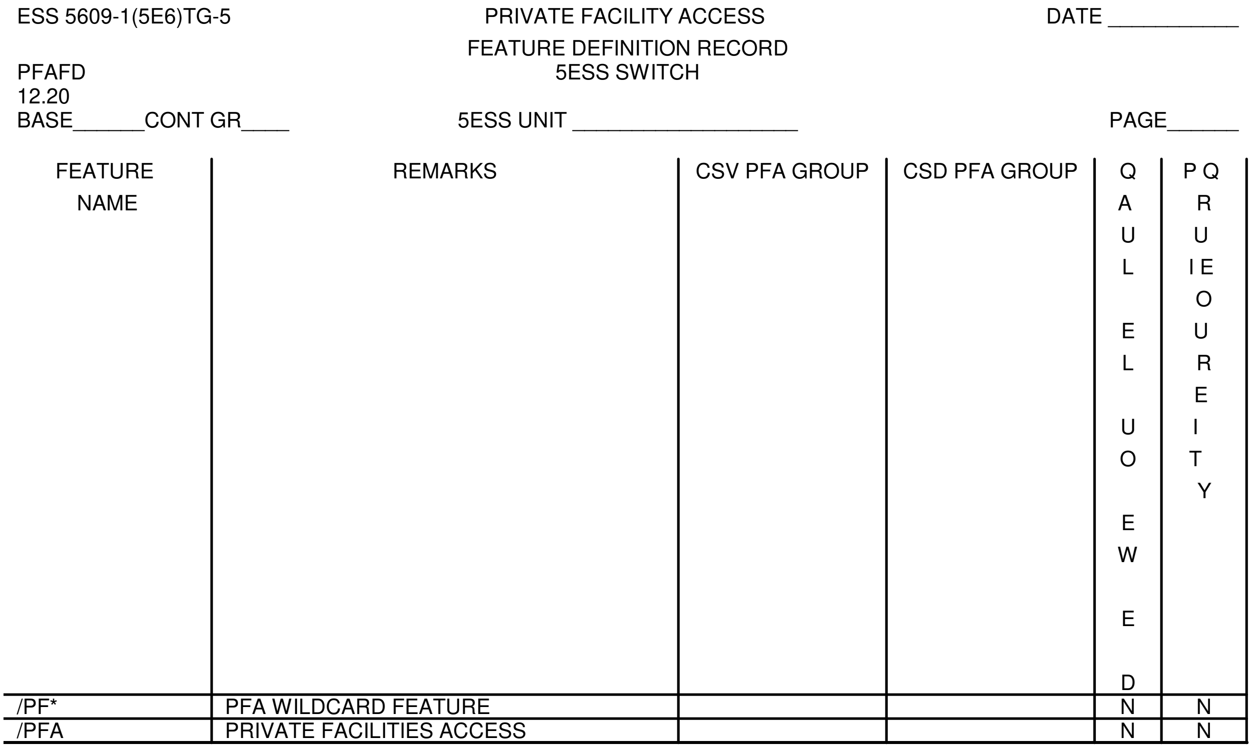
Description: Does this PFA feature have a priority option? An entry of "Y" indicates that the calls in queue for this feature can be prioritized.

Software Release: 5E3 and later

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

Data Rules:

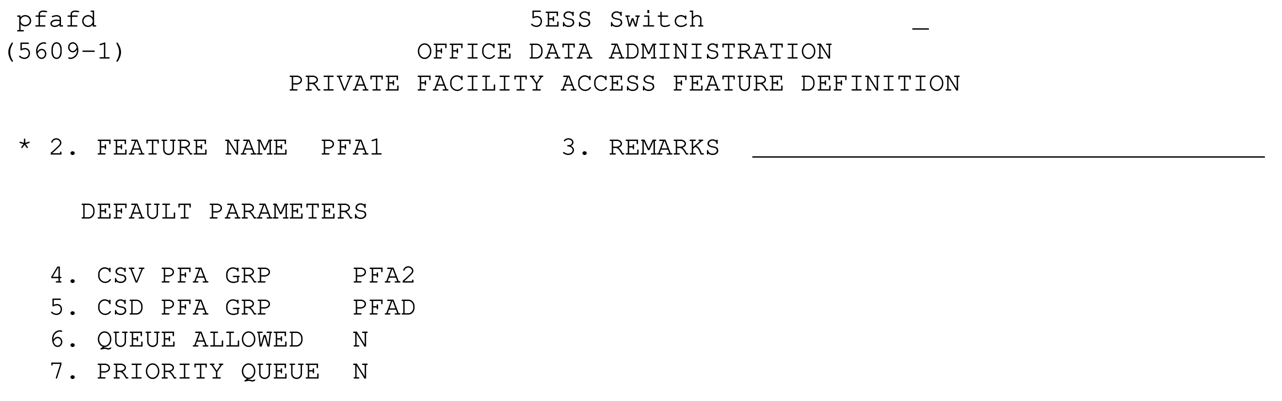
If PRIORITY QUEUE is "Y", QUEUE ALLOWED must be "Y".



ESS 5609-1(5E6)TG-5 PRIVATE FACILITY ACCESS DATE ___________
FEATURE DEFINITION RECORD
PFAFD 5ESS SWITCH
12.20
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	CSV PFA GROUP	CSD PFA GROUP	QUEUE ALLOWED	PRIORITY QUEUE
/PF*	PFA WILDCARD FEATURE			N	N
/PFA	PRIVATE FACILITIES ACCESS			N	N

Figure 1 PRECONSTRUCTED PFA FEATURE 5E6 AND LATER SOFTWARE RELEASES



```
 pfafd                          5ESS Switch         _
(5609-1)                 OFFICE DATA ADMINISTRATION
                 PRIVATE FACILITY ACCESS FEATURE DEFINITION

 * 2. FEATURE NAME  PFA1           3. REMARKS  ________________________________

     DEFAULT PARAMETERS

   4. CSV PFA GRP     PFA2
   5. CSD PFA GRP     PFAD
   6. QUEUE ALLOWED   N
   7. PRIORITY QUEUE  N
```

Figure 2 SAMPLE PFAFD FORM 5E6 AND LATER SORFTWARE RELEASES

SEC. 10B: 5609-2 RECORD
PFA TERMINAL GROUP FORM - PFATG

1. GENERAL

The 5609-2 Record is available with 5E2 and later Software Releases. It is used to associate a BRCS Terminal Group, from the Terminal Group Station Restriction feature, to an SFG (Simulated Facility Group). The SFGs provide limited access for ESSX service and to six-port conference circuits.

ESSX service is a means of simulating the Central Office access trunks that a PBX (Private Branch Exchange) uses to access the Central Office. ESSX is used for a customer group that has line appearances in the 5ESS Switch for each of their telephones, but they wish to limit the number of calls originating and/or terminating to these lines. ESSX limits are achieved through the use of SFGs.

In the 5ESS Switch, ESSX limits the quantity of simultaneous calls to and/or from numbers outside the customer's Terminal Group, or calls that are placed without using the intercom feature of the IDP (Individualized Dialing Plan) capability.

The ESSX service can be incoming only, outgoing only or two-way. If a customer has two-way ESSX, there can be separate SFGs for incoming and outgoing, an SFG which serves both, or hunting arrangements which incorporate both types.

When a member of a Terminal Group originates a call, the PFATG form is checked to see if there is an entry for its Terminal Group ID in ORIG MC ROUTE INDEX. An entry signifies that this Terminal Group has originating (outgoing) ESSX. With outgoing ESSX, the 5ESS Switch checks to see if the call is an intercom call. (An intercom call is identified in the IDPDCA form (5601-1/2 Record) with an action of "ICMUSE".) If it is an intercom call, the terminal that the call is terminating to is checked to see if it belongs to the same Terminal Group. Only calls which are both intercom and within the Terminal Group are exempt from the SFG limit. Also, calls incoming to or outgoing from the Terminal Group over private facilities (e.g. FX, tie lines) are not restricted by the SFG. For all other calls, outgoing ESSX applies and the ORIG MC ROUTE INDEX is used for the MCRTIDX form (5304 Record) to determine which SFG to use. If all the "ports" of this SFG are busy, the NEXT MC ROUTE INDEX on the MCRTIDX form is checked to see if another ESSX SFG should be tried or if the call should route to reorder tone.

Similar processing takes place when calls are terminating to a Terminal Group except that TERM MC ROUTE INDEX on this form is checked to see if the Terminal Group has terminating (incoming) ESSX.

When a member of a Terminal Group initiates a six-port conference call, the PFATG form is checked to find the SIXPORT SFG entry for its Terminal Group ID. The Terminal Group has limited access to the six-port conference circuits in this office. The SFG limits the number of six-port conference circuits that the specified Terminal Group can use simultaneously. To use a six-port conference circuit, the Terminal Group member must also be assigned a BRCS Multiway feature such as "/MW6WC" or its equivalent.

To be a member of a Terminal Group, a terminal must be assigned a TGSR (Terminal Group Station Restriction) BRCS feature. The Terminal Group ID is assigned as a default parameter of the TGSRFD form (5607-1/2 Record) or on a TGSRLPA (5607-3 Record), TGSRMPA (5607-4 Record), or TGSRTPA form (5607-5 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 7.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TERMINAL GROUP ID

Description: Enter the Terminal Group ID number.

Required Field.
Valid Entries: 1 - 65535

2.3 ORIG MC ROUTE INDEX

Description: If Outgoing ESSX service is required for this Terminal Group, enter an MC Route Index.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and 5E12: 1 - 4095
  For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The MC Route Index must be defined on an MCRTIDX form with an MC ROUTE TYPE of "SFG".

2.4 TERM MC ROUTE INDEX

Description: If Incoming ESSX service is required for this Terminal Group, enter an MC Route Index.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and 5E12: 1 - 4095
  For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The MC Route Index must be defined on an MCRTIDX form with an MC ROUTE TYPE of "SFG".

2.5 CCSA ORIG MC RTI

Description: If Originating CCSA (Common Control Switching Arrangement) is required for this Terminal Group, enter an MC Route Index.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and 5E12: 1 - 4095
  For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The MC Route Index must be defined on an MCRTIDX form with an MC ROUTE TYPE of "SFG".

2.6 CCSA TERM MC RTI

Description: If Terminating CCSA (Common Control Switching Arrangement) is required for this Terminal Group, enter an MC Route Index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The MC Route Index must be defined on an MCRTIDX form with an MC ROUTE TYPE of "SFG".

2.7 SDN MC ROUTE INDEX

Description: If access to an SDN (Software Defined Network) is required for this Terminal Group, enter an MC Route Index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

Data Rules:

The MC Route Index must be defined on an MCRTIDX form with an MC ROUTE TYPE of "SFG".

2.8 SIXPORT SFG

Description: If access to six-port conference circuits is required for this Terminal Group, enter an SFG Number.
Valid Entries: 1 - 2000

Data Rules:

The SFG Number must be defined on a PFASFG form (5609-3 Record) with an SFG TYPE of "6PORT".

2.9 EON MC RI

Description: Proprietary field.

```
pfatg                          5ESS Switch           _
                        OFFICE DATA ADMINISTRATION
(5609-2)                    PFA TERMINAL GROUP

*1. TERMINAL GROUP ID    ______
2. ORIG MC ROUTE INDEX _____
3. TERM MC ROUTE INDEX _____
4. CCSA ORIG MC RTI    _____
5. CCSA TERM MC RTI    _____
6. SDN MC ROUTE INDEX  _____
```

```
7. SIXPORT SFG         _____
8. EON MC RI           _____
```

Figure 1 SAMPLE PFATG FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 10C: 5609-3A/B RECORD
SIMULATED FACILITY GROUP FORM - PFASFG

1. GENERAL

The 5609-3 Record is available with 5E2 and later Software Releases. It is used to define SFG (Simulated Facility Groups) which allow controlling access to physical groups such as lines, trunks and special circuits. SFGs may be used for OUTWATS, INWATS, ESSX, EDSL, CCSA, SDN, Megacom, Megacom 800 and six-port conference circuits.

In order to obtain access to the associated feature or facility, an idle member of the Simulated Facility Group must be available. The hunting method for SFGs is similar to the linear hunt of a Trunk Group. Each member of either an SFG or a Trunk Group is marked as busy or idle. The difference is that the SFG members do not have an associated piece of equipment, e.g., a DEN or a TEN. It is software only, hence, the name simulated.

When an SFG is used, the customer is allowed limited access to a physical set of equipment. The number of simultaneous accesses is not allowed to exceed a prespecified limit. That limit is essentially the SFG SIZE specified on this form. This limit is usually less than the number of members in the physical facility, e.g., the number of terminals in an INWATS MLHG. It is possible to set the SFG SIZE to a number that is equal to or greater than the physical members available. However, calls would never be blocked at the simulated level.

1.1 OUTWATS Simulated Facility Groups

An OUTWATS SFG may be associated with either an ARS (Automatic Route Selection) route list, a PFA (Private Facility Access) dial access, or, for 5E4(2) and later, EDSL trunk groups. For any of these features, the MCRTIDX form (5304 Record) contains the SFG Number that points to this form. When the SFG is used for OUTWATS, two additional fields of the PFASFG form are used if access of an SFG "port"is successful. These are the WATS BILLING NUMB/SPECIAL BILL NBR and SCREENING INDEX/SCRN IDX. The Screening Index is required so that band screening may be done and the appropriate Charge Index may be determined in the RAR form (5301 Record). The WATS Billing Number is an optional entry if it is desired that a Special Billing Number associated with the SFG be used.

It is possible to avoid duplicating RAR forms for physical OUTWATS lines and OUTWATS SFGs even though different billing is to be done. This is done by using a WATS Charge Index ("FGDWBL"or "WATSB") described as Group Billing. These Charge Indexes were designed so that if a Group Billing Number (i.e., the WATS BILLING NUMB/SPECIAL BILL NBR on the PFASFG form) is not found, the Billing Number of the terminal is used. Because the physical OUTWATS line does not access the PFASFG form, it can never collect the WATS BILLING NUMB/SPECIAL BILL NBR and, therefore, will always use the terminal billing number.

For ARS and PFA OUTWATS calls which do access the PFASFG form, if the Charge Index indicates Group Billing but no WATS Billing Number has been entered, the Terminal Billing Number is used.

1.2 INWATS Simulated Facility Groups

An INWATS SFG can be used to terminate INWATS calls to a MLHG (Multi-Line Hunt Group). For 5E4(2) and later, it also can be used to terminate INWATS calls to a trunk group. For an INWATS SFG, the MCRTIDX form contains the SFG Number that points to this form. The PFAINWT form (5609-4 Record), is the initial trigger for using an SFG for terminating INWATS calls to a Multi-Line Hunt Group.

For 5E4(2) and later, INWATS SFGs used for terminating to non-EDSL trunk groups use the called (terminating) number as the billing number if no billing number is specified in the SFG, EDSL trunk groups use the billing number of the trunk group if no billing number is specified in the SFG.

The WATS BILLING NUMB/SPECIAL BILL NBR may also be used for an INWATS SFG. If access of an INWATS SFG "port"is successful, the WATS BILLING NUMB/SPECIAL BILL NBR entered will be used for the terminating INWATS billing record. If an entry is not made in WATS BILLING NUMB/SPECIAL BILL NBR, the billing number of the Multi-Line Hunt line terminal that the call terminates to will be used.

1.3 ESSX and Six-Port Conference Circuit SFGs

ESSX and six-port conference circuit SFGs are associated with a Terminal Group on a PFATG form (5609-2 Record). For six-port conference SFGs, the PFATG form contains the SFG Number that points to this form. For ESSX (incoming, outgoing, or two-way), the MCRTIDX form contains the SFG Number.

1.4 Selective Customer Control of Facilities and Trunk Group Busy Lamps

SCCOF (Selective Customer Control of Facilities) and TGBL (Trunk Group Busy Lamps) may be used for Simulated Facility Groups similar to the way they are used for physical equipment groups. With SCCOF, by operating a key on the customer premises, the customer can prevent calls from using a given facility (including simulated) by making the facility appear to be in an all-members-busy condition. Normal operation of the facility resumes when the key is released. If the facility is equipped with a TGBL on the customer premises, the lamp will be lit when the key is operated and extinguished when the key is released just as it is when all of the SFG members are really in use. MAKE BUSY KEY and BUSY LAMP should be entered for SCCOF and TGBL, respectively. They are both optional fields and one may be entered without the other if only one of the capabilities is desired.

1.5 Intercom Calling Restriction SFGs

For ICR (Intercom Calling Restriction) SFGs, an IDPLPA form (5601-6 Record) or an IDPMPA form (5601-7 Record), contains the SFG Number that points to this form. Additional fields (TRACK SM, AMA BILL, ICR ACTIVATE, ATT TN, ICR ACTION and ICR OVFL BILL) have been added for ICR SFGs.

The values entered in the ICR ACTION field must not be duplicated for one or more SFG numbers.

If a busy lamp is used to indicate when all members of the ICR SFG are busy, one of the following must be true.

Terminal Type	Field		
	BUSY LAMP	ATT TN	ICR ACTION
Analog Terminal	req entry	blank	blank
ISDN Attendant Console	blank	req entry	req entry

If a busy lamp is not used, then the BUSY LAMP, ATT TN and ICR ACTION fields must all be blank.

1.6 Recent Change View

The corresponding Recent Change View for this form is 7.3.

2. FORM ENTRIES - 5609-3A RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SFG NBR

Description: Enter the SFG (Simulated Facility Group) Number.
Valid Entries: 1 - 2000

Data Rules:

If SFG SIZE is in the range of 97 to 1984, then the SFG NBR must be 1 - 500.

If SFG SIZE is in the range of 1 to 96, then the SFG NBR may be 1 - 2000.

2.3 # SFG TYPE

Description: Enter the Type of SFG.

Required Field.

Valid SFG TYPE Entries

Entry	Definition
CNSOVFL	Software Release: 5E9(2) and later . CENTREX Network Special overflow used with an MC route index for Network overflow. This value supports the CENTREX Network secured features. For more information on these features see Division 2, Sections 4A181, 4A182, and 4A183.
EDSL	Software Release: 5E4(2) and later. Extended Digital Subscriber Line.
EOPAT	Software Release: 5E3 and later. End Office Precedence Access Threshold.
E911LNE	Software Release: 5E7 and later. Enhanced 911 Line SFG. Required for E911, this SFG limits the total number of simultaneously active 911 calls that originated from lines or from PBX trunks (trunk groups assigned an E911 TYPE of "PBXNONDED"on the TKGRP form). When the number of active calls exceeds SFG SIZE, additional 911 call attempts from lines and PBX trunks will receive reorder treatment.
E911TRK	Software Release: 5E7 and later. Enhanced 911 Trunk SFG. Required for E911, this SFG limits the total number of simultaneously active 911 calls originated from trunk groups assigned an E911 TYPE of "NONDED"on the TKGRP form. When the maximum number of calls are active, additional 911 call attempts from non-dedicated trunks will receive reorder treatment.
ICR	Software Release: 5E4(2) and later. Intercom Calling Restriction.
IESSX	Incoming ESSX service associated with a Terminal Group.
INCCSA	Software Release: 5E3 and later. Incoming CCSA service associated with a Terminal Group.
INFX	Software Release: 5E9(1) and later. Incoming EDSL (Extended Digital Subscriber Line) SFG from a Foreign Exchange trunk.
INTIE	Software Release: 5E9(1) and later. Incoming EDSL SFG from a Tie trunk.
INWATS	Used for Terminating INWATS service to a MLHG; or, for 5E4(2) and later, terminating INWATS to a trunk group.
MEGACOM	Software Release: 5E6 and later. Megacom.
M800	Software Release: 5E6 and later. Megacom 800.
NETPAT	Software Release: 5E3 and later. Network Precedence Access Threshold.
OESSX	Outgoing ESSX service associated with a Terminal Group.
OUTCCSA	Software Release: 5E3 and later.

	Outgoing CCSA service associated with a Terminal Group.
OUTFX	Software Release: 5E9(1) and later. Outgoing EDSL SFG to a Foreign Exchange trunk.
OUTTIE	Software Release: 5E9(1) and later. Outgoing EDSL SFG to a Tie trunk.
OUTWATS	Outward WATS service associated with PFA or ARS Groups; or, for 5E4(2) and later, OUTWATS service associated with an EDSL Hunt Group.
SDN	Software Release: 5E3 and later. Software Defined Networks.
2WCCSA	Software Release: 5E3 and later. Two-Way CCSA, an SFG used for both Incoming and Outgoing CCSA.
2WESSX	Two-Way ESSX, an SFG used for both Incoming and Outgoing ESSX.
2WFX	Software Release: 5E9(1) and later. 2-way EDSL SFG and/or a Foreign Exchange trunk.
2WTIE	Software Release: 5E9(1) and later. 2-way EDSL SFG and/or a Tie trunk.
6PORT	Six-Port conference circuits associated with a Terminal Group.
HM	Software Release: 5E11 and later. Hotel Motel This entry supports the ISDN PRI Hotel/Motel and Selected Class of Call Screening secured feature, see Diviision 2, Section 4A219.
SCOCS	Software Release: 5E11 and later. Selected Class of Call Screening This entry supports the ISDN PRI Hotel/Motel and Selected Class of Call Screening secured feature, see Diviision 2, Section 4A219.

Data Rules:

When SFG TYPE is "HM", "M800", "MEGACOM", "OUTWATS" or "SCOCS", SCRN IDX must be entered.

If SFG TYPE is "HM"or "SCOCS", "QUEUE ALLOWED" must be "N"or not entered.

ISDN PRI Hotel/Motel and Selected Class of Call Screening are secured features. They must be purchased before "HM"or "SCOCS" can be entered in the SFG TYPE field on the PFASFG form. The ACT field for SFID 219 on the SFSYS form must be set to "Y".

For 5E7 and later, if SFG TYPE is "E911LNE"or "E911TRK", SFG SIZE must be 1 through 511; BUSY LAMP, MAKE BUSY KEY, and ISAT MLHG must be left blank; and BW LAMP and MK BUSY must be "N" or blank. These SFG NBRs are specified in the E911 LN SFG and E911 TRK SFG fields on the OFCOPT form (5509 Record) and must not appear on MCRTIDX forms.

For 5E9(1) and later, if SFG TYPE is "OUTFX", "OUTTIE", "2WFX", or "2WTIE", RTI must be entered. The RTI must be defined as ROUTE INDEX on an RTIDX form where a TRUNK GROUP NUMBER is entered and is defined as TGN on a TKGRP form. If SFG TYPE on this PFASFG form is "OUTFX"or "2WFX", FACILITY TYPE on the TKGRP form must be "FX"; if SFG TYPE is "OUTTIE" or "2WTIE", FACILITY TYPE must be "TIE".

If SFG TYPE is not "OUTFX", "OUTTIE", "2WFX", or "2WTIE", RTI cannot be entered.

SFG RTIs assigned on a PFASFG form must be defined on an RTIDX form.

If MCRTIDX forms have an SFG NUMBER defined on a PFASFG form with an SFG TYPE of "INFX", "INTIE", "OUTFX", "OUTTIE", "2WFX", or "2WTIE", then

- NEXT ROUTE cannot be entered on the MCRTDIX form.

- the MCRTIDX form with NEXT MC ROUTE INDEX entered may overflow to another MCRTIDX form keyed by this MC ROUTE INDEX value (call this overflow form MCRTDIX'). This MCRTDIX' form must also have an SFG NUMBER defined on a PFASFG form (call it PFASFG') where the SFG TYPE is as follows:

SFG TYPE	
PFASFG	**PFASFG'**
2WFX, 2WTIE	2WFX, 2WTIE
INFX, INTIE	INFX,INTIE, INWATS, 2WFX, 2WTIE, EDSL
OUTFX, OUTTIE	OUTFX, OUTTIE, OUTWATS, 2WFX, 2WTIE, EDSL
HM	HM
SCOCS	SCOCS

CONSOVFL:

For 5E9(2) and later, if "CNSOVFL" is entered, then:
BUSY LAMP must not be entered
BW LAMP must be "N"or not entered
ENQUEUE ACT must be "N"
MAKE BUSY KEY must not be entered
MDR ACT must not be entered
MK BUSY must be "N"or not entered
Q FEATURE must not be entered
QUEUE ALLOWED must be "N"

2.4 # SFG SIZE

Description: Enter the number of members in the SFG.

Required Field.
Valid Entries:
For 5E7 and earlier: 1 - 1984
For 5E8 and later: 1 - 1984, 9999

Data Rules:

When SFG TYPE is "E911LNE" or "E911TRK", SFG SIZE must be 1 to 511.

For 5E8 and later, when SFG SIZE is 9999, indicating that the SFG is of unlimited size, then

- SFG TYPE must be "INWATS", "OUTWATS", "INCCSA", "OUTCCSA" or "2WCCSA"
- QUEUE ALLOWED must be N or not entered
- WARN THRESH can not be entered.

2.5 BUSY LAMP

Description: Enter a DPN (Distribute Point Number) if a lamp at the customer premises is provided to indicate to the customer when all members of the SFG are busy.
Valid Entries: 9 digits. See the following table for the format of a Distribute Point Number.

DISTRIBUTE POINT NUMBER

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

Data Rules:

The pack that the scan point resides on must be defined on an EQMSP or an EQMMSP form (5750 Record) with a PACK TYPE of "DIST".

A DPN, if entered, must be unique. Refer to Division 8, Section 43 of this guide.

2.6 MAKE BUSY KEY

Description: Enter an SPN (Scan Point Number) if a key at the customer premises is provided to enable the customer to make the Simulated Facility Group in an all-members-busy condition by activating the key. Valid Entries: 9 digits. See the following table for the format of a Scan Point Number.

SCAN POINT NUMBER

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

Data Rules:

For offices equipped with CM1 (Communications Module 1), valid SM entries are 1 - 48; for offices equipped with CM2 (Communications Module 2), valid SM entries are 1 - 192.

If SFG TYPE is "ICR", this field must be blank.

The pack that the scan point resides on must be defined on an EQMSP or an EQMMSP form (5750 Record) with a PACK TYPE of "SCAN".

An SPN, if entered, must be unique. Refer to Division 8, Section 42 of this guide.

2.7 SFG BILL NUM

Description: SFG BILL NUM field is used to specify the ten digit number used when billing SFG (Simulated Facility Groups) services.

Software Release: 5E11 and later
Valid Entries: NPAXXXXXXX.

Data Rules:

When SFG BILL NUM is entered, SFG TYPE must be "HM", "INCCSA", "INWATS", "OUTCCSA", "OUTWATS", "SCOCS" or "2WCCSA".

2.8 SPECIAL BILL NBR

Description: Enter a ten-digit TN (Telephone Number) to be used for billing when the SFG TYPE is "OUTWATS", "INWATS", "INCCSA", "OUTCCSA" or "2WCCSA".

If this is an OUTWATS SFG, an OUTWATS Billing TN may be entered. It will be used for billing even if a group billing AMA CALL TYPE is not entered on a CGIDX form (5302-1 Record).

If this is an INWATS SFG, an INWATS Billing TN may be entered. It will be used in place of the Multi-Line Hunt line billing number to bill the terminating call. For 5E4(2) and later, this TN will be used for billing the terminating call instead of the trunk group billing number if the SFG is associated with a trunk group.

If a CCSA SFG is specified, an alternate billing number may be entered. It will be used instead of the terminal billing number.

Software Release: 5E10 and earlier.
Valid Entries: 10 digits

2.9 SCRN IDX

Description: Enter a Screening Index Number.
Valid Entries: 1 - 4095

Data Rules:

The Screening Index entered must be defined on a RAR form (5301 Record).

If the SFG TYPE is "OUTWATS", "M800" or "MEGACOM", this is a required entry. If the SFG TYPE is "EDSL"or "SDN", this is an optional entry. If the SFG TYPE is not "OUTWATS", "M800", "MEGACOM", "EDSL" or "SDN", an entry is prohibited.

When SCRN IDX is entered, SFG TYPE must be "EDSL", "HM", "M800", "MEGACOM", "OESSX", "OUTWATS", "SCOCS", "SDN" or "2WESSX".

For 5E4(2) and later, if this field is entered, the SFG TYPE must be set to "OUTWATS", "EDSL", "IESSX" or "OESSX".

For 5E16(2) and later, when SCRN IDX is not entered, both RAX and CODE RESTRICT must be blank or 0.

2.10 QUEUE ALLOWED

Description: Is queuing allowed for this SFG Group?

Software Release: 5E3 and later.
Valid Entries: Y, N

Data Rules:

If Y is entered, the QUEUE FEATURE name must be defined on a QUFD form (5617-1 Record).

If this field is "Y", then SFG TYPE must be "OUTWATS" and the Q FEATURE must be entered.

For 5E3 and later, if the SFG TYPE field is not "OUTWATS", the QUEUE ALLOWED and Q FEATURE fields must not be entered.

For 5E3 and later, if this field is set to "Y", then the Q FEATURE entry on this form must appear in the FEATURE field on a QUFD form (5617-1 Record) where the GROUP TYPE entry is set to "SFG".

2.11 ENQUEUE ACT

Description: Should queuing be enabled? This field is used to enable or disable queuing for the SFG. It is also used in conjunction with the AP Facilities Management feature to enable and disable queuing. If this field is left blank, it will be set to a "Y"by ODA.

If ENQUEUE ACT is set to "N"and the queuing feature has been assigned, queuing will not be allowed on the SFG.

Software Release: 5E3 and later.
Valid Entries: Y, N

2.12 Q FEATURE

Description: Enter the queue name assigned to this SFG Group.

Software Release: 5E3 and later.
Valid Entries: 1 - 8 characters

Data Rules:

This feature must be defined on a QUFD form.

If this field is entered, then QUEUE ALLOWED must be "Y".

For 5E9(2) and later, if a QFEATURE on this MLHG form is assigned to the same QUEUE MODULE on a QUFD form (5617-1/2 Record) or a QUGPA form (5617-3/4 Record), the QUEUE SIZE must not exceed 255 per QUEUE MODULE if the corresponding EQIM form (5700 Record), where SM matches QUEUE MODULE, has UNIT TYPE set to a value other than "SM2000". Queue Size is the sum of the BASIC SIZE + EXTENDED SIZE + ROUTINE SIZE + PRIORITY SIZE on the QUFD or QUGPA forms for each of the Q FEATURES assigned to the same QUEUE MODULE.

2.13 TRACK SM

Description: Enter the SM on which this ICR SFG data will reside. ICR SFG data will be located in this SM, making it unnecessary to go to the AM (Administration Module) to hunt for an ICR SFG number.

Software Release: 5E4(2) and later
Valid Entries: 1 - 192

Data Rules:

The value entered in this field must be defined in the SM field on an EQIM form (5700-1 Record) where the EQSTATUS field is set to "O" (Operational).

If SFG TYPE is not "ICR", then this field must be blank.

For 5E9(1) and later:

A TRACK SM can only support a maximum of 65535 ICR (Intercom Calling Restriction) Members (SFG SIZE).

If AMA BILL is set to "Y", then no more than 50 PFASFG forms can have the same TRACK SM value.

2.14 AMA BILL

Description: Is an AMA Billing record of all intercom calls allowed?

Software Release: 5E4(2) and later.
Valid Entries: Y, N

Data Rules:

If SFG TYPE is not "ICR", this field must be blank

2.15 ICR ACTIVATE

Description: Should the ICR (Intercom Calling Restriction) feature be activated? This field is used to activate and deactivate the ICR feature.

Software Release: 5E4(2) and later.
Valid Entries: Y, N

Data Rules:

If SFG TYPE is not "ICR", then this field must be blank.

2.16 ATT TN

Description: Enter an ISDN Attendant Console telephone number.

Software Release: 5E4(2) 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

Data Rules:

If SFG TYPE is not "ICR", this field must be blank. If ATT TN is entered, ICR ACTION must be entered and the BUSY LAMP field must be blank.

For 5E5 and later, the ATT TN entry must be defined as a CKT TN with a TERM TYPE of "ATND"and the CONFIG GRP field entered on a DSLUSR form (5908-1 Record). The associated CLASS OF SERVICE on a LCC form must be "ISATND".

For 5E12 and later, if the first 3 digits of the 7-digit ATT TNs on the PFASFG 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 ATT TN(s) must be entered as a 10-digit TN with the NPA/OFFICE CODE defined on the NOC form.

2.17 ICR ACTION

Description: Enter an ICR (Intercom Calling Restriction) Action to indicate which lamp will be lit on the ISDN Attendant Console when all members of the ICR SFG are busy.

Software Release: 5E4(2) and later
Valid Entries:

Valid ICR ACTION Entries

Entry	Definition
ICRBL1	Intercom Calling Restriction Busy Lamp 1
ICRBL2	Intercom Calling Restriction Busy Lamp 2
ICRBL3	Intercom Calling Restriction Busy Lamp 3
ICRBL4	Intercom Calling Restriction Busy Lamp 4
ICRBL5	Intercom Calling Restriction Busy Lamp 5
ICRBL6	Intercom Calling Restriction Busy Lamp 6

Data Rules:

If SFG TYPE is not "ICR", then this field must be blank. If ICR ACTION is entered, then ATT TN must be entered.

The combination of an ATT TN entry and an ICR ACTION entry must be unique. The combination can appear on only one PFASFG form instance.

If an ICR ACTION is entered, then it must be defined on a CFGGRP form.

2.18 ICR OVFL BILL

Description: Is ICR Overflow Billing desired?

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y"is entered in this field, the entry in the SFG TYPE field must be "ICR".

2.19 ALT SFC

Description: Enter an Alternate SFC (Service Feature Code) for an INWATS SFG. When an ALT SFC is entered for a particular SFG, it will be substituted for the default SFC of 8 in the AMA records for that SFG. If an ALT SFC is not entered, then the default SFC of 8 will be used in the AMA record.

Software Release: 5E6 and later
Valid Entries: 800 - 999

Data Rules:

ALT SFC can only be entered when SFG TYPE is "INWATS". A maximum of 150 PFASFG forms in an office can have ALT SFC entered.

ALT SFC is used by the Enhanced INWATS-Type AMA Records secured feature and hence cannot be entered unless this feature has been purchased. This is indicated by setting FEATURE ID 39 to "S"(for 5E9(1) and later, SFID 39 must have ACT set to "Y") on the SFSYS form (5713 Record).

2.20 LINE DAS

Description: Enter the Line DAS associated with this SFG. An entry in this field requires an SFG TYPE of "OUTWATS". LINE DAS, added with the DAS on an OUTWATS SFG feature, allows users access to more than one PDIT, INDIT or LDIT and routes calls using a different dialing plan than the one associated with the originating line. Division 2, Section 1BE contains a full feature description of this capability.

Software Release: 5E7 and later
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

A LINE DAS must be defined on a DAS form (5604-3 Record).

If LINE DAS is entered, then SFG TYPE must be "OUTWATS".

If entered, LINE DAS must not have the same entry as the PVN DAS on the OFCOPT form (5509 Record).

▲ **WARNING:** The corresponding LOCAL DIT on the matching DAS form should be entered on an SMLDIT form (5106 Record) where the List of Switching Modules contains all SMs in the office. Note: If all potential users of this SFG reside in a subset of SMs in the office then the entry of this subset of SMs on the SMLDIT form is sufficient.

2.21 TRK DAS

Description: Enter the Trunk DAS associated with this SFG. An entry in this field requires an SFG TYPE of "OUTWATS". TRK DAS, added with the DAS on an OUTWATS SFG feature, allows users access to more than one PDIT, INDIT or LDIT and routes calls using a different dialing plan than the one associated with the originating trunk.

Software Release: 5E7 and later
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

TRK DAS, if entered, must be defined on a DAS form (5603-4 Record).

If TRK DAS is entered, then SFG TYPE must be entered.

A TRK DAS must not have the same entry as a PVN DAS on the OFCOPT form.

▲ **WARNING:** The corresponding LOCAL DIT on the matching DAS form should be entered on an SMLDIT form (5106 Record) where the List of Switching Modules contains all SMs in the office. Note: If all potential users of this SFG reside in a subset of SMs in the office, the entry of this subset of SMs on the SMLDIT form is sufficient.

2.22 MDR GRP

Description: Enter the MDR GRP associated with this SFG. The entries of MDR GRP and MDR ACT allow the end customer to assign an MDR GRP on an SFG basis. This enables them to generate MDR records on a group basis and only when the SFG is utilized for the call.

Software Release: 5E8 and later
Valid Entries: 1 - 8 characters

Data Rules:

This field should be left blank if this capability is not used. An entry in this field requires SFG TYPE to be "OUTWATS". When MDR GRP is entered, MDR ACT must also be entered.

The MDR GRP entered must be defined on the MDRGP form (5624-2 Record), and either ORIG PRIV or INC PRIV on the MDRGP form must be "Y".

MDR GROUP STATUS on the MDRGP form (5624-2 Record) is not applicable to MDR GRP which is assigned SFG TYPE "OUTWATS".

2.23 MDR ACT

Description: Should the Message Detail Recording group be activated?

Software Release: 5E8 and later
Valid Entries: Y, N

Data Rules:

This field should be left blank if the MDR capability is not used. When MDR ACT is entered, MDR GRP must also be entered.

2.24 RTI

Description: Enter the route index for PRI Call-by-Call originations.

Software Release: 5E9(1) and later.
Valid Entries:
- For 5E10 and earlier: 1 - 3617
- For 5E11 and 5E12: 1 - 4095
- For 5E13 and later: Blank, or 1 - 16382.

Data Rules:

For 5E9(1) and later, if SFG TYPE is "OUTFX", "OUTTIE", "2WFX", or "2WTIE", RTI must be entered.

If SFG TYPE is not "OUTFX", "OUTTIE", "2WFX", or "2WTIE", RTI cannot be entered.

2.25 RAX

Description: This field indicates the rate center that is assigned to the Trunk being used.

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

Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.26 CODE RESTRICT

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

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

3. FORM ENTRIES - 5609-3B RECORD

ISDN ATTENDANT

The MK BUSY, BW LAMP, ISAT GRP and WARN THRESH fields (Section 3.1 - Section 3.4) are applicable to ISDN Attendant Simulated Facility Groups. The fields are available with 5E4(2) and later.

3.1 MK BUSY

Description: Is Selective Customer Control of Facilities on? This feature allows the attendant to deny access to a Simulated Facility Group.
Default: N
Valid Entries: Y, N

Data Rules:

For 5E9(2) and later, when this field is "Y", the MAKE BUSY KEY field must be entered on this form.

3.2 BW LAMP

Description: Are Simulated Facility Group busy warning lamp(s) provided for this group on the attendant's console? If "Y"is entered, the lamp will light whenever the threshold of idle members in an SFG is less than or equal to the threshold value entered in the WARN THRESH field.
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", an ISAT GRP must be entered.

3.3 ISAT GRP

Description: Enter the ISDN Attendant MLHG that can busy monitor this SFG.
Valid Entries:
  For 5E14 and earlier: 1 - 2000
  For 5E15 and later: Blank or 1 - 8191

Data Rules:

If the BW LAMP field is set to "Y", then this field must be entered.

If an ISAT GRP is entered, it must be defined on a MLHG form (5110-1 Record) with a MLHG FEATURE defined on a MLHGFD form (5604 Record) with a HUNT TYPE of "ISAT".

3.4 WARN THRESH

Description: Indicate the threshold of members of this group that must be idle at any given time before the Simulated Facility Group busy warning lamp(s) will light at the attendant's console.
Valid Entries: 0 - 1984

Data Rules:

If the BW LAMP field is set to "Y", then the WARN THRESH field must be entered.

If the BW LAMP field is set to "N", then the WARN THRESH field must not be entered.

```
pfasfg                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5609-3a/b)                SIMULATED FACILITY GROUP

*1. SFG NBR       ____       12. AMA BILL      _             ISDN ATTENDANT
#2. SFG TYPE      __________ 13. ICR ACTIVATE  _          23. MK BUSY     N
#3. SFG SIZE      ____       14. ATT TN        __________ 24. BW LAMP     N
 4. BUSY LAMP     _________  15. ICR ACTION    ______     25. ISAT MLHG   ____
 5. MAKE BUSY KEY _________  16. ICR OVFL BILL N          26. WARN THRESH ____
 6. SFG BILL NUM  __________ 17. ALT SFC       ___
 7. SCRN IDX      ____       18. LINE DAS      ___
 8. QUEUE ALLOWED _          19. TRK DAS       ___
 9. ENQUEUE ACT   _          20. MDR GRP       ________
10. Q FEATURE     ________   21. MDR ACT       _
11. TRACK SM      ___        22. RTI           _____
```

Figure 1 SAMPLE PFASFG FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```
pfasfg                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5609-3a/b)                SIMULATED FACILITY GROUP

*1. SFG NBR       ____       12. AMA BILL      _          24. CODE RESTRICT ___
#2. SFG TYPE      __________ 13. ICR ACTIVATE  _
#3. SFG SIZE      ____       14. ATT TN        __________
 4. BUSY LAMP     _________  15. ICR ACTION    ______
 5. MAKE BUSY KEY _________  16. ICR OVFL BILL N
 6. SFG BILL NUM  __________ 17. ALT SFC       ___
 7. SCRN IDX      ____       18. LINE DAS      ___
 8. QUEUE ALLOWED _          19. TRK DAS       ___
 9. ENQUEUE ACT   _          20. MDR GRP       ________
10. Q FEATURE     ________   21. MDR ACT       _
11. TRACK SM      ___        22. RTI           _____
                             23. RAX           ___
```

```
pfasfg                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5609-3a/b)                SIMULATED FACILITY GROUP

   ISDN ATTENDANT
25. MK BUSY     N
26. BW LAMP     N
27. ISAT MLHG   ____
28. WARN THRESH ____
```

Figure 2 SAMPLE PFASFG FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 10D: 5609-4 RECORD
INWATS SIMULATED FACILITY TN FORM - PFAINWT

1. GENERAL

The 5609-4 Record is available with 5E2 and later Software Releases. It is used to associate an MLHG (Multi-Line Hunt Group) with an SFG (Simulated Facility Group) to limit the quantity of simultaneous calls terminating to the MLHG as INWATS calls. For 5E4(2) and later Software Releases, it is used to limit the quantity of calls terminating to a trunk group as INWATS calls.

When an incoming call is terminating to a Multi-Line Hunt Group, it first must be determined if this is an INWATS MLHG. This is defined on the associated MLHGFD form (5604 Record), with INWATS equal to "Y" or "N". If it is "Y", then the PFAINWT form is checked to see if there is limited access via an SFG. When an incoming call is terminating to a trunk group, the terminating TN is used as a key to determine whether or not a search for a matching PFAINWT form is performed. This TN must be defined on a LINE form (5109 Record); this LINE form must have a corresponding LCC form (5306 Record) where the TERMINATING TREATMENT is "TINWATS". The terminating Telephone Number also is used as the key to this information when terminating to an MLHG. If the PFAINWT form is not found, there is unlimited access to the terminals in the Multi-Line Hunt Group or trunk group.

If the form is found, the MC Route Index is used to access the MCRTIDX form (5304 Record) to determine which SFG to use. If all the "ports" of this SFG are busy, the NEXT MC ROUTE INDEX on the MCRTIDX form is checked to see if another INWATS SFG should be tried next or if the call should route to Reorder tone.

The terminals of the INWATS MLHG must all have a Line Class Code defined with a terminating treatment of "INWATS". However, they do not require any specific BRCS feature for INWATS termination.

> ***NOTE:*** AMA Call Code 008 is generated for any terminating port marked "INWATS" or "TINWATS". The 008 AMA record is used to bill the terminating subscriber for these types of calls (typically 800 calls).

1.1 Recent Change View

The corresponding Recent Change view for this form is 7.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number used to access the Multi-Line Hunt Group or Trunk Group as a terminating INWATS call. The TN may be any valid seven-digit Telephone Number served by this office.

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:

The first three digits of the TN must be defined in the OFFICE CODE field of a NOC form (5501 Record).

If the TN is defined in the LISTED TN or in a SUBTN field on an MLHG form (5110 Record), then the associated MLHGFD form must have the INWATS field set to "Y".

If this TN is defined on a MULTITN form (5114 Record), then the value for INWATS on the corresponding MULTITN form must be "Y".

If the TN is defined on a LINE form (5109 Record), then the associated LCC form (5306 Record) must have the TERMINATING TREATMENT field set to "TINWATS". If the TN is defined on an MLHLN form (5111 Record), then the associated MLHGFD form must have the INWATS field set to "Y".

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

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the PFAINWT 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 MC ROUTE INDEX

Description: Enter the MC Route Index.
Valid Entries:
    For 5E10 and earlier: 1 - 3617
    For 5E11 and 5E12: 1 - 4095
    For 5E13 and later: 1 - 16382

Data Rules:

The MC ROUTE INDEX entered must be defined on an MCRTIDX form (5304 Record) with an MC ROUTE TYPE of "SFG".

The MC ROUTE INDEX entered must not be assigned to a TERMINAL GROUP ID on a PFATG form (5609-2 Record).

```
                                  5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5609-4)                 INWATS SIMULATED FACILITY TN

*1. TN             __________
#2. MC ROUTE INDEX ____
```

Figure 1 SAMPLE PFAINWT FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 10E: 5609-5 RECORD
PRIVATE FACILITY ACCESS GROUP FORM - PFAGPA

1. GENERAL

1.1 Terminal Assignments

The 5609-5 Record is available with 5E2 and later Software Releases. It is used to define the group information for PFA (Private Facilities Access). Each terminal (line or trunk) which is to use the PFA capability must be assigned a PFA feature name defined on the PFAFD form (5609-1 Record) on the BFG, LINEFA, MLHLNFA, TKGRPFA, or TRUNKFA forms.

In addition, each terminal must be assigned to a PFA Group which may be defined as the default parameter of the PFAFD form, or on an individual terminal basis with the PFALPA, PFAMPA, or PFATPA forms. The preconstructed PFA feature provided does not define the PFA Group. Therefore, if the preconstructed feature is used, individual parameter forms must be entered for each terminal. PFA constructed features do not count toward the Constructed Feature Limit. See the CFL form (5712 Record) in Division 8 of this guide.

1.2 Circuit-Switched Calls

One PFA Group name is used for multiple PFA Access Codes on a group basis. However, for 5E6 and later Software Releases, one PFA group applies to either CSV (Circuit-Switched Voice) or CSD (Circuit-Switched Data) calls; one group cannot be used for both types (GROUP TYPE is "VOICE" or "CSD"). If the PFA call originator belongs to an IDP (Individualized Dialing Plan) Group, the PFA Access Codes are first translated in the IDPDCA form (5601-1/2 Record) with ACTION of "PFUSE", and the associated PFA feature name.

> ***NOTE:*** In the IDPDCA form, the Dialing State should equal "NORMAL", even though additional digits may be dialed. With an ACTION of "PFUSE",the responsibility of collecting digits is passed to the PFA capability. "PFUSE" is also allowed in the ODP (Office Dialing Plan) (see the PDIT form (5300-2 Record)) for customers who do not have an IDP.

1.3 Routing and Screening

In addition to specifying digit collection on a per Access Code basis, the PFAGPA also defines the RI (Route Index) or MC RI and the Code Index to use when the call enters the RAR form (5301 Record). (PFA dial codes used to access OUTWATS are an exception; special routing and screening in this case are discussed in Section 1.4 .)

For 5E6 and later Software Releases, the same RI can be used for CSV and CSD calls. However, if the same index is used, all calls must be routed through a PRI.

An MC RI is required for access to OUTWATS so the SFG (Simulated Facility Group) can be determined. An MC RI might also be used if for some reason an overflow route is an MC RI.

In all other cases, the additional information found on the MCRTIDX form (5304 Record) is not required, and therefore a RI should be entered and defined on an RTIDX form (5303 Record).

The CI (Code Index) entered on the PFAGPA form, and the originator's SI (Screening Index) are used in combination with a Prefix of "NONE" to determine the appropriate entry in the RAR form (5301 Record) to read. The primary purpose of reading the RAR form is to determine the CI. Usually, "REGL" would be found on the RAR form to indicate that the RI (or MC RI) from the PFAGPA form should be used. The Dialing Plan Access Treatment categories may be used on the IDPDCA form (5601-1/2 Record) to allow or disallow certain members of the IDP from accessing the PFA routes. Therefore, it should not be necessary to "screen out" originators via a Special RI in the RAR.

1.4 OUTWATS

When the PFA dial code is used to access OUTWATS, the call does not go directly to the RAR form. In this case, the Digit Collection Type is "P" for POTS digit analysis. The MCRTIDX form is accessed which would be defined with an SFG and a Carrier ID. The PFASFG form (5609-3 Record) contains the SI to be used. If access of an SFG "port" is successful, the call processing uses the originator's ODP to collect the additional digits. The call from this point on looks like a POTS call with a PIC of the Carrier ID on the MCRTIDX form, accessing the ICF and CDIM forms as necessary, and entering the RAR form. The SI from the PFASFG form will be used and line screening will be set to "Y" so that WATS band screening will be done. See the MCRTIDX and PFASFG forms for additional information on OUTWATS.

1.5 Senderized Tie Trunks

When the PFA dial code is used to access a nonoverlap senderized Tie Trunk, the PFA Group information needs to define specific digit collection items so that it can be determined when the proper number of digits have been dialed. For this case, DIG COLL is usually "FIX" or "VAR". "XY" might also be appropriate. Signal conversion and OLP (Overlap Outpulsing) should be "N". When dialing is done (and the correct number of digits have been dialed or received based on DIG COLL), the RI, or MC RI and Code Index, are used to continue call processing as described in Section 1.3 .

When the PFA dial code is used to access an overlap senderized Tie Trunk, the same information as the nonoverlap case is needed, except that OVLP OPLS, attempt OLP, is "Y". The number of digits to collect before attempting to overlap outpulse must also be known. This is entered in OVLP DIGS. For OLP to occur, the RTIDX (or MCRTIDX) specified must have OLP equal to "Y". If it is "N", the call will proceed like the nonoverlap case.

1.6 Cut-through Tie Trunks

When the PFA dial code is used to access a cut-through Tie Trunk, DIG COLL will be "N" for collect no digits. After normal routing and screening procedures, an outgoing trunk is seized and the talking connection completed. This trunk must belong to a TG with Cut-Through equal to "Y" (see the TKGRP form (5202-3 Record)). When the call originator dials succeeding digits, the 5ESS Switch does not analyze or count the digits, but must pass them through the switch and out on to the trunk.

If the originating digits are Touch-Tone and the digits sent out on the trunk are Touch-Tone, the 5ESS Switch will pass the digits through the switch. If either end (or both ends) are not Touch-Tone (e.g., DP (Dial Pulse)), then the 5ESS Switch must perform signal conversion. Signal conversion is only used for access to cut-through facilities. This is indicated by setting SIG CONV to "Y". The value entered in SIG CONV TIME is the end of dialing time out in seconds. This specifies the amount of time that the 5ESS Switch will wait between digits dialed. When this time expires, the 5ESS Switch assumes that the end of dialing has occurred and signal conversion is no longer provided. If the SIG CONV is "Y", and both ends are Touch-Tone, the 5ESS Switch knows that signal conversion is not needed and ignores the entry. However, if SIG CONV is "N", and either end is DP, the call will fail. Therefore, it is recommended that SIG CONV equals "Y" for all cut-through cases.

For private facility cut-through trunks that are not FX (Foreign Exchange) or CPE (Customer Premises Equipment), valid combinations of IN START DIAL and OUT START DIAL values are described in the TRUNK form. When the IN START DIAL and OUT START DIAL are both "WINK", the customer will not receive second dial tone from the far office. If the SCND DIAL TONE field is "Y", the customer will receive second dial tone before the trunk has been set up and may result in the first several digits dialed being dropped if the customer dials immediately after receiving second dial tone. Therefore, it is not recommended to enter "Y" in the SCND DIAL TONE field for cut-through facilities. In general, PFA allows the prefixing of digits on cut-through trunking, however, its use may produce undesirable results. When an OUT START DIAL of "IMED" and an IN START DIAL of "DLTN" is assigned and digits are prefixed, second dial tone will not be heard by the originator. Deletion of dial tone will not be heard by the originator. Deletion of digits on the RTIDX form is not allowed for cut-through facilities.

1.7 Common Control Switching Arrangement Networks

When the PFA dial code is used to access a CCSA (Common Control Switching Arrangement) network, the information required is either the overlap or nonoverlap senderized Tie Trunk application. For CCSA access, DIG COLL may be XY, where X equals 7 digits for on network, and Y equals 10 digits for off network. The typical application has the following fields with the indicated values:

Field	Value
X DIGS	7
Y DIGS	10
NTH POS	2
NTH DIG1	0
NTH DIG2	1

This table indicates that if the 2nd digit received (NTH POS) is a 0 or 1 (NTH DIG1 and 2), collect 10 digits (Y DIGS). If the 2nd digit received is not a 0 or 1 (i.e., it is not an Numbering Plan Area), then this call is on the private network so collect 7 digits (X DIGS).

1.8 Electronic Tandem Switching Networks

When the PFA dial code is used to access an ETS (Electronic Tandem Switching) network, the call should be treated as a cut-through Tie Trunk.

1.9 Enhanced Private Switched Communication Service Networks

When the PFA dial code is used to access an EPSCS (Enhanced Private Switched Communication Service) network, the information required for cut-through Tie Trunk is applicable. A special requirement for EPSCS access is the need to outpulse the Billing Number of the originating terminal to the receiving switch before the call is cut-through. This is called Automatic Station Calling Identification, and is invoked when the TG that this call is outgoing on has ANI (Automatic Number Identification) equal to "Y". See the TKGRP form (5202-3 Record).

1.10 Foreign Exchange Access

When the PFA dial code is used to access an FX trunk, the information is basically the same as the Tie Trunk applications. FX service allows a customer to have a line appearance on a Central Office which is in a service area different than the one that normally serves the customer. When the call originator dials an FX PFA Access Code, the FX trunk is seized (this is the normal serving office), and the far end (the foreign office) is cross connected to line equipment. Seizure on the trunk causes an origination on the line, similar to a regular line going off hook. Special signaling takes place between the two offices and must be specified as GS (Ground Start) or LS (Loop Start). This is indicated on the TRUNK form (5204-1 Record) for IN START DIAL and OUT START DIAL. The OUT START DIAL assigned to the FX trunk and the FX line must be configured compatibly. For example, if OUT START DIAL is "GRND", then the FX line should be GS. Outpulsing on an FX trunk can be "TT" or "DP". An FX trunk can be cut-through or senderized.

If this is one-way incoming or two-way FX trunk, additional information is required. Someone calls the DN

(Directory Number) associated with the line in the foreign office. Termination to the line causes a trunk origination at the normal serving office. By entering a Direct Connected DN on the TKGRP form (5202-3 Record), the call may terminate to a line in this office. The IN START DIAL on the TRUNK form has "DIRC" which triggers this. Because the signaling of Ground or Loop must be known for a one-way incoming, "GRND" or "LOOP" is entered in OUT START DIAL.

1.11 Customer Premises Equipment Access

When the PFA dial code is used to access CPE, the information required is similar to the cut-through Tie Trunk application. CPE trunks may be configured senderized, but the more common arrangement is cut-through. Examples of CPE are Radio Paging which broadcasts a radio signal to a pocket pager, and Recorded Telephone Dictation which allows the originator to record and edit verbal dictation sessions. Interpretation of any dialed digits following cut-through of the connection that control the page or dictation session are the responsibility of an interface trunk circuit which resides on customer premises. If the trunks require Sleeve Lead Scan Points for supervision of the trunks, then the TG must be defined with a Trunk Class of PFCPE. Otherwise, the Trunk Class PF may be used (see the TKGRP form). The only special requirement on the PFAGPA form is in the case of recorded dictation, the signal conversion should not be released. This is accomplished by setting SIG CONV TIME to 0. Office-to-office trunking with SIG CONV TIME of 0 and the use of call pickup for recorded dictation trunks is not allowed.

1.12 Trunk Access

Two Trunk Classes are for Tie Trunks and FX Trunks. These are PF and PFLASH. PFLASH allows flash repeating capabilities. PFCPE is for CPE that require Sleeve Lead supervision. To enable incoming calls from a Tie Trunk to access preliminary digit analysis types that are available in PDIT but not INDIT, it is permitted for Trunk Classes of PF and PFLASH to enter a Line Type Digit Analysis Selector on the TKGRP form (5202-1 Record).

1.13 PFA Trunk Access

When alternate routing is required for PFA trunk access, the trunk associated with the alternate route must have the same characteristics as the primary route's trunk. For example, if a primary route points to a cut-through trunk, then the alternate RI should also point to a cut-through trunk. A recorded dictation trunk can only have another recorded dictation trunk as the alternate route.

CFPF (Call Forwarding Over Private Facilities) calls may be routed to an ETS over non-senderized trunks (cut-through) assuming the terminating trunk has the ARS (Automatic Route Selection) feature assigned to it.

1.14 Recent Change View

The corresponding Recent Change View for this form is 7.1.

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 *PFA GROUP

Description: Enter the name of the PFA Group.

Required Field.
Valid Entries: 1 - 8 characters (no restriction)

2.3 *DIALCODE

Description: Enter the Dial Code used to access PFA.

Required Field.
Valid Entries: 1 - 5 digits (#, *, 0 - 9)

Data Rules:

This Access Code must be defined with action equal to PFUSE in the IDPDCA form (5601-1/2 Record) or in the PDIT form (5300-2 Record), depending on whether the call originator has an IDP or uses the ODP.

2.4 SAVE ACD

Description: Is the Access Code to be saved?

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

Data Rules:

If the entry is "Y", then the Access Code is part of the called number. Subsequent digits collected will be appended to the Access Code, and subsequent digit counts must include the quantity of digits in the Access Code.

2.5 SCND DIAL TONE

Description: Should Second Dial Tone be given?

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

Data Rules:

It is recommended that this field be "N" for access to cut-through trunks.

2.6 DIG COLL

Description: Enter the Digit Collection type.

Required Field.

Valid DIG COLL Entries

Entry	Definition
N	Used for cut-through. Subsequent digits are not analyzed or collected. SIG CONV and SIG CONV TIME are usually entered.
P	Used for the OUTWATS case, digits should be collected based on POTS digit analysis. ROUTE TYPE must be "MC".
FIX	Used when a fixed number of digits are to be collected. The fixed number must be entered in NUMB DIGS.
VAR	Used when a variable number of digits are to be collected. MAX DIGS, MIN DIGS, and INT DIG TIME must

	have entries.
XY	Used when two quantities of digits are to be collected based on the value of a digit collected. May be used for CCSA access. X DIGS, Y DIGS, NTH POS, NTH DIG1, and NTH DIG2 must have entries.

Data Rules:

For 5E5 and later:
If the DIG COLL is equal to "VAR", "XY", or "FIX", and the ROUTE TYPE on this PFAGPA form is equal to "MC", then the MC ROUTE INDEX on the matching MCRTIDX form (5304 Record) must equal the ROUTE INDEX on this PFAGPA form, and, the TRUNK GROUP NUMBER on the MCRTIDX form (5304 Record) must match the TGN on the TKGRP form (5202 Record), and, the CUT THRU field on the TKGRP form (5202 Record) must be "N" or blank.

If DIG COLL is "N" and ROUTE TYPE is "HUNT", then the ROUTE INDEX on this PFAGPA form must equal the ROUTE INDEX on the matching RTIDX form (5303 Record) and the TRUNK GROUP NUMBER on the RTIDX form (5303 Record) must match the TGN on the TRKGP form (5202 Record), and, CUT THRU on the TRKGP form (5202 Record) must be "Y".

If DIG COLL is "N" and ROUTE TYPE is "MC", then the ROUTE INDEX on this PFAGPA form must equal the MC ROUTE INDEX on the matching MCRTIDX form (5304 Record), and, the TRUNK GROUP NUMBER on the MCRTIDX form (5304 Record) must equal the TGN on the TKGRP form (5202 Record), and, CUT THRU on the TKGRP form (5202 Record) must be "Y".

If DIG COLL is "VAR", "XY", or "FIX" and ROUTE TYPE is "HUNT", then the ROUTE INDEX on this PFAGPA form must equal the ROUTE INDEX on the matching RTIDX form (5303 Record), and, the TRUNK GROUP NUMBER on the RTIDX form (5303 Record) must equal the TGN on the TKGRP form (5202 Record), and, CUT THRU on the TKGRP form (5202 Record) must be "N" or unknown.

2.7 ROUTE INDEX

Description: Enter the value of the RI or MC RI. The field ROUTE TYPE indicates which this is.

Required Field.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and later: 1 - 4095

Data Rules:

PFA Access to OUTWATS requires an MC RI. Other types of access may use either, but it is normally a RI.

2.8 GROUP TYPE

Description: Enter the type of call the PFA group is applicable to.

Software Release: 5E6 and later
Required Field.
Default: VOICE
Valid Entries:

Valid GROUP TYPE Entries

Entry	Definition
VOICE	"CSV calls
CSD	"CSD calls

Data Rules:

Defining a CSV PFA group is not required, however, if a CSD PFA group is defined, then a CSV PFA group also must be defined.

2.9 ROUTE TYPE

Description: Enter the Type of Route entered in ROUTE INDEX.

Required Field.

Valid ROUTE TYPE Entries

Entry	Definition
HUNT	The number is a POTS RI defined on the RTIDX form (5303 Record).
MC	The number is an MC RI defined on the MCRTIDX form (5304 Record).

Data Rules:

For 5E5 and later, if ROUTE TYPE is "MC" and DIG COLL is "P", the matching MCRTIDX form (5304 Record) must have a MC ROUTE TYPE set to "SFG."

2.10 CODE INDEX

Description: Enter the Code Index to be used to enter the RAR form (5301 Record).

Required Field.
Valid Entries: 1 - 4095

Data Rules:

For all types of Digit Collection, this is a required entry.

For 5E4(2) and later, if CODE INDEX is blank, ROUTE TYPE must be "MC".

2.11 SIG CONV

Description: Is signal conversion needed?

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

Data Rules:

When DIG COLL is "N", indicating a cut-through mode, signal conversion is required if either the originating or terminating side of the call is not Touch-Tone. "Y" is normally expected to be entered when DIG COLL is "N" because there is no interference with the call when both ends are Touch-Tone but will be available in case one end is not. If "Y" is entered, SIG CONV TIME must also be entered. For types of DIG COLL other than "N", enter "N".

2.12 SIG CONV TIME

Description: Enter the time in seconds to wait after each digit before deciding that dialing is over and no more signal conversion is required.

Valid Entries: 0, 4 - 12

Data Rules:

Leave this field blank unless SIG CONV is "Y". A value of 0 is used for cases where the Signal Conversion is required for the length of the call, such as would be the case for recorded dictation.

2.13 OVLP OPLS

Description: Is OLP to be attempted on this route?

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

Data Rules:

If "Y" is entered, OVLP DIGS must be entered. In order for OLP to be successful, the RTIDX (or MCRTIDX) form must be defined with OLP equal to "Y".

If DIG COLL is "P" or "N", OVLP OPLS must be "N".

For 5E5 and later if OVLP OPLS is "Y", DIG COLL may not be "P" or "N".

2.14 OVLP DIGS

Description: Enter the number of digits to collect before starting OLP.
Valid Entries:
  For 5E9(2) and earlier: 1 - 15
  For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless OVLP OPLS equals "Y".

When a value is entered and DIG COLL is:

- "FIX", the value must be less than the value entered in NUMB DIGS.
- "VAR", the value must be less than the value entered in MIN DIGS.
- "XY", the value must be greater than or equal to the NTH POS, and less than or equal to the value in both X DIGS and Y DIGS.

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.15 NUMB DIGS

Description: Enter the number of digits to collect.
Valid Entries:
  For 5E9(2) and earlier: 1 - 15

For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless DIG COLL is "FIX".

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.16 MAX DIGS

Description: Enter the maximum number of digits to collect.
Valid Entries: 1 - 15

Data Rules:

Leave this field blank unless DIG COLL is "VAR". If entered, the value must be greater than the value entered in MIN DIGS.

2.17 MIN DIGS

Description: Enter the minimum number of digits to collect.
Valid Entries:
For 5E9(2) and earlier: 1 - 15
For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless DIG COLL is "VAR". If entered, the value must be less than the value entered in MAX DIGS.

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.18 INT DIG TIME

Description: Enter the interdigital timing in seconds.
Valid Entries: 4 - 12

Data Rules:

Leave this field blank unless DIG COLL is "VAR". Digit collection through the MIN DIGS value is done by regular office timing defined on the TIMING form (5520 Record). The seconds entered here specify the interdigital timing interval for collection of any further digits up to the quantity specified in MAX DIGS. An interdigital timeout after the reception of the minimum digits signifies that dialing is complete.

2.19 X DIGS

Description: Enter the digits to collect if there is no match of dialed number to the number in NTH DIG1 or NTH DIG2 for the NTH POS.

Valid Entries:
- For 5E9(2) and earlier: 1 - 15
- For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless DIG COLL is "XY".

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.20 Y DIGS

Description: Enter the digits to collect if there is a match of dialed number to the number in either NTH DIG1 or NTH DIG2 for the NTH POS.
Valid Entries:
- For 5E9(2) and earlier: 1 - 15
- For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless DIG COLL is "XY". If entered, this value must not equal the value in X DIGS.

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.21 NTH POS

Description: Enter the digit position of the dialed number to check the values found in NTH DIG1 and NTH DIG2 to see if X DIGS should be collected or Y DIGS should be collected.
Valid Entries:
- For 5E9(2) and earlier: 1 - 15
- For 5E10 and later: 1 - 18

Data Rules:

Leave this field blank unless DIG COLL is "XY". If entered, this value must be less than or equal to both of the values found in X DIGS and Y DIGS.

For 5E10 and later, this field cannot have a value greater than 15 unless the 15 Digit IDDD secured feature has been purchased by the office. Therefore, the SFID 223 ACT field must be set to "Y" on the SFSYS form (5317-1 Record). For more information on this feature, see Division 2, Section 4A223.

2.22 NTH DIG1

Description: Enter the first value of the nth digit, in the NTH POS.
Valid Entries: 0 - 9

Data Rules:

Leave this field blank unless DIG COLL is "XY". If the Nth Digit of the dialed digit string is equal to either the digit entered in NTH DIG1 or NTH DIG2, the number of digits to collect is the value of Y DIGS. If the nth digit does not match, the number of digits to collect is the value of X DIGS.

2.23 NTH DIG2

Description: Enter the second value of the nth digit, in the NTH POS.
Valid Entries: 0 - 9

Data Rules:

Leave this field blank unless DIG COLL is "XY". If the Nth Digit of the dialed digit string is equal to either the digit entered in NTH DIG1 or NTH DIG2, the number of digits to collect is the value of Y DIGS. If the nth digit does not match, the number of digits to collect is the value of X DIGS.

2.24 QUEUE REQUEST

Description: Is queuing requested for this PFA group?

Software Release: 5E3 and later
Default: N
Valid Entries: Y, N

CFPF

Fields Section 2.25 - Section 2.33 are fields associated with CFPF (Call Forwarding Over Private Facilities).

2.25 ETS TRK IND

Description: Is this PFA GROUP associated with an ETS trunk for the CFPF?

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

To have CFPF this field must be "Y".

When "Y" is selected, the termination side of the trunk must have Auto ARS.

When ETS TRK IND is "Y", then DIG COLL must be "N".

When ETS TRK IND is "N", the fields associated with CFPF via ETS cut-through trunks must be entered as follows:

Field	Entry
ACCT CODE LNGTH	blank
ATH CODE LNGTH	blank
ATH ALW	N
ATH PROMPT	NONE
LEAD ACCT CODE	blank
PAUSE1	0
PAUSE2	0

PAUSE3	0

When ETS TRK IND is set to "Y", the TRUNK GROUP NUMBER on the associated TKGRP form (5202 Record) must have CUT THRU set to "Y".

2.26 ACCT CODE LNGTH

Description: Enter the number of digits in the Account Code used with the Account Code Feature assigned to the associated ETS cut-through trunk.

The ACCT CODE LENGTH will consist of the number of digits in the LEAD ACCT CODE plus the number of digits used for an account code. These are the digits that are expected at the destination end of the trunk.

Software Release: 5E5 and later
Valid Entries: 1 - 15

Data Rules:

When an ACCT CODE LNGTH is entered, PAUSE2 must have a nonzero value and ETS TRK IND must be "Y".

2.27 ATH CODE LNGTH

Description: Enter the number of digits in the Authorization Code that are to be saved and outpulsed if ATH ALW is set to "Y". These digits are the digits that are expected at the destination end of the trunk.

Software Release: 5E5 and later
Valid Entries: 1 - 15

Data Rules:

This field must be entered when the destination trunk is expecting an authorization code (ATH ALW of "Y").

When an ATH CODE LNGTH is entered, PAUSE3 must have a nonzero value and ETS TRK IND must be "Y".

2.28 ATH ALW

Description: Is the destination end of the trunk is expecting an Authorization Code to be sent?

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When ATH ALW is "Y", ATH CODE LNGTH must be entered, ATH PROMPT must not be "NONE" and ETS TRK IND must be "Y".

2.29 ATH PROMPT

Description: Enter the type of prompt that will be given to the user to indicate that the Authorization Code should be entered.

Software Release: 5E5 and later
Required Field.
Default: NONE
Valid Entries:

Valid ATH PROMPT Entries

Entry	Definition
BEEP1	One Beep
BEEP2	Two Beeps
BEEP3	Three Beeps
LEAVE	Party Leaving Tone
DIAL	Dial Tone
NONE	No Tones

Data Rules:

When this field is not "NONE", ETS TRK IND must be "Y" and ATH ALW must be "Y".

2.30 LEAD ACCT CODE

Description: Enter the three digits which may precede the account code digits. These are the digits that are expected at the destination end of the trunk.

Software Release: 5E5 and later
Valid Entries: 0 - 9 (the first digit may also be * or #)

Data Rules:

If this field is entered, the length of this field must be less than or equal to the ACCT CODE LNGTH and ETS TRK IND must be "Y".

2.31 PAUSE1

Description: Enter the length of time in seconds used to delay the digit outpulsing so that the termination end of a CFPF ETS is ready to collect digits. This is the time that is expected at the destination end of the trunk.

Software Release: 5E5 and later
Required Field.
Default: 0
Valid Entries: 0 - 10

Data Rules:

When PAUSE1 has a nonzero value, DIG COLL must be "N" and ETS TRK IND must be "Y".

2.32 PAUSE2

Description: Enter the first intermediate pause in seconds required for CFPF/ETS segmented signaling. It is used to cause a delay between the account code and the DN digit sequences for CFPF. This is the time that is expected at the destination end of the trunk.

Software Release: 5E5 and later
Required Field.
Default: 0
Valid Entries: 0 - 10

Data Rules:

When PAUSE2 has a nonzero value, ACCT CODE LNGTH must be greater than zero, DIG COLL must be "N" and ETS TRK IND must be "Y".

2.33 PAUSE3

Description: Enter the second intermediate pause in seconds required for CFPF/ETS segmented signaling. It is used to cause a delay between the DN and the authorization code digit sequences for the use of CFPF. This is the time that is expected at the destination end of the trunk.

Software Release: 5E5 and later
Required Field.
Default: 0
Valid Entries: 0 - 10

Data Rules:

When PAUSE3 has a nonzero value, ATH CODE LNGTH must be greater than zero, DIG COLL must be "N" and ETS TRK IND must be "Y".

```
 pfagpa                          5ESS Switch             _
(5609-5)                  OFFICE DATA ADMINISTRATION
                        PRIVATE FACILITY ACCESS GROUP

 * 1. PFA GROUP       1PFA1    12. OVLP OPLS      N       CFPF
 * 2. DIALCODE        555      13. OVLP DIGS      __
   3. SAVE ACD        N        14. NUMB DIGS      __  24. ETS TRK IND      N
   4. SCND DIAL TONE  N        15. MAX DIGS       15  25. ACCT CODE LNGTH  __
   5. DIG COLL        VAR      16. MIN DIGS       03  26. ATH CODE LNGTH   __
   6. ROUTE INDEX     0056     17. INT DIG TIME   04  27. ATH ALW          N
   7. GROUP TYPE      VOICE    18. X DIGS         __  28. ATH PROMPT       NONE
   8. ROUTE TYPE      HUNT     19. Y DIGS         __  29. LEAD ACCT CODE   ___
   9. CODE INDEX      0004     20. NTH POS        __  30. PAUSE1           00
  10. SIG CONV        N        21. NTH DIG1       _   31. PAUSE2           00
  11. SIG CONV TIME   __       22. NTH DIG2       _   32. PAUSE3           00
                               23. QUEUE REQUEST  N
```

Figure 1 SAMPLE PFAGPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 10F: 5609-6 RECORD
PRIVATE FACILITY ACCESS LINE (TN)
PARAMETER FORM - PFALPA

1. GENERAL

The 5609-6 Record is available with 5E2 and later Software Releases and is used to define Private Facility Access Line Parameters. The Line Parameter Form is used when a PFA constructed feature is assigned to a non-Multi-Line Hunt line and the desired parameters are different from the default parameters on the PFAFD form (5609-1 Record).

It is recommended that the default parameter, PFA Group name, be defined on the PFAFD form for the specific (constructed) PFA feature name. Then when the PFA feature name is assigned to a line on the LINEFA form (5112 Record) the default parameter will apply to that line without submitting a PFALPA form.

PFA constructed features do not count toward the office's Constructed Feature Limit. Therefore, there is no advantage to be gained in submitting a -PFALPA form. It is shown here for consistency with other BRCS features.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.28.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the line.
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 associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	Definition
ATND	50B Non-data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Software Release: 5E3 and later. Line to a PBX.

For 5E12 and later, TN/FEATURE combinations on different PFALPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the PFALPA 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 * FEATURE

Description: Enter the name of the PFA feature for which the parameters are to be assigned.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a PFA feature defined on the PFAFD form (5609-1 Record).

2.4 PFA GROUP

Description: For 5E6 and later, this field is renamed CSV PFA GRP.

Enter the name of the PFA Group of which this line is a member.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of a PFA Group defined on one or more PFAGPA forms (5609-5 Record).

2.5 CSV PFA GRP

Description: Enter the name of the Circuit-Switched Voice PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must match a PFA GROUP defined on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "VOICE". Defining a CSV PFA GRP for this port is not required; however, if a CSD PFA GRP is defined on this form, then a CSV PFA GRP also must be defined.

2.6 CSD PFA GRP

Description: Enter the name of the Circuit-Switched Data PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must match a PFA GROUP on the "PFAGPA form (5609-5 Record) that has a GROUP TYPE of "CSD". There cannot be CSD only groups for PFA service. This field can only be entered if CSV PFA GRP is entered.

The CSD PFA GRP name must differ from the CSV PFA GRP name; they cannot be the same.

2.7 QUEUE ALLOWED

Description: Is queuing allowed for this PFA feature? If "N" is entered, then calls originating from this PFA feature cannot be queued.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.8 PRIORITY QUEUE

Description: Does this PFA feature have a priority option? An entry of "Y" indicates that the calls in queue for this feature can be prioritized.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PRIORITY QUEUE is "Y", then QUEUE ALLOWED must be "Y".

```
  pfalpa                          5ESS Switch            _   No errors/warnings
 (5609-6)                  OFFICE DATA ADMINISTRATION
                 PRIVATE FACILITY ACCESS LINE (TN) PARAMETERS

 * 1. TN              9792019
 * 2. FEATURE         PFA1

   3. CSV PFA GRP     PFA2
   4. CSD PFA GRP     PFA1
   5. QUEUE ALLOWED   N
   6. PRIORITY QUEUE  N
```

Figure 1 SAMPLE PFALPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
pfalpa                             5ESS Switch            _
                           OFFICE DATA ADMINISTRATION
(5609-6)         PRIVATE FACILITY ACCESS LINE (TN) PARAMETERS

*1. TN       __________
*2. FEATURE ________

 3. CSV PFA GRP    ________
 4. CSD PFA GRP    ________
```

```
 5. QUEUE ALLOWED  N
 6. PRIORITY QUEUE N
```

Figure 2 SAMPLE PFALPA FORM   5E12 AND LATER SOFTWARE RELEASES

SEC. 10G: 5609-7 RECORD
PRIVATE FACILITY ACCESS LINE (MLHG/TERM)
PARAMETER FORM - PFAMPA

1. GENERAL

The 5609-7 Record is available with 5E2 and later Software Releases and is used to define Private Facility Access Multi-Line Hunt line parameters. The Line Parameter Form is used when a PFA constructed feature is assigned to a Multi-Line Hunt line, and the desired parameters are different from the default parameters on the PFAFD form (5609-1 Record).

It is recommended that the default parameter, PFA Group name, be defined on the PFAFD form for the specific (constructed) PFA feature name. Then when the PFA feature name is assigned to a Multi-Line Hunt line on the MLHLNFA form (5113 Record) the default parameter will apply without submitting a PFAMPA form.

PFA constructed features do not count toward the office's Constructed Feature Limit. Therefore, there is no advantage to be gained in submitting a PFAMPA form. It is shown here for consistency with other BRCS features.

1.1 Recent Change View

The corresponding Recent Change View for this form is 3.28.

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 * MLHG

Description: Enter the Multi-Line Hunt Group Number of the line.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: 1 - 8191

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Member Number of the line.
Valid Entries: 1 - 2015; 3001 - 3999 (for Outdial Terminals only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	Definition
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.

4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Software Release: 5E3 and later. Line to a PBX.

2.4 *FEATURE

Enter the name of the PFA feature for which the parameters are to be assigned.

Data Rules:
The name entered here must be that of a PFA feature defined on the PFAFD form (5609-1 Record).

2.5 PFA GROUP

Description: For 5E6 and later, this field has been renamed CSV PFA GRP.

Enter the name of the PFA Group of which the Multi-Line Hunt line is a member.

Software Release: 5E5 and earlier
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of a PFA Group defined on one or more PFAGPA forms (5609-5 Record).

2.6 CSV PFA GRP

Description: Enter the name of the Circuit-Switched Voice PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must match a PFA GROUP defined on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "VOICE". Defining a CSV PFA GRP for this port is not required; however, if a CSD PFA GRP is defined on this form, then a CSV PFA GRP also must be defined.

2.7 CSD PFA GRP

Description: Enter the name of the Circuit-Switched Data PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must match a PFA GROUP on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "CSD". There cannot be CSD only groups for PFA service; this field can only be entered if CSV PFA GRP is entered.

The CSD PFA GRP name must differ from the CSV PFA GRP name; they cannot be the same.

2.8 QUEUE ALLOWED

Description: Is queuing allowed for this PFA feature? If "N" is entered, then any calls originating from this

PFA feature cannot be queued.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.9 PRIORITY QUEUE

Description: Does this PFA feature have a priority option? An entry of "Y" indicates that the calls in queue for this feature can be prioritized.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PRIORITY QUEUE is "Y", then QUEUE ALLOWED must be "Y".

```
 pfampa                           5ESS Switch             _
(5609-7)                   OFFICE DATA ADMINISTRATION
             PRIVATE FACILITY ACCESS LINE (MLHG/TERM) PARAMETERS

 * 1. MLHG             0012
 * 2. TERM             0007
 * 3. FEATURE          PFA
   4. PFA GROUP        ABC
   5. QUEUE ALLOWED    Y
   6. PRIORITY QUEUE   Y
```

Figure 1 SAMPLE PFAMPA FORM 5E2 SOFTWARE RELEASE

```
 pfampa                           5ESS Switch             _
(5609-7)                   OFFICE DATA ADMINISTRATION
             PRIVATE FACILITY ACCESS LINE (MLHG/TERM) PARAMETERS


 * 1. MLHG             1234
 * 2. TERM             1092
 * 3. FEATURE          PFA1
   4. CSV PFA GRP      PFA2
   5. CSD PFA GRP      PFAD
   6. QUEUE ALLOWED    N
   7. PRIORITY QUEUE   N
```

Figure 2 SAMPLE PFAMPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 10H: 5609-8 RECORD
PRIVATE FACILITY ACCESS TRUNK (TGN/MEMB) PARAMETER FORM - PFATPA

1. GENERAL

The 5609-8 Record is available with 5E2 and later Software Releases and is used to define Private Facility Access Trunk parameters. The Trunk Parameter Form is used when a PFA constructed feature is assigned to a trunk and the desired parameters are different from the default parameters on the PFAFD form (5609-1 Record).

It is recommended that the default parameter, PFA Group name, be defined on the PFAFD Form for the specific (constructed) PFA feature name. Then when the PFA feature name is assigned to the Trunk Group via the TKGRPFA form (5206 Record) or to the individual trunk via the TRUNKFA form (5205 Record) the default parameter will apply to that trunk without submitting a PFATPA Form.

PFA constructed features do not count toward the office's Constructed Feature Limit. Therefore, there is no advantage to be gained in submitting a -PFATPA Form. It is shown here for consistency with other BRCS features.

1.1 Recent Change View

The corresponding Recent Change View for this form is 6.28.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TGN

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

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202-1 Record) must be one of the following.

TRKCLS	Definition
PF	Private Facility.
PFCPE	Private Facility Customer premise Equipment.
PFLASH	Private Facility Feature Flash.
PFITT	Software Release: 5E3 and later. Private Facility Inter-Tandem Trunk.
EDSL	Software Release: 5E8 and later. Extended Digital Subscriber Line trunk.
EDSLHM	Software Release: 5E8 and later. EDSL for Hotel/Motel TSPS service.

2.3 * MEMB

Description: Enter the Trunk Group Member Number of the trunk.
Valid Entries:

For 5E3 and later: 0 - 1951

2.4 * FEATURE

Description: Enter the name of the PFA feature for which the parameter is to be assigned.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a PFA feature defined on the PFAFD form (5609-1 Record).

2.5 CSV PFA GRP

Description: Enter the name of the Circuit-Switched Voice PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must match a PFA GROUP defined on a PFAGPA form (5609-5 Record) with a GROUP TYPE of "VOICE". Defining a CSV PFA GRP for this port is not required; however, if a CSD PFA GRP is defined on this form, then a CSV PFA GRP also must be defined.

2.6 CSD PFA GRP

Description: Enter the name of the Circuit-Switched Data PFA group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must match a PFA GROUP on the PFAGPA form (5609-5 Record) with a GROUP TYPE of "CSD". There cannot be CSD only groups for PFA service; this field can only be entered if CSV PFA GRP is entered.

The CSD PFA GRP name must differ from the CSV PFA GRP name; they cannot be the same.

2.7 QUEUE ALLOWED

Description: Is queuing allowed for this PFA feature? If "N" is entered, then any calls originating from this PFA feature cannot be queued.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.8 PRIORITY QUEUE

Description: Does this PFA feature have a priority option? An entry of "Y" indicates that the calls in queue for this feature can be prioritized.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PRIORITY QUEUE is "Y", then QUEUE ALLOWED must be "Y".

```
 pfatpa                          5ESS Switch             _
(5609-8)                  OFFICE DATA ADMINISTRATION
             PRIVATE FACILITY ACCESS TRUNK (TGN/MEMB) PARAMETERS

 * 1. TGN             0079
 * 2. MEMB            1291
 * 3. FEATURE         PFA3

   4. CSV PFA GRP     PFAV
   5. CSD PFA GRP     PFA3
   6. QUEUE ALLOWED   N
   7. PRIORITY QUEUE  N
```

Figure 1 SAMPLE PFATPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 10I: 5609-9 RECORD
PRIVATE FACILITY ACCESS GROUP DATA FORM - PFAGD

This section has been removed from the TG-5.

SEC. 11: TIME OF DAY FORMS

SEC. 11A: 5610-1 RECORD
TIME OF DAY FEATURE DEFINITION FORM - TODFD

1. GENERAL

The TODFD form is available with 5E2 and later Software Releases. The TOD feature allows a subscriber to control (i.e., preschedule) various aspects of other BRCS (business/residential) features through the use of dial codes. This feature allows the customer to set both the time and day for a particular action to occur. For example, for a specified day and time, a subscriber may wish to use the TOD feature to change an Interexchange Carrier for an IDP (Individual Dialing Plan) group, or simply, to activate or deactivate a feature, such as call forward night service. The TOD feature cannot be included in a BRCS Feature Group or assigned to a line that has a BRCS Feature Group.

Each TOD feature which is to act upon another BRCS feature must be defined. For each TOD Feature established, the TODFD form provides three basic types of feature information:

- Maximum Action Points, and Zero and One Parameter Codes - limitations on the feature.
- Control Group Data - BRCS features that TOD can have an effect upon.
- Subscriber-controlled functions - changes to the TOD schedule that the subscriber can effect.

It should be noted that, although the TODFD form establishes the unique permissions and contraints on a particular TOD Feature, a TODCL (Time of Day Code List) form (5610-2 Record) is required to identify the features and actions that are scheduled to occur on a particular line, terminal, or trunk (see Feature Name below).

1.1 Maximum Action Points and Parameter Codes

Action Points are tags used to identify each action or set of actions that are to occur on a given day and time. Each unique line, terminal, or trunk can have from one to thirty-two Action Points, but cannnot have more than eight TOD actions occurring at a single time for a specific Action Point.

Specific TOD Actions are designated via the Zero and One Parameter Codes on the TODCL form. Zero Parameter Codes designate "activate" and "deactivate" actions on a feature; One Parameter Codes designate actions which modify selected attributes of a BRCS feature. The TODFD form establishes limitations on the number of Action Points and Parameter Codes for a TOD feature; the TODCL form assigns specific actions to a given line, terminal of trunk. For a listing of the valid entries for TOD actions (i.e., Zero and One Parameter Codes), see the TODCL form.

For more detailed information on customer interaction with BRCS features for both the (ODP) Office Dialing Plan and the IDP Plan, see Divsion 2, Section 1F. For information defining dialed codes associated with ODPs (Office Dialing Plans), see Division 3, Section 3B (PDIT form, 5300-2 Record). For information defining codes associated with IDPs (Individual Dialing Plans), see the IDPDCA form (5601-1/2 Record; Division 4, Section 2B).

1.2 Control Group Data

The Control Group fields include: Control Line Private, Control Trunk, Control IDP Group, Control ARS Group, Control ATH Group, Control ACCT Group, Control ACVT Group, and Customer Activation. These parameters specify the BRCS features and/or groups that TOD can have an effect upon. These permissions are specific to the Feature Name. When a particular control field is set to "Y", this indicates that the TOD feature can control various options of that feature.

1.3 Subscriber-Controlled Parameters

The subscriber-controlled parameters define the allowable TOD Code Lists parameters that can be changed by the subscriber using dial codes. Dial codes must be defined in the PDIT form (5300-2 Record) or the IDPDCA form (5601-1/2 Record). Subscriber-controlled parameters include: Change Action Time, Change OWS (One Week Schedule), Change Code List, Add 0 Parm Code, Add 1 Parm Code, Delete 0 Parm Code List, Delete 1 Parm Code List, Delete All Lists, Default Code List Name. These parameters provide the subscriber with internal control assigned by the switch owner.

1.4 Feature Name

TOD features are assigned to a given line, terminal, or trunk via the LINEFA (Line Feature Assignment) form (5112 Record), the MLHLNFA (Multi-Line Hunt Group Member Feature Assignment) form (5113 Record), or to the TKGRPFA (Feature Assignment Trunk Group (5206 Record), respectively.

In addition, the TOD Code List associated with this feature must be assigned to the TODLPA (TOD Line Parameter) form (5610-3 Record), the TODMPA (TOD MLHG Terminal Parameter) form (5610-4 Record), and the TODTPA (TOD Trunk (TGN/MEMB) Parameter form (5610-5 Record) for line, terminal, or trunk, respectively.

1.5 Time of Day and Allocation of Memory

When the TOD feature is being used to control a group type of data, the feature is normally assigned to only one line or terminal for that group. When the TORC (Time Of Day Originated Recent Change) is applied to the group data, any line/terminal that uses that group will be affected. If the TOD feature controls group type data, the control field for the affected feature(s) should be set to "Y". All other control fields are set to "N". In this case, it is only necessary to assign the TOD feature to a single line (control line) that uses the group data. All other lines that use the group data do not require assignment to the TOD feature. This means, in terms of memory, that even though group data is redundantly populated as described above, the group data consists of only one line and thus memory allocation is kept to a minimum.

If the TOD feature controls line private data, the control field for the Line Private would be marked "Y". If TOD controls both group and line private data, only the affected control fields should be marked "Y". If any of the group type control fields are invalidly set to "Y" and the TOD feature does not control the features(s), significant additional memory allocation could result requiring unexpected and needless memory growth. This situation could result when TOD controls line private data (e.g., activation/deactivation of CFW (Call Forward) feature and one or more of the group control fields is also set to "Y" but TOD group control is not required. For example, if a hundred line centrex only desires TOD control of CFW on each line, and those same 100 lines are assigned to an ARS feature with the CONTROL ARS GROUP field set to "Y", then in addition to allocating memory for the line private data, significant additional memory will be allocated for ARS group data for 100 lines as described above. This additional allocation could ultimately result in Recent Change failure and a need for memory growth.

Another data item that significantly impacts on memory allocation is the MAX ACTION POINTS field. This field should only be set to the actual number of action points required by a TOD customer. This field has a default value of eight on all the preconstructed TOD features. If the customer requires only two action points (e.g., activation of CFW at 1800 and deactivation of CFW at 0800 on a dialy basis), then customization should be used to build a TOD feature specifying only two action points. Memory for TOD code list data for each line assigned a TOD feature is allocated based on the number of action points. In the above example, if MAX ACTION POINTS is eight, then memory is required for 800 code list entries, whereas if MAX ACTION

POINTS is two, only 200 code list entries are required.

1.6 Recent Change View

The corresponding Recent Change View for this form is 12.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, UNIT

Enter the BASE and CONTROL GROUP number and office name (UNIT) on each record.

2.2 *FEATURE NAME

Description: Enter the TOD Feature Name. There are no restrictions on the valid characters except that feature names with a slash (/) are reserved for preconstructed features.
Valid Entries: 1 - 8 characters.

2.3 REMARKS

Description: Enter a descriptive comment as necessary.
Valid Entries: 1 - 32 characters

2.4 MAX ACTION POINTS

Description: Enter the maximum number of Action Points for this TOD feature.

Required Field.
Default: 8
Valid Entries: 1 - 32

2.5 MAX ZERO PARM CODES

Description: Zero Parameter Codes are defined on the TODCL form. They are used to specify TOD "activate" and "deactivate" actions that can be associated with a TOD Code List. Enter the maximum number of Zero Parameter codes that can be entered on each TODCL form for this TOD Feature. For 5E2 only, the only allowed value is zero and this field cannot be entered.

> ***NOTE:*** The sum of the two fields must not equal zero. Thus, for 5E2 only, since the Max Zero Parm Code is defaulted to zero and cannot be changed, the Max One Parm Code must be greater than zero.
>
> Required Field.

Default:
For 5E2 only: 0
For 5E3 and later: 8

Valid Entries: 0 - 8

2.6 MAX ONE PARM CODES

Description: One Parameter Codes are defined on the TODCL form. They are used to specify TOD actions which can modify a feature. (e.g., change the active pattern group for an ARS group, or change the

Interexchange Carrier for an IDP group). Enter the maximum number of One Parameter Codes that can be entered on each TODCL form for this TOD Feature.

Required Field.
Default:
  For 5E2 only: 1
  For 5E3 and later: 8

Valid Entries: 0 - 8

2.7 CONTROL LINE PRIVATE

Description: Can the TOD feature change line private data? For 5E2 only, "N" is the only allowed value and this field cannot be entered.

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

> ***NOTE:*** For CONTROL LINE PRIVATE, CONTROL TRUNK, CONTROL IDP GROUP, CONTROL ARS GROUP, CONTROL ATH GROUP, CONTROL ACCT GROUP, and CONTROL ACVT all seven fields cannot be set to "N". At least one of these fields must be set to "Y".

2.8 CONTROL TRUNK

Description: Can the TOD feature change trunk data?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.9 CONTROL IDP GROUP

Description: Can the TOD feature change IDP (Individual Dialing Plan) Group data? For 5E2 through 5E6, "N" is the only allowed value and this field cannot be entered.

Required Field.
Default: N
Valid Entries:
  For 5E7 and later: Y, N

2.10 CONTROL ARS GROUP

Description: Can the TOD feature change ARS (Automatic Route Selection) Group data? For 5E2 only, "Y" is the only allowed value and this field cannot be entered.

Required Field.
Default: N

  For 5E2 only: Y
  For 5E3 and later: N

Valid Entries: Y, N

2.11 CONTROL ATH GROUP

Description: Can the TOD feature change ATH Group data?

> ***NOTE:*** TOD for CONTROL ATH GROUP can be temporary deactivated via the "INHIBIT TOD" field on the ATHGP (Authorization Code Group Definition) form (5619-2 Record).

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.12 CONTROL ACCT GROUP

Description: Can the TOD feature change Account Group data?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

2.13 CONTROL ACVT

Description: Can the TOD feature change the Attendant Control of Voice Terminals feature?

Software Release: 5E4(2) and later
Required Field.
Default: N
Valid Entries: Y, N

2.14 CUSTOMER ACTIVATION

Description: Can the customer activate/deactivate the TOD feature via a dialed code?

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

2.15 CHANGE ACTION TIME

Description: Can the customer change the Action Time (for a given Action Point) via a dialed code?

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

2.16 CHANGE OWS

Description: Can the customer change the One Week Schedule (for a given Action Point) via a dialed code?

Required Field.

Default: Y
Valid Entries: Y, N

2.17 CHANGE CODE LIST

Description: Can the customer change the TOD code list?

Software Release: 5E3 and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

When CHANGE CODE LIST is "N" the fields ADD 0 PARM CODE, ADD 1 PARM CODE, DELETE 0 PARM LIST, DELETE 1 PARM LIST, and DELETE ALL LISTS must be "N".

When CHANGE CODE LIST is "Y", at least one of the fields: ADD 0 PARM CODE, ADD 1 PARM CODE, DELETE 0 PARM LIST, DELETE 1 PARM LIST, and DELETE ALL LISTS must be "Y".

When either of the add or delete parameter code fields, or the DELETE ALL LISTS field is "Y", the CHANGE CODE LIST field must be "Y".

2.18 ADD 0 PARM CODE

Description: Can the customer add to the Zero Parameter Code List (for a given Action Point) via a dialed code? For 5E2 only, "N" is the only allowed value and this field cannot be entered.

Required Field.
Default:
    For 5E2 only: N
    For 5E3 and later: Y

Valid Entries: Y, N

Data Rules:

When ADD 0 PARM CODE is "Y", the DELETE 0 PARM LIST must be "Y".

When ADD 0 PARM CODE is "N", the DELETE 0 PARM LIST must be "N".

2.19 ADD 1 PARM CODE

Description: Can the customer add to the One Parameter Code List (for a given Action Point) via a dialed code?

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

Data Rules:

When ADD 1 PARM CODE is "Y", the DELETE 1 PARM LIST must be "Y".

When ADD 1 PARM CODE is "N", the DELETE 1 PARM LIST must be "N".

2.20 DELETE 0 PARM LIST

Description: Can the customer delete the Zero Parameter Code List (for a given Action Point) via a dialed code? For 5E2 only, "N" is the only allowed value and this field cannot be entered.

Required Field.
Default:
For 5E2 only: N
For 5E3 and later: Y

Valid Entries: Y, N

Data Rules:

When DELETE 0 PARM CODE is "Y", the ADD 0 PARM LIST, and CHANGE CODE LIST must be "Y".

If CHANGE CODE LIST is "Y" and DELETE ALL LISTS is "N", then both the ADD 0 PARM CODE field and the DELETE 0 PARM LIST fields must be equal.

2.21 DELETE 1 PARM LIST

Description: Can the customer delete the One Parameter Code List (for a given Action Point) via a dialed code?

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

Data Rules:

If CHANGE CODE LIST is "Y" and DELETE ALL LISTS is "N", then the ADD 1 PARM CODE field must equal the DELETE 1 PARM LIST field.

2.22 DELETE ALL LISTS

Description: Can the customer delete the Zero Parameter Code List and the One Parameter Code List (for a given Action Point) via a dialed code?

For 5E2 only, "N" is the only allowed value and this field cannot be entered.

> ***NOTE:*** This is a single dialed code which will delete both Parameter Code Lists of a given Action Point.
>
> Required Field.

Default:

For 5E2 only: N
For 5E3 and later: Y

Valid Entries: Y, N

Data Rules:

If CHANGE CODE LIST is "Y" and DELETE ALL LISTS is "N", then the ADD 0 PARM CODE and the ADD 1 PARM CODE must be equal.

2.23 DEFAULT CODE LIST NAME

Description: This field designates the method used by system processing to determine a default TOD Code List Name when no Code List Name has been specified on a corresponding TOD parameter assignment record (i.e., TODLPA, TODMPA, or TODTPA). If this field has been entered and if no code list name for this feature has been specified on a line, terminal, or trunk parameter form, the system will create a unique TOD code list name as outlined in the table below. If this field has been left blank, no default code list name will be created and a TOD code list name must be entered on the line, terminal, or trunk form.
Default: TN

The following table identifies the method used by system processing to determine a TOD code list name when one of the three valid entry values (TN, EN, or TK) is entered.
Valid Entries:

Valid DEFAULT CODE LIST NAME Entries

Entry	Definition
TN	If TN is entered, a TOD Code List Name will be generated (defaulted) which will consist of the letter "T" followed by the TN assigned to the corresponding LINE or MLHLN form.
EN	Software Release: 5E7 and earlier. If EN (Equipment Number) is entered, a TOD Code List Name will be generated (defaulted) which will consist of the TEN, DEN, LEN, or SLEN fields associated with the corresponding LINE, TRUNK, or MLHLN form.
TK	

ESS 5610-1(01)TG-5　　TIME OF DAY FEATURE DEFINITION RECORD　　DATE ___________
TODFD　　5ESS SWITCH
BASE______CONT GR____　　5ESS UNIT ___________________　　PAGE______

FEAT URE NA ME	M A P X O I A N C T T S I	M A P X A R Z M E R C	M A P X A R O M N E C	CONTROL DATA							C A U C S T T I O V M A E T R I	C A T H C I A T M N I E G V E A T	C O H W A S N G E	C C H O A D N E G E L I	A P D A D R M 0 C	A P D A D R M 1 C	D E P L A E R T M E L	D E P L A E R T M E L	D E A L L E L T E L I	D E L F I A S U T L T N	REMARKS
				L P I R N I E V A T	T R U N K	I G D R P O U P	A G R R S O U P	A G T R H O U P	A G C R C O T U P	A G C R V O T U P											

	O N	O O D E S	O D E S	E							O N	I O N		S T	O D E	O D E	0 I S T	1 I S T	S T S	A M E	
/TD*	08	0	1	N	N	N	Y	N	N	N	N	N	N	Y	N	N	N	N	N		WILD CARD TOD
/TDA CVT	08	8	0	Y	N	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	TN	TD FOR ACVT
/TDA RS	08	0	1	N	N	N	Y	N	N	N	N	N	N	Y	N	N	N	N	N	TN	TD FOR ARS
/TDD LX	08	8	8	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	TN	DELUXE TOD

Figure 1 PRECONSTRUCTED TIME OF DAY FEATURE LIST 5E7 SOFTWARE RELEASE

```
todfd                              5ESS Switch               _
(5610-1)                    OFFICE DATA ADMINISTRATION
                          TIME OF DAY FEATURE DEFINITION

*2. FEATURE NAME         TODIDP   3. REMARKS  ________________________________

 4. MAX ACTION POINTS    08       15. CHANGE ACTION TIME     Y
 5. MAX ZERO PARM CODES  8        16. CHANGE OWS             Y
 6. MAX ONE PARM CODES   8        17. CHANGE CODE LIST       Y
                                  18. ADD 0 PARM CODE        Y
 7. CONTROL LINE PRIVATE Y        19. ADD 1 PARM CODE        Y
 8. CONTROL TRUNK        N        20. DELETE 0 PARM LIST     Y
 9. CONTROL IDP GROUP    Y        21. DELETE 1 PARM LIST     Y
10. CONTROL ARS GROUP    N        22. DELETE ALL LISTS       Y
11. CONTROL ATH GROUP    N
12. CONTROL ACCT GROUP   N        23. DEFAULT CODE LIST NAME TN
13. CONTROL ACVT GROUP   N

14. CUSTOMER ACTIVATION  N
```

Figure 2 SAMPLE TODFD FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 11B: 5610-2 RECORD
TIME OF DAY CODE LIST DEFINITION FORM - TODCL

1. GENERAL

The TODCL form is available with the 5E2 and later Software Releases. It is used to define the TOD activities that will occur on a particular line, terminal, or trunk group at a specified time. This is done by associating these activities to a TOD Code List Name established for the line, terminal, or trunk. Each time interval is identified by assigning a unique Action Point. The two key fields for the TODCL form are: the CODE LIST NAME and the ACTION POINT number.

1.1 Code List Name

A Code List Name is assigned to each Line, Trunk or MLHG Terminal that is to have a TOD feature. This is accomplished using the appropriate TOD Parameter form: TODLPA (5610-3 Record) for lines, TODMPA (5610-4 Record) for terminals, or TODTPA (5610-5 Record) for trunks. The Code List Name is used to define the TOD activities that will occur for a Line, Terminal, or Trunk. The Code List Name entered on the TODCL must be the same as the Code List Name assigned to the respective parameter form, if any. If no parameter form is available, and if "TN" has been designated as the DEFAULT CODE LIST NAME on the TODFD form (5610-1 Record), for 5E11 and earlier software releases, the Code List Name will default to a "T", followed by a 7-digit Telephone Number. For 5E12 and later, a "T" is followed by a 10-digit Telephone Number. If "EN" is designated, the Code List Name will default to an 8-digit Equipment Number; if "TK" is designated, the Code List Name will default to a Trunk Group Member and Member Number.

1.2 Action Point

Action Points are assigned to the Code List Name to distinguish TOD activities occurring at different times. An Action Point is an identifying number assigned to an Action Time to associate one or more TOD feature activities scheduled to occur at the same time. Each Code List Name can have up to thirty-two Action Points. However, the number of TOD feature actions which can occur within a given Action Point (day/time) is limited to eight. The switch owner may also limit the actual number of Action Points that can exist for a specific TOD feature. This is done via the MAX ACTION POINTS field on the TODFD (TOD Feature Definition) form (5610-1 Record).

The scheduling parameters which define each Action Point consists of an ACTION TIME, ONE-WEEK SCHEDULE, a ZERO PARAMETER CODE LIST, and/or a ONE PARAMETER CODE LIST.

TOD feature can have as many TODCL forms as numerically specified by the MAXIMUM ACTION POINTS field on the TODFD form that defines the TOD feature.

1.3 Parameter Code Lists

The ZERO and ONE PARAMETER CODE LISTS are used to specify four major fields for the TOD feature: the dial CODE the customer would use to manually trigger the activity, the BRCS FEATURE affected, the ACTION to take place, and the USE IDP? indicator which specifies whether the customer's IDP (Individual Dialing Plan) is to be used to analyze the dial code. If any one of these four fields is populated, all must be populated.

For the ODP, the dial CODE, BRCS FEATURE, and ACTION are defined using the PDIT (Prefix/Feature Digit Interpreter) form (5300-2 Record) (See Division 3, Sections 3B.) For the IDP, the dial CODE, BRCS FEATURE, and ACTION are defined using the IDPDCA (Individualized Dialing Plan Dialed Code Assignment) form (5601-1/2 Records). (See Division 4, Section 2B.)

The ZERO PARAMETER CODE LIST is used to specify either an "activate" or "deactivate" type of activity on a specified BRCS feature. The ONE PARAMETER CODE LIST is used to specify a "modify" type activity on a specified BRCS feature. In addition to the dial CODE, the ONE PARAMETER CODE LIST also requires that an additional code (called PARAMETER) be entered to specify the type of modifying activity. Recall that the maximum number of activate/deactivate and/or modify actions that can be assigned to an Action Point for a given Code List Name cannot exceed eight.

When the customer uses the dial codes, the feature is said to be CORCable (Customer Originated Recent Change). When the TOD feature uses these dial codes, the feature is TORCed (Time of Day Originated Recent Change). Thus, the feature that TOD is to affect must be CORCable. See Division 2, Section 1F for a composite list of all dial code actions.

For 5E9(1) and later, if the code list is applied to a trunk group, USE IDP? on this form is "N", and DAS from the TKGRP form is defined on a DAS form where a PDIT is entered, then the PDIT and the corresponding CODE, FEATURE, and ACTION from this TODCL form must be defined in the ODP on a PDIT form as PDIT, DIGITS TO INTERPRET, FEATURE, and ACTION, respectively.

1.4 Recent Change View

The corresponding Recent Change View for this form is 4.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and office name (UNIT) on each record.

2.2 *CODE LIST NAME

Description: Enter the unique Code List Name assigned to the TOD feature for this line, trunk, or MLHG terminal.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: 1 - 11 characters

2.3 *ACTION POINT

Description: Enter the Action Point Number for this TODCL form.
Valid Entries: 1 - 32

Data Rules:

The number entered here must not exceed the value of the MAX ACTION POINTS entry on the TODFD form that defines the TOD Feature for this line or terminal.

2.4 ACTION TIME

Description: Enter the Action Time for this Action Point. This specifies the actual time that the TORCs specified on this TODCL form are to be executed.

The time entered must be military time and only at quarter hour intervals (i.e., 0015 specifies 12:15 a.m., 0230 specifies 2:30 a.m., 1200 specifies 12 noon, 2045 specifies 8:45 p.m., and 2400 specifies 12 midnight). A special value of 9999 designates a null action time.

Required Field.
Valid Entries: 0015 - 2400, 9999

2.5 IDP NAME

Description: Enter the IDP Name if an Individualized Dialing Plan is to translate CORCs (Customer Originated Recent Changes) to the TODCL form. The IDP Name should be the same as the IDP Group Name if an IDP feature was assigned to this line or terminal (IDP Group Name is assigned on either the IDPLPA form (5601-6 Record), IDPMPA form (5601-7 Record), IDPTPA form (5601-8 Record) or IDFD form (5601 Record)).
Valid Entries: 1 - 8 characters

Data Rules:

If an IDP Name was entered on any other TODCL form with this Code List Name, the IDP Name should be consistent and must also be the IDP group associated with the line, terminal or group. For 5E7 and later, if any USE IDP? is "Y", an IDP Name must be entered.

For 5E6 only, the IDP NAME and the corresponding CODE, FEATURE and ACTION list entries must be defined in the IDP on the IDPDCA form, or, the PDIT on a corresponding DAS form and the CODE, FEATURE and ACTION must be defined in the ODP on the PDIT form as PDIT, DIGITS TO INTERPRET, FEATURE and ACTION, respectively. The PDIT can be found by matching DAS on the TODCL form with DAS on a DAS form where PDIT is entered.

2.6 DAS

Description: Enter the Digit Analysis Selector to be used when an Office Dialing Plan is used to translate CORCs to the TODCL form.

Required Field.
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

If entered, this should be the same DAS that appears on the LCC form (5306 Record) for this line or MLHG terminal. For Trunk Terminals, the DAS entered should be the same DAS that appears on the TKGRP form (5202-1/2 Record) for the associated TGN/MEMB.

2.7 VALID LIST

Description: Is the TODCL form a valid Code List and is it to be linked to the customer's TOD feature? For ODA, this entry should always be entered as Y.

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

ONE WEEK SCHEDULE

The following fields (2.8 - 2.14) define the days of the week (Monday through Sunday) that this TOD Code List will be active.

Enter "Y" in the following fields which correspond to the days of the week that the codes in this action point are to be executed, otherwise enter "N".

For example, if this TOD Code List is to be active Monday through Friday, the fields SAT and SUN would both be entered as "N" while the remaining fields (MON-FRI) would be entered as "Y".

2.8 MON

Description: Will the Code List be active Monday?

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

2.9 TUE

Description: Will the Code List be active Tuesday?

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

2.10 WED

Description: Will the Code List be active Wednesday?

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

2.11 THU

Description: Will the Code List be active Thursday?

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

2.12 FRI

Description: Will the Code List be active Friday?

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

2.13 SAT

Description: Will the Code List be active Saturday?

Required Field.

Default: N
Valid Entries: Y, N

2.14 SUN

Description: Will the Code List be active Sunday?

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

ZERO PARAMETER CODE LIST

The following fields (2.15 - 2.18) define the Zero Parameter Codes consisting of 1) the Dial CODE, 2) whether or not an IDP is used to translate the Code, 3) the FEATURE that this Code will affect, and 4) the ACTION represented by this Code.

If a Wild Card feature is used, the feature must be of the type assigned to the line, terminal, or trunk, otherwise, the feature must be the exact feature assigned to the line, terminal, or trunk. Each non-null entry must have a corresponding entry in the IDP or ODP.

The number of rows completed on this TODCL must not exceed the number specified in the MAX ZERO PARM CODES on the TODFD form for this TODCL form.

The fields CODE, FEATURE, and ACTION are all required if any one of these fields are entered for a given row. For 5E7 and later, the USE IDP? field must also be entered.

For 5E3 and later, at least one entry must be populated in either the Zero Parameter Code List or the One Parameter Code List.

2.15 CODE

Description: Enter the dial code the customer would dial to activate or deactivate a BRCS feature. The first digit entered can be a *, # or a 0-9. All remaining digits must be 0-9.

Software Release: 5E3 and later
Valid Entries: 1 - 4 digits

2.16 USE IDP?

Description: Will an IDP be used to translate this CODE into a FEATURE and ACTION? If "N" is entered, an ODP (Office Dialing Plan) is used to translate this code.

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

For 5E7 and later, if USE IDP? is "Y", IDP NAME must be entered.

2.17 FEATURE

Description: Enter the BRCS Feature name that will be activated/deactivated by the CODE in this row. The Feature name entered here must be assigned to this line or terminal and it must have customer activation/deactivation capability.

Software Release: 5E3 and later
Valid Entries: 1 - 8 characters

Data Rules:

The feature entered must also be defined on a LINEFA form (5112 Record), MLHLNFA form (5113 Record), TRUNKFA form (5205 Record), or an associated CLUSTR form (5600 Record).

For 5E9(1) and later, when a scheduled call forwarding feature activation (or deactivation) is assigned to a Standard DSL line or a Standard DSL Multi-Line Hunt Group line, the ACT TYPE on the CFWFD form must be "CODE", "CDDN", "CDDNC", "CDDNCA", or "CDCA1A", and the DACT TYPE must be "CODE". If the scheduled call forwarding feature is assigned to a Custom DSL line or Custom DSL MLHG line, both ACT TYPE and DACT TYPE must be "CODE".

2.18 ACTION

Description: Enter the activate/deactivate Action to be taken by the CODE.

Required Field.

✎ ***NOTE:*** The Software Release in the Valid Entries table below refers to the use of these features for TOD.

Valid Zero Parameter ACTION Entries

Entry	Definition
ACCTACT	Software Release: 5E3 and later. Account Code feature activation.
ACCTDCT	Software Release: 5E3 and later. Account Code feature deactivation.
ACTCPNBN	Software Release: 5E6 and later. Activate CPN/BN feature.
ALTACT	Software Release: 5E3 and later. Activate Alternate Parameter set.
ATHACT	Software Release: 5E3 and later. Authorization Code feature activation.
ATHDCT	Software Release: 5E3 and later. Authorization Code feature deactivation.
ATHINS	Software Release: 5E3 and later. Authorization Code in service.
ATHOOS	Software Release: 5E3 and later. Authorization Code out of service.
CNDACT	Software Release: 5E6 and later. ICLID Calling Number Delivery activation.
CNDDCT	Software Release: 5E6 and later. ICLID Calling Number Delivery deactivation.
DALTACT	Software Release: 5E6 and later. Activate alternate parameter set for CSD (ARS).
DCTCPNBN	Software Release: 5E6 and later. Deactivate CPN/BN feature.
DFRLALT	Software Release: 5E6 and later. Alternate FRL feature is active for CSD (ARS).
DGPACT	Software Release: 5E6 and later. Activate an ARS group for CSD.
DGPDCT	Software Release: 5E6 and later. Deactivate an ARS group for CSD.

DMAINACT	Software Release: 5E6 and later. Activate main parameter set for CSD (ARS).
FRLALT	Software Release: 5E3 and later. Alternate FRL (Facility Restriction Levels) feature is active.
FRLDMAIN	Software Release: 5E6 and later. Main FRL feature is active for CSD (ARS).
FRLMAIN	Software Release: 5E3 and later. Alternate FRL (Facility Restriction Levels) feature is not active.
FTACT	Activate BRCS feature.
FTDCT	Deactivate BRCS feature.
GPACT	Software Release: 5E3 and later. Activate an ARS group. Software Release: 5E4(2) and later. Activate an ACVT group. Software Release: 5E7 and later. Activate IDP Group.
GPDCT	Software Release: 5E3 and later. Deactivate an ARS group. Software Release: 5E4(2) and later. Deactivate an ACVT group. Software Release: 5E7 and later. Deactivate IDP Group.
MAINACT	Software Release: 5E3 and later. Activate Main Parameter set.
TGACT	Software Release: 5E6 and later. Activate a Terminal Group feature.
TGDCT	Software Release: 5E6 and later. Deactivate a Terminal Group feature.

Data Rules:

When ACTION is "ACCTACT", "ACCTDCT", "ATHACT", "ATHDCT", "ATHINS", "ATHOOS", the CONTROL LINE PRIVATE or CONTROL TRUNK fields must be "Y" on the TODFD form (5610-1 Record).

When ACTION is "ACTCPNBN", "CNDACT", "CNDDCT", "DCTCPNBN", "FTACT", "FTDCT", "TGACT", or "TGDCT", the CONTROL LINE PRIVATE field must be "Y" on the TODFD form (5610-1 Record).

When ACTION is "ALTACT" or "MAINACT", the CONTROL ATH GROUP or CONTROL ACCT GROUP fields must be "Y" on the TODFD form (5610-1 Record).

When ACTION is "DALTACT" or "DMAINACT", the CONTROL ATH GROUP field must be "Y" on the TODFD form (5610-1 Record).

When ACTION is "DFRLALT", "DGPACT", "DGPDCT", "FRLALT", "FRLDMAIN", or "FRLMAIN", the CONTROL ARS GROUP field on the TODFD form (5610-1 Record).

When ACTION is "GPACT" or "GPDCT", the CONTROL ARS GROUP, CONTROL ACVT GROUP, or CONTROL IDP GROUP fields must be "Y" on the TODFD form (5610-1 Record).

ONE PARAMETER CODE LIST

For 5E3 and later, the ONE PARAMETER CODE LIST fields (2.20 - 2.24) are displayed in the following order: 1) the dial CODE the customer will use to activate the feature, 2) a USE IDP? indicator, 3) a FEATURE, 4) an ACTION, and 5) a PARAMETER to be passed to the One Parameter Feature. If any one of these five fields is entered, all of them must be entered.

If a Wild Card feature is used, the feature must be of the type assigned to the line, terminal, or trunk, otherwise, the feature must be the exact feature assigned to the line, terminal, or trunk. Each non-null entry must have a corresponding entry in the IDP or ODP.

The number of rows completed on this TODCL form must not exceed the number specified in the MAX ONE PARM CODES on the TODFD form that defines this TOD feature.

For 5E3 and later, there must be at least one entry in either the Zero Parameter Code List or the One Parameter Code List. For 5E7 and later, if USE IDP? is "Y", IDP NAME must be entered.

2.19 CODE

Description: Enter the dial code the customer will enter to identify the action to be taken with the One Parameter Feature. The first digit entered can be a *, # or a 0-9. All remaining digits must be 0-9.
Valid Entries: 1 - 4 digits

2.20 USE IDP?

Description: Will an IDP be used to translate this CODE into a FEATURE and ACTION? If "N" is entered, an ODP (Office Dialing Plan) is used to translate this code.
Valid Entries: Y, N

Data Rules:

For 5E7 and later, if USE IDP? is "Y", IDP NAME must be entered.

2.21 FEATURE

Description: Enter the BRCS feature name that will be affected by the associated ACTION.

Software Release: 5E3 and later
Valid Entries: 1 - 8 characters

Data Rules:

The feature entered here must also be defined on a LINEFA, MLHLNFA, TRUNKFA, or an associated CLUSTR form.

2.22 ACTION

Description: Enter the ACTION representing the type of change that will occur for the BRCS feature.

Valid One Parameter ACTION Entries

Entry	Definition
ACTON	
ACTOFF	Software Release: 5E7 and later. Set ACT in IDP off.
ARSCP	
ATHREQ	
ATHNRQ	
DARSCP	Software Release: 5E6 and later. Change ARS pattern group number for CSD.
GRPCARCH	Software Release: 5E7 and later. Change carrier group in IDP.

Data Rules:

If ACTION is "ARSCP" or "DARSCP":

- The PARAMETER entry must be in the range 1 - 6, and
- the CONTROL ARS GROUP field must be "Y" on the TODFD form (5610-1 Record).

If ACTION is "ACTON" or "ACTOFF", then the PARAMETER entry must be in the range of 01 - 32.

If ACTION is "ACTON", "ACTOFF", or "GRPCARCH", the CONTROL IDP GROUP field must be "Y" on the TODFD form (5610-1 Record).

If ACTION is "ATHREQ" or "ATHNRQ", CONTROL LINE PRIVATE or CONTROL TRUNK fields must be "Y" on the TODFD form (5610-1 Record) and the feature name assigned to the line, terminal, or trunk.

For 5E8 and earlier, if ACTION is "GRPCARCH", then the PARAMETER entry must be in the range 000 - 999. For 5E9(1) and later, if ACTION is "GRPCARCH", then the PARAMETER entry must be in the range 0000 - 9999.

2.23 PARAMETER

Description: Enter the parameter to be passed to the One Parameter Feature for this code.

Required Field.

Valid PARAMETER Entries

Entry	Definition
1 - 6	Parameter designation for ARS patterns only.
01 - 32	Software Release: 5E3 and later. Parameter designation for ACT category.
000 - 999	Software Release: 5E3 - 5E8. Primary Carrier.
0000 - 9999	Software Release: 5E9(1) and later. Primary Carrier.
1 - 8 Characters	Software Release: 5E3 and later. Name of the feature assigned to the line owning this code list.

Data Rules:

For 5E3 and later, if the One Parameter ACTION is "ATHREQ" or "ATHNRQ", then the PARAMETER may be a feature name defined on the ATHFCOS form (5619-4 Record).

When the PARAMETER is 1 - 6 and ACTION is "ARSCP" or "DARSCP", then the parameter entered must be less than or equal to the NUMBER PATTERN GROUPS ALLOWED field on the ARSGPA form (5608-2 Record) for the associated ARS GROUP NAME.

When the PARAMETER is 000 - 999 (5E3 - 5E8) or 0000 - 9999 (5E9(1) and later), it must equal CARRIER ID (the key) on an ICF form (5305 Record), and for 5E8 and later, FEAT GRP on the ICF form must also equal "D".

When the PARAMETER field is 01 - 32, the A.C.T. ALLOWED? field must be "Y" on the IDPGP form (5601-4 Record) for the IDP group that is on the line that owns this code list.

```
SCREEN 1 OF 3          5ESS OFFICE DATA ADMINISTRATION
todcl                            TIME OF DAY
(5610-2)                     CODE LIST DEFINITION

* 1. CODE LIST NAME  WHO               ONE WEEK SCHEDULE

* 2. ACTION POINT    02                    7. MON  Y
                                           8. TUE  Y
                                           9. WED  Y
  3. ACTION TIME     1800                 10. THU  Y
                                          11. FRI  Y
  4. IDP NAME        ________             12. SAT  N
                                          13. SUN  N
  5. DAS             01
```

```
SCREEN 2 OF 3          5ESS OFFICE DATA ADMINISTRATION   _
todcl                            TIME OF DAY
(5610-2)                     CODE LIST DEFINITION

                       > 14. ZERO PARAMETER CODE LIST

                 row     CODE   USE IDP?    FEATURE       ACTION
                 01      20         N       HI            FTACT
                 02      21__       Y       IDP2____      FTDCT__
                 03      ____       _       ________      _______
                 04      ____       _       ________      _______
                 05      ____       _       ________      _______
                 06      ____       _       ________      _______
                 07      ____       _       ________      _______
                 08      ____       _       ________      _______
```

```
SCREEN 3 OF 3          5ESS OFFICE DATA ADMINISTRATION   _
todcl                            TIME OF DAY
(5610-2)                     CODE LIST DEFINITION

                         19. ONE PARAMETER CODE LIST

          row   CODE    USE IDP?  FEATURE        ACTION     PARAMETER
          01    30         N      HG            ACTON        AB
          02    ____       _      ________      ________     ________
          03    ____       _      ________      ________     ________
          04    ____       _      ________      ________     ________
          05    ____       _      ________      ________     ________
          06    ____       _      ________      ________     ________
          07    ____       _      ________      ________     ________
          08    ____       _      ________      ________     ________
```

Figure 1 SAMPLE TODCL FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
todcl                             5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5610-2)               TIME OF DAY CODE LIST DEFINITION

*1. CODE LIST NAME ___________    ONE WEEK SCHEDULE
*2. ACTION POINT   __              7. MON N
#3. ACTION TIME    ____            8. TUE N
 4. IDP NAME       &dH________     9. WED N
#5. DAS            __             10. THU N
 6. VALID LIST     Y              11. FRI N
                                  12. SAT N
                                  13. SUN N
```

```
todcl                             5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5610-2)               TIME OF DAY CODE LIST DEFINITION

 14. ZERO PARAMETER CODE LIST
         USE
ROW CODE IDP? FEATURE  ACTION
 1  ____  _   ________ ________
 2  ____  _   ________ ________
 3  ____  _   ________ ________
 4  ____  _   ________ ________
 5  ____  _   ________ ________
 6  ____  _   ________ ________
 7  ____  _   ________ ________
 8  ____  _   ________ ________
```

```
todcl                             5ESS Switch            _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5610-2)               TIME OF DAY CODE LIST DEFINITION

      19. ONE PARAMETER CODE LIST
         USE
ROW CODE IDP? FEATURE  ACTION   PARAMETER
 1  ____  _   ________ ________ ________
 2  ____  _   ________ ________ ________
 3  ____  _   ________ ________ ________
 4  ____  _   ________ ________ ________
 5  ____  _   ________ ________ ________
 6  ____  _   ________ ________ ________
 7  ____  _   ________ ________ ________
 8  ____  _   ________ ________ ________
```

Figure 2 SAMPLE TODCL FORM 5E12 - 5E14 SOFTWARE RELEASES

```
todcl                             5ESS Switch
SCREEN 1 OF 3            OFFICE DATA ADMINISTRATION
(5610-2)              TIME OF DAY CODE LIST DEFINITION

*1. CODE LIST NAME ___________    ONE WEEK SCHEDULE
*2. ACTION POINT   __              7. MON N
#3. ACTION TIME    ____            8. TUE N
 4. IDP NAME       ________        9. WED N
#5. DAS            ___            10. THU N
 6. VALID LIST     Y              11. FRI N
                                  12. SAT N
                                  13. SUN N
```

```
todcl                             5ESS Switch
SCREEN 2 OF 3            OFFICE DATA ADMINISTRATION
(5610-2)              TIME OF DAY CODE LIST DEFINITION

 14. ZERO PARAMETER CODE LIST
         USE
ROW CODE IDP? FEATURE  ACTION
 1  ____  _   ________ ________
 2  ____  _   ________ ________
 3  ____  _   ________ ________
 4  ____  _   ________ ________
 5  ____  _   ________ ________
 6  ____  _   ________ ________
 7  ____  _   ________ ________
 8  ____  _   ________ ________
```

```
todcl                             5ESS Switch           _
SCREEN 3 OF 3            OFFICE DATA ADMINISTRATION
(5610-2)              TIME OF DAY CODE LIST DEFINITION

       19. ONE PARAMETER CODE LIST
         USE
ROW CODE IDP? FEATURE  ACTION   PARAMETER
 1  ____  _   ________ ________ ________
 2  ____  _   ________ ________ ________
 3  ____  _   ________ ________ ________
 4  ____  _   ________ ________ ________
 5  ____  _   ________ ________ ________
 6  ____  _   ________ ________ ________
 7  ____  _   ________ ________ ________
```

8 _____ _ __________ __________ __________

Figure 3 SAMPLE TODCL FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 11C: 5610-3 RECORD
TIME OF DAY LINE PARAMETER FORM - TODLPA

1. GENERAL

The 5610-3 Record is available with the 5E2 and later Software Releases. A TODLPA form must be entered for each individual line that is to have a TOD (Time of Day) feature. The TODLPA form specifies the TOD feature name and the TOD Code List name for a specific line. The key to this form is the Telephone Number of the line that is to have a TOD feature.

The other two entries are the feature name and the Code List name. The feature name assigned to this line must also appear on the LINEFA form or on a CLUSTR form assigned to this line. This TOD feature name must be defined on the TODFD (TOD feature Definition) form. Each Code List name assigned to a line, a Trunk Group member or an MLHG terminal must be unique. To insure that unique Code List names are used, it is recommended that the telephone number assigned to this line on the LINE form be used as the Code List name. The Code List name assigned here will be used as one of the keys to the TODCL (TOD Code List) form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the line that is to have a TOD feature.

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:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B non-data link console line or attendant line.
INDIV	Individual line.
PBX	Line to a PBX.
SATSTLN	Stand-alone test line.
4WINDIV	4-wire individual line or 4-wire manual PBX.
ISDN	ISDN Digital Subscriber Line.

For 5E12 and later, TN/FEATURE combinations on different TODLPA forms cannot be duplicated.

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

Description: Enter the TOD feature name.

Required Field.
Valid Entries: 1 - 8 characters

2.4 CODE LIST NAME

Description: Enter the TOD Code List name. If the DEFAULT CODE LIST NAME entry on the TODFD form that defines this TOD feature is marked "EN" (Equipment Number), the Equipment Number that is assigned to this line must be entered. If the DEFAULT CODE LIST NAME entry on the TODFD form (5610-1 Record) that defines this TOD feature is marked "TN" (Telephone Number), the Telephone Number that is assigned to this line must be entered.
Valid Entries:

- For 5E11 and earlier: 1 - 8 characters
- For 5E12 and later: 1 - 11 characters

```
todlpa                          5ESS Switch             _
(5610-3)                 OFFICE DATA ADMINISTRATION
                      TIME OF DAY LINE (TN) PARAMETERS



* 1. TN              3211234

  2. FEATURE         ABCTOD
  3. CODE LIST NAME  3211234
```

Figure 1 SAMPLE TODLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
todlpa                           5ESS Switch            _
                         OFFICE DATA ADMINISTRATION
(5610-3)              TIME OF DAY LINE (TN) PARAMETERS

*1. TN __________

#2. FEATURE           ________
 3. CODE LIST NAME ___________
```

Figure 2 SAMPLE TODLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 11D: 5610-4 RECORD TIME OF DAY MLHG TERMINAL PARAMETER FORM - TODMPA

1. GENERAL

The 5610-4 Record is available with the 5E2 and later Software Releases. A TODMPA form must be entered for each MLHG terminal that is to have a TOD feature. The TODMPA form defines the TOD feature name and the TOD Code List name for a specific MLHG terminal. The two keys to this form are the MLHG number and the terminal number of the MLHG terminal that is to have a TOD feature.

The other two entries are the feature name and the Code List name. The feature name assigned to this MLHG terminal must also appear on the MLHLNFA form or on a CLUSTR form assigned to this MLHG terminal. This TOD feature name must be defined on the TODFD form. Each Code List name assigned to an MLHG terminal, a Trunk Group member or a line must be unique. To insure that unique Code List names are used, it is recommended that the LEN or SLEN assigned to this MLHG terminal on the MLHLN form be used as the Code List name. The Code List name assigned here will be used as one of the keys to the TODCL form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group of the terminal that is to have a TOD feature.

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

2.3 * TERM

Description: Enter the Terminal number.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated CLASS OF SERVICE on a LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
PBX	Line to a PBX.

SATSTLN	Stand-Alone Test Line.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
ISDN	ISDN Digital Subscriber Line.

2.4 FEATURE

Description: Enter the TOD Feature name.

Required Field.
Valid Entries: 1 - 8 characters

2.5 CODE LIST NAME

Description: Enter the TOD Code List Name. If the DEFAULT CODE LIST NAME entry on the TODFD form that defines this TOD feature is marked "EN", the LEN or SLEN that is assigned to this MLHG terminal must be entered.

Required Field.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: 1 - 11 characters

```
todmpa                            5ESS Switch            _
(5610-4)                   OFFICE DATA ADMINISTRATION
                   TIME OF DAY LINE (MLHG/TERM) PARAMETERS



* 1. MLHG           0048

* 2. TERM           0026

  3. FEATURE        XYTOD
  4. CODE LIST NAME 00114221
```

Figure 1 SAMPLE TODMPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
todmpa                             5ESS Switch           _
                           OFFICE DATA ADMINISTRATION
(5610-4)            TIME OF DAY LINE (MLHG/TERM) PARAMETERS

*1. MLHG ____
*2. TERM ____

#3. FEATURE        ________
#4. CODE LIST NAME ___________
```

Figure 2 SAMPLE TODMPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 11E: 5610-5 RECORD
TIME OF DAY TRUNK (TGN/MEMB)
PARAMETER FORM - TODTPA

1. GENERAL

The 5610-5 Record is available with 5E3 and later Software Releases. A TODTPA form must be entered for each trunk that is to have a TOD feature. The TODTPA form defines the TOD feature name and the TOD Code List name for a specific trunk.

The FEATURE NAME assigned to this trunk must also appear on the TRUNKFA form or the TKGRPFA form or on a CLUSTR form assigned to this trunk. This TOD feature name must be defined on the TODFD form. Each Code List name assigned to the trunk, MLHG terminal or a line must be unique. To ensure that unique Code List names are used, it is recommended that the DEN or TEN assigned to this trunk on the TRUNK form be used as the Code List name. The Code List name assigned here will be used as one of the keys to the TODCL form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.30.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 * TGN

Description: Enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be "PF" (Private facility) or "PFLASH" (Private facility feature flash).

2.3 * MEMB

Description: Enter the Trunk Group Member number of the trunk.

Required Field.
Valid Entries: 0 - 1951

2.4 FEATURE

Description: Enter the TOD Feature name. There are no restrictions on the valid characters, except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

2.5 CODE LIST NAME

Description: Enter the TOD Code List Name. If the Default Code List Name on the TODFD form is "TK", then the TGN should be entered in the first four characters of the field and the Member Number should be entered in the last four characters of the field.

Required Field.
Valid Entries:
    For 5E11 and earlier: 1 - 8 characters
    For 5E12 and later: 1 - 11 characters

```
todtpa                           5ESS Switch             _
(5610-5)                  OFFICE DATA ADMINISTRATION
                   TIME OF DAY TRUNK (TGN/MEMB) PARAMETERS



* 1. TGN             0025
* 2. MEMB            0043

  3. FEATURE         /TDARS
  4. CODE LIST NAME  XYZ
```

Figure 1 SAMPLE TODTPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
todtpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5610-5)            TIME OF DAY TRUNK (TGN/MEMB) PARAMETERS

*1. TGN  ____
*2. MEMB ____

#3. FEATURE        ________
#4. CODE LIST NAME ___________
```

Figure 2 SAMPLE TODTPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 12: TERMINAL GROUP ATTENDANT FORMS

SEC. 12A: 5611 RECORD
TERMINAL GROUP ATTENDANT FORM - TGATTD

1. GENERAL

The 5611 Record is available with 5E2 and later Software Releases. It is used to define information (such as attendant DN, Source Billing, and SDN DAS) on a Terminal Group basis.

The Terminal Groups (Group IDs) must be defined on TGSRFD forms (5607-2 Record). The Attendant TN can be an individual line or a Multi-Line Hunt Group, with a CLASS OF SERVICE of "ATND" on the LCC form (5306 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.4.

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 *GROUP ID

Description: Enter the Terminal Group Identification Number.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

This number must be defined on the TGSRFD, TGSRLPA or TGSRMPA forms (5607 Records). All members of a Multi-Line Hunt Group must be in one Terminal Group.

2.3 ATTENDANT TN

Description: Enter the Telephone Number of the Attendant of the BRCS (Business and Residence Custom Services) Terminal Group.
Valid Entries:
For 5E11 and earlier: 7 digits
For 5E12 and later: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and
X is 0 - 9

Data Rules:

If ATTENDANT TN is assigned on this form, it must also be defined on the LINE form, the MLHLN form, or the DSLUSR form as CKT TN or CKT MLHG TN, or on the MLHG form as a listed TN or as a MUPH SUBGROUP TN with an associated equipment number on member 1.

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

NPA/OFFICE CODE defined on the NOC form.

2.4 SRC BILL

Description: Will the source party's billing TN replace the attendant's billing TN in the billing record during an intra-terminal group call extension via the attendant?

If "Y" is entered, the attendant's TN will be replaced in the billing record by the source party's billing TN. If "N" is entered, the attendant TN will remain in the billing record.

Software Release: 5E6 and later
Default: N
Valid Entries: Y, N

2.5 SDN DAS

Description: Enter the DAS (Digit Analysis Selector) that will be used for SDN (Software Defined Network) Originations from analog and BRI lines within this Terminal Group. This DAS is used to route only SDN calls originated via a dialed code (ACTION on the PDIT form (5300-2 Record) or IDPDCA form (5601-1 Record) is set to "SDNUSE") or a feature button (ACTION on the CFGGRP form (5964 Record) is set to "SDNUSE"). This DAS is not used to route SDN calls via Automatic Route Selection.

When SDN calls are routed via this SDN DAS, the route indexes and code indexes on the ICF form (5305 Record) do not replace any previously obtained route index and code index.
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

The SDN DAS must be defined as the DIGIT ANALYSIS SELECTOR on a DAS form (5300-1 Record). The LOCAL DIT entered on that DAS form cannot appear on an LDIT or MLDIT form (5300-3 Record) where the TYPE OF CI CALL is "PSNCI" or "PSCAR". The LOCAL DIT must also appear on the SMLDIT form (5315 Record) along with all SMs which have Lines or MLHG Terminals which are members of the Terminal Groups specified by GROUP ID. The SM number may be obtained from the first three digits of the OE NUMBER field on the LINE, MLHLN and DSLUSR forms.

Also, on the LDIT or MLDIT form, CALL TYPE should be set to "NORMAL".

For 5E12 and later, each SDN DAS assigned on the TGATTD form assigns an LDIT (via the LOCAL DIT field on the corresponding DAS form) to one or more SMs (via the first three digits of the OE or OE NUMBER field on the specified LINE, MLHLN, and DSLUSR forms). When the LINE, MLHLN, and DSLUSR forms have been assigned a TGSR feature (defined on a TGSRFD form), and the GROUP ID from the TGATTD form has been assigned on a corresponding BFG, TGSRFD, TGSRLPA, or TGSRMPA form, then each LDIT assigned in this way, and its associated SMs, must be defined on the SMLDIT form.

2.6 MBG ID

Description: This field cannot be entered. It is a Recent Change verify field for View 4.4. For more information on MBG see CENTREX Network secured feature section in Division 2, Section 4A181. Also see the MBG form, Division 4, Section 22A.

The MBG ID uniquely identifies a Multiswitch Business Group on a switch wide basis. It is defined on the MBG form, which is used by the CENTREX Network. CENTREX Network is a Secured Feature that must be purchased by the office before CENTREX Network data can be entered on this form. Therefore, the ACT field for SFID 181 on the SFSYS form (5713-1 Record) must be set to "Y".

Software Release: 5E9(2) and later.

MUSIC ON HOLD

The TGN and MEMB fields (Section 2.7 - Section 2.9) are applicable to the Music on Hold secured feature and define the music source that is to provide music to the held party once a call has been placed on hold. These fields are only applicable when Secured Feature ID 64 is set to "S" ("Y" for 5E9(1) and later) on the SFSYS form (5713-1 Record).

2.7 TGN

Description: Enter the trunk group used as the music source.

Software Release: 5E7 and later
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

Before data can be entered in this field, the ACT field for Secured Feature ID 64 must be set to "Y" on the SFSYS form (5713-1 Record).

If either TGN or MEMB is entered, then both must be entered.

When a GROUP ID is defined on this form with MUSIC ON HOLD TGN and MEMB entered, the TGN and MEMB must be defined on a corresponding TRUNK form (5204 Record) with MUSIC SOURCE set to "Y".

▲ **WARNING:** For 5E11 and later, the selected music (on hold) source (TGN and MEMB) must not be shared by any other music source. Therefore, the TGN from the TGATTD form (5611 Record) should not match the TRUNK GROUP MEMBER from the RTIDX form (5643 Record).

2.8 MEMB

Description: Enter the trunk member used as the music source.

Software Release: 5E7 and later
Valid Entries: 1 - 1951

Data Rules:

Before data can be entered in this field, the ACT field for Secured Feature ID 64 must be set to "Y" on the SFSYS form (5713-1 Record).

If either TGN or MEMB is entered, then both must be entered.

When a terminal GROUP ID is defined on this form with MUSIC ON HOLD TGN and MEMB entered, the TGN and MEMB must be defined on a corresponding TRUNK (5204 Record) form with MUSIC SOURCE set to "Y".

2.9 NO SOFT HOLD

Description: Prohibit Music on Hold during soft hold? This field specifies whether to prohibit music on soft hold for custom ISDN lines in this terminal group. Enter "Y" to prohibit or "N" to allow music on soft hold for custom ISDN lines in this terminal group that are being either transferred or conferenced.

> ▲ **WARNING:** MOH (Music On Hold) is a Secured Feature that must be enabled. If the MOH feature is not enabled, music will not be provided even if this field is set to "N". For more information on the MOH feature, see Division 2, Section 4A64.

Software Release: 5E10 and later
Required Field.
Default Values: N
Valid Entries: Y, N

Data Rules:

When NO SOFT HOLD is "Y", TGN and MEMB must be entered.

CALL PARK

The following fields (Section 2.10 - Section 2.11) specify the answer back or retrieve timeout limit for ring back of a parked call. These fields are applicable when SFID 124 ACT field is set to "Y" on the SFSYS form (5713-1 Record).

2.10 PARK TIME

Description: Enter the answer back or retrieve timeout limit for ring back of a parked call for non-attendant lines in the terminal group.

Software Release: 5E9(1) and later
Valid Entries: 30 - 360 in 30 second increments

2.11 ATND PARK TIME

Description: Enter the attendant answer back or retrieve timeout limit for ring back of a call parked against the terminal group attendant's DN or a DN with attendant class of service.

Software Release: 5E9(1) and later
Valid Entries: 30 - 360 in 30 second increments

2.12 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the OFCOPT (Office Option) form (5509 Record), RC view (8.1).

NUMBER PORTABILITY

2.13 *PORTED

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

Required Field.

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

2.14 OVRD DNY XFER

Description: The OVRD DNY XFER field was added to allow terminal groups to override the "Deny Transfer of Digit Screened Calls" feature.

Required Field.

Software Release: 5E12 and later
Default: N
Valid Entries: Y, N

Data Rules:

When OVRD DNY XFER is set to "Y", this indicates that this terminal group is allowed to override denials during a call transfer.

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

2.15 CONTEXT ID

Description: This field is used to indicate whether or not a terminal group 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:

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

2.16 CTE ALW

Description: The CTE (Call Transfer Enhancement) ALW (Allowed) field is used to indicate whether or not the CTE option is allowed on this Terminal Group.

Software Release: 5E16(2) and later
Default: N
Valid Entries: Y, N

Data Rules:

When the CTE ALW is set to "Y", the ACT field for SFID 588 on the SFSYS form (5713-1 Record) must also be set to "Y".

```
tgattd                            5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5611)                 TERMINAL GROUP ATTENDANT AND DATA

*1. GROUP ID ______               CALL PARK
 2. ATND TN  __________     9. PARK TIME      ___
 3. SRC BILL N             10. ATND PARK TIME ___
 4. SDN DAS  __
    MBG ID   ______        11. CNIGI NULL

    MUSIC ON HOLD          NUMBER PORTABILITY
 6. TGN          _____     12. PORTED N
 7. MEMB         _____
 8. NO SOFT HOLD N         13. OVRD DNY XFER N
                           14. CONTEXT ID    N
```

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

```
tgattd                            5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5611)                 TERMINAL GROUP ATTENDANT AND DATA

*1. GROUP ID ______               CALL PARK
 2. ATND TN  __________     9. PARK TIME      ___
```

```
 3. SRC BILL N             10. ATND PARK TIME ___
 4. SDN DAS  __
    MBG ID   _____         11. CNIGI NULL

    MUSIC ON HOLD           NUMBER PORTABILITY
 6. TGN          ____      12. PORTED-IN AMA N
 7. MEMB         ____
 8. NO SOFT HOLD N         13. OVRD DNY XFER N
                           14. CONTEXT ID    NATIVE
```

Figure 2 SAMPLE TGATTD FORM 5E14 SOFTWARE RELEASE

```
tgattd                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5611)                 TERMINAL GROUP ATTENDANT AND DATA

*1. GROUP ID _____                CALL PARK
 2. ATND TN  __________     9. PARK TIME       ___
 3. SRC BILL N             10. ATND PARK TIME ___
 4. SDN DAS  ___
    MBG ID   _____         11. CNIGI NULL

    MUSIC ON HOLD           NUMBER PORTABILITY
 6. TGN          ____      12. PORTED-IN AMA N
 7. MEMB         ____
 8. NO SOFT HOLD N         13. OVRD DNY XFER N
                           14. CONTEXT ID    NATIVE
```

Figure 3 SAMPLE TGATTD FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```
tgattd                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5611)                 TERMINAL GROUP ATTENDANT AND DATA

*1. GROUP ID _____                CALL PARK
 2. ATND TN  __________     9. PARK TIME       ___
 3. SRC BILL N             10. ATND PARK TIME ___
 4. SDN DAS  ___
    MBG ID   _____         11. CNIGI NULL

    MUSIC ON HOLD           NUMBER PORTABILITY
 6. TGN          ____      12. PORTED-IN AMA N
 7. MEMB         ____
 8. NO SOFT HOLD N         13. OVRD DNY XFER N
                           14. CONTEXT ID    NATIVE
```

Figure 4 SAMPLE TGATTD FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 13: MULTIPOSITION HUNT BUSY KEY FORM

SEC. 13A: 5612 RECORD
MULTIPOSITION HUNT BUSY KEY FORM - MUPHKEY

1. GENERAL

The 5612 Record is available with 5E2 and later Software Releases. It is used to assign Position Make Busy Keys on a Multi-Line Hunt Group and Position basis.

The MUPHKEY form is used only when the field HUNT TYPE is equal to "MUPH" on the MLHGFD form (5604 Record). If the MUPHKEY form is present, the Multi-Line Hunt Group is found on the MLHG form (5110 Record) by matching the FEATURE NAMEs between the MLHGFD and the MLHG forms.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.6.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number.

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

Data Rules:

Examine all MLHGFD forms for HUNT TYPE equal to "MUPH", then use an MLHGFD preconstructed feature to match an entry on the MLHGFD form (5604 Record) to get the associated Multi-Line Hunt Group value. This MLHG value must then be defined in this field.

2.3 * POSITION

Description: Enter the position of the console which is assigned the Position Make Busy Key.

Required Field.
Valid Entries: 1 - 16

2.4 POS BUSY SPN

Description: Enter the unique position scan point for each position.
Valid Entries: a 9 digit scan point in the following format.

SCAN POINT NUMBER			
Equipment		**Format**	**Valid Entries**
Switching Module	SM	XXX	1-192 (See Note)
Metallic Service Unit	MSU		0-1

Service Group	SVG	X	0-1
Board	BRD	XX	00-31
Scan Point Number	SPN	XX	00-30

NOTE: For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1 - 48; for offices equipped with CM2, valid entries are 1 - 192.

```
muphkey                          5ESS Switch         _
(5612)                     OFFICE DATA ADMINISTRATION
                         MULTIPOSITION HUNT BUSY KEY

* 1. MLHG            0031
* 2. POSITION        02
  3. POS BUSY SPN    012010205
```

Figure 1 SAMPLE MUPHKEY FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 14: FEATURE KEY FUNCTION LIST FORM

SEC. 14A: 5613 RECORD
FEATURE KEY FUNCTION LIST FORM - FTRKEY

1. GENERAL

The 5613 Record is available with 5E2 and later Software Releases. This miscellaneous record is used to assign a scan point which controls a state of a feature on a line. It allows any line to be associated with a scan point that is tied to a feature key which can be turned on or off for any call forwarding or IDP features. A particular SPN must be associated with a feature key.

1.1 Recent Change View

The corresponding Recent Change view for this form is 4.3.

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 * FTR SPN

Description: Enter the Feature Key Scan Point Number.

Required Field.
Valid Entries: a 9-digit scan point in the following format.

SCAN POINT NUMBER

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192 (See Note)
Metallic Service Unit	MSU		0-1
Service Group	SVG	X	0-1
Board	BRD	XX	00-31
Scan Point Number	SPN	XX	00-30

NOTE: For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1-48; for offices equipped with CM2, valid entries are 1-192.

2.3 TN

Description: Enter the 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 TN or MLHG and MEMB must be entered. If a TN is entered, MLHG and MEMB must not be entered.

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

2.4 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

2.5 TERM

Description: Enter the Multi-Line Hunt Group terminal number.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only).

2.6 FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

Each entry in this field must be defined on a CFWFD form (5614-1/2 Record) or IDPFD form (5601 Record).

ON/OFF HOOK FUNCTION

The following fields (Section 2.7 - Section 2.10) define the on/off hook key function. The hook function will look through that line's keys to see if the currently deleted feature is referenced. If such a reference is found, the scan point will be deassigned and the key will no longer function.

The on hook action indicates the key is depressed and the off hook action indicates the key is released.

ON HOOK FUNCTION

2.7 ACTION

Description: Enter the Attendant and Multi-Line Hunt Group feature action for the on hook action function.

Required Field.

Valid ACTION Entries

Entry	Definition
FTACT	Activate BRCS feature.
FTDCT	Deactivate BRCS feature.
ACTON	Activate Alternate Code Treatment.
ACTOFF	Deactivate Alternate Code Treatment.

Data Rules:

If the on hook ACTION is activate, then the off hook ACTION must be deactivate. If the off hook ACTION is deactivate, off hook ACTION must be activate.

For 5E8 and later, if on hook ACTION is "FTACT" or "FTDCT", the feature must be defined on the CFWFD form with ACT TYPE set to "KEY".

2.8 PARAMETER

Description: Enter the Alternate Code treatment set for the on hook parameter function.
Valid Entries: 1 - 32

Data Rules:

If on hook parameter is not entered, then off hook parameter must not be entered.

If the on hook parameter is not specified, the off hook action must be activate or deactivate.

If the on hook parameter is entered, then the off hook parameter must also be entered.

With 5e7 and later, if the on hook parameter is entered, then the off hook parameter must also be entered and equal to the on hook parameter.

OFF HOOK FUNCTION

2.9 ACTION

Description: Enter the Attendant and Multi-Line Hunt Group feature action for the off hook action function.

Required Field.

Valid ACTION Entries

Entry	Definition
FTACT	Activate BRCS feature
FTDCT	Deactivate BRCS feature
ACTON	Activate Alternate Code Treatment
ACTOFF	Deactivate Alternate Code Treatment

Data Rules:

If on hook action is activate, off hook action must be deactivate. If on hook action is deactivate, off hook action must be activate.

For 5E8 and later, if off hook ACTION is "FTACT" or "FTDCT", the feature must be defined on the CFWFD form with ACT TYPE set to "KEY".

2.10 PARAMETER

Description: Enter the Alternate Code treatment set for off hook parameter function.
Valid Entries: 1 - 32

Data Rules:

If the on hook parameter is not entered, then the off hook parameter must not be entered.

If the on hook parameter is not specified, the off hook action must be activate or deactivate.

If the on hook parameter is entered, then the off hook parameter must also be entered.

With 5E7 and later, if the on hook parameter is entered, the off hook parameter must be entered and equal to the on hook parameter.

```
ftrkey                           5ESS Switch             _
(5613)                    OFFICE DATA ADMINISTRATION
                          FEATURE KEY FUNCTION LIST


* 1. FTR SPN       028100409
  2. TN            _______
  3. MLHG          0032
  4. TERM          0015
  5. FEATURE       /TD

  ON HOOK FUNCTION
  6. ACTION        FTDCT
  7. PARAMETER     __

  OFF HOOK FUNCTION
  8. ACTION        FTACT
  9. PARAMETER     __
```

Figure 1 SAMPLE FTRKEY FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
ftrkey                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5613)                     FEATURE KEY FUNCTION LIST

*1. FTR SPN _________        OFF HOOK FUNCTION
 2. TN      __________    #8. ACTION    ________
 3. MLHG    ____           9. PARAMETER __
 4. TERM    ____
#5. FEATURE ________

   ON HOOK FUNCTION
#6. ACTION    ________
 7. PARAMETER __
```

Figure 2 SAMPLE FTRKEY FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 15: CALL FORWARDING FORMS

SEC. 15A: 5614-1/2 RECORD
CALL FORWARDING FEATURE DEFINITION FORM - CFWFD

1. GENERAL

The 5614-1/2 Records are available with the 5E2 and later Software Releases. In general, the Call Forwarding feature allows calls completing to a customer's Directory Number to be redirected to another number. It is used to define a number of separate, but related features, by selecting various feature options for Call Forwarding. The provided features are Call Forwarding Variable for POTS, Call Forwarding within group only, Call Forwarding Variable for Centrex, Call Forwarding Incoming only, Call Forwarding over Private Facilities, Call Forwarding Busy Line all calls, Call forwarding Busy Line incoming only, Call Forwarding Don't Answer all calls variable timing, Call Forwarding Don't Answer incoming only variable timing, remote Call Forwarding, night service, power failure transfer attendant, Call Forwarding Variable with Confirmation Tone similar to 1A ESS. Each feature is given a feature name from one to eight characters which is used to assign the constructed (defined) feature to lines. Certain Call Forwarding features are predefined, and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed Call Forwarding features is attached.

1.1 Multi-Line Hunt Groups

If the Call Forwarding feature is to be applied to a Multi-Line Hunt Group, the following applies: Call Forwarding Features, Call Forward Variable or Call Forward Busy Line, with FWD CONDITION of "BOTH", "PRCV", "BUSY", "PRCB" or "PBSY"can only be assigned to members whose TERM value is 1. These features are assigned to Terminal 1, but they apply to all members of the group in the same manner. Call Forward Don't Answer features can be assigned to any member of the group, but apply only to the terminal assigned.

1.2 Lines

A terminal (line) must be assigned a Call Forwarding feature on the appropriate feature assignment form: LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), or CLUSTR (5600 Record).

1.3 Circuit Switched Data

For 5E6 and later, the Call Forwarding feature is available to CSD (Circuit Switched Data) subscribers. This means that a subscriber on an ISDN BRI (Basic Rate Interface) can now receive CSD calls that would normally terminate to the subscriber's base station.

1.4 Call Forwarding Busy Line Options

For 5E7 and later, the IMB (Inhibit Make Busy) and ILB (Inhibit Line Busy) options are available for Call Forwarding Busy Line features. These options (implemented through fields CFIMB, CFILB, and OVF CFI) can be used to eliminate operational differences between CFBL (Call Forwarding Busy Line) features on the 1A ESS Switch and 5ESS Switch.

If a CFBL-IMB feature is assigned to a line or MLHG (Multi-Line Hunt Group), it will inhibit CFBL treatment when the make busy key or feature button is on. If a CFBL-ILB feature is assigned to a line or MLHG, it will inhibit CFBL when the line is busy and the make busy key or feature button is off.

CFBL-IMB: The CFBL-IMB option inhibits CFBL when the subscriber activates a make busy key. If the feature is assigned to an individual line, the line must have an individual make busy key. If the feature is assigned to an MLHG, the MLHG must have a group make busy key or feature button.

When a subscriber on an individual line activates the make busy key, all calls to that line are routed to a busy (or overflow) tone. When the make busy key is off, if the phone is on hook, calls are received normally; if the phone is off hook, calls are forwarded, i.e. CFBL occurs,

Similarly for an MLHG, when the group make busy key is activated, all huntable calls to the MLHG are routed to busy (or overflow). When the group make busy key is off, if a huntable member is available, calls are received normally; if no huntable member is available, calls are forwarded.

CFBL-ILB: The CFBL-ILB option forwards all calls when the make busy key is on and inhibits CFBL when the make busy key is off. When a subscriber on an individual line activates the make busy key, all calls are forwarded. When the subscriber's make busy key is off, if the phone is on hook, calls are received normally; if the phone is off hook, calls receive busy (or overflow) tone. The scenario is similar for an MLHG with a group make busy key.

MLHG Notes: Because CFBL for an MLHG applies only to the entire group, make busy keys that apply only to individual members of an MLHG do not interact with CFBL-IMB and CFBL-ILB. Also, group make busy keys/feature buttons do not make no-hunt DNs in an MLHG busy; therefore, an IMB/ILB feature does not apply to these no-hunt DNs.

1.5 Recent Change View

The corresponding Recent Change View for this form is 12.12.

2. FORM ENTRIES - 5614-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *FEATURE NAME

Description: Enter the feature name.
Valid Entries: Feature names may be from one to eight characters long, with no restrictions on the valid characters except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: Up to 32 characters

ACTIVATION

The following fields (Section 2.4 - Section 2.7) specify when and how the call forwarding feature will be activated.

2.4 FWD CONDITION

Description: Forward condition specifies the condition under which a called line should be forwarded.

Required Field.
Default: BOTH
Valid Entries:

Valid FWD CONDITION Entries

Entry	**Definition**
ACDI	Software Release: 5E9(1) and later. Forward when idle back to the head of the same ACD queue. For more information on the ACD/BRCS secured feature, see Division 2, Section 4A121.
BUSY	Forward only when the line associated with the Directory Number is busy.
IDLE	Forward only when the line associated with the Directory Number is idle, after a specified number of seconds of ringing has occurred.
BOTH	Forward if the line associated with the Directory Number is busy or if the line is idle after a specified number of seconds of ringing has occurred.
DBSY	Software Release: 5E6 and later. Forward when busy for CSD (Circuit Switched Data) calls.
DIDL	Software Release: 5E6 and later. Forward when Idle for CSD.
DBTH	Software Release: 5E6 and later. Forward when Busy or Idle for CSD.
PBSY	Used only for lines which have also been assigned a Precedence and Preemption BRCS feature; see the PPFD form (5618-1 Record). Forward to the AUTOVON attendant when the line associated with the Directory Number is busy, the terminating call is a Precedence call and the line does not have the PP parameter IMMED PREEMPTION equal to yes.
PIDL	Used only for lines which have also been assigned a Precedence and Preemption BRCS feature; see the PPFD form (5618-1 Record). Forward to the AUTOVON attendant when the line associated with the Directory Number is idle after a specified number of seconds of ringing has occurred and the terminating call is a Precedence call.
PRCB	Software Release: 5E3 and later. Forward precedence calls when busy.
PRCI	Software Release: 5E3 and later. Forward precedence calls when idle.
PRCV	Software Release: 5E3 and later. Forward precedence calls when busy or idle.

Data Rules:

If "DBSY", "DIDL", or "DBTH" is entered, ATTENDANT must be "N", CFPF ALW must be "N", and ACT TYPE must be "CODE", "AUTO" or "CDDN".

If "PBSY" or "PIDL" is entered, then ACT TYPE must equal "AUTO", DACT TYPE must equal "NONE" and Attendant must equal "N".

If "BUSY", "PBSY", "PRCB", "BOTH", or "PRCV" is entered in this field, then 0 must be entered in the DON'T ANSWER TIMING field.

Only one in the following pairs of Call Forwarding Variable Features can be assigned to a BFG (5625 Record) or an associated CLUSTR (5600 Record) form: "BUSY" or "DBSY", "IDLE" or "DIDL", "BOTH" or "DBTH".

A maximum of one feature from each of the types described below is allowed to be assigned to a BFG(s) or the associated CLUSTR(s) with more than one Call Forwarding Variable Feature defined on this form.

- Type 1:

  FWD CONDITION = "BUSY", "DBSY", "PRCB"or "PBSY".

- Type 2:

FWD CONDITION = "IDLE", "DIDL", "ACDI", "PRCI" or "PIDL".

- Type 3:

FWD CONDITION = "BOTH", "DBTH", or "PRCV".

If TNs on the LINEFA form (5112 Record) are assigned either a Call Forwarding when Idle, Call Forwarding when Idle for CSD, Call Forwarding Precedence Call to Attendant when Idle, Call Forwarding Precendence Call when Idle, or a Call Forwarding when Idle Return to Queue feature on this form, i.e., "IDLE", "DIDL", "PIDL", "PRCI", or "ACDI" is entered in this field, then DON'T ANSWER TIMING on the CFWLPA form (5614-3 Record) must be in the range of 4 - 60 seconds.

When assigning a Call Forwarding Busy Feature ("BUSY"), Call Forward Busy or Idle Feature ("BOTH"), or Forward Precedence When Busy or Idle Feature ("PRCV") to an MLHG/TERM, the feature must have the CALL SELECTION fields on this form set to "Y". When assigning a Forward When Busy for CSD Feature ("DBSY"), Forward When Busy or Idle for CSD Feature ("DBTH"), Forward When Busy For PP Feature ("PBSY"), or Forward Precedence Call When Busy Feature ("PRCB") to an MLHG/TERM, ATTENDANT must be "N"and the remaining CALL SELECTION fields must be "Y".

When any of the following features is assigned to an MLHG/TERM on an MLHNFA form, DON'T ANSWER TIMING must be 0 or blank on the CFWFD or CFWMPA form: Call Forwarding When Busy ("BUSY"), Call Forwarding When Busy for PP ("PBSY"), Call Forwarding Precedence Call When Busy ("PRCB"), Call Forwarding When Busy for CSD ("DBSY"), Call Forwarding When Busy or Idle for CSD ("DBTH"), Call Forwarding When Busy or Idle ("BOTH").

MLHGs assigned a Call Forwarding Busy, Call Forwarding Data Busy or Call Forwarding Precedence Busy feature on the MLHNFA form must have CF BUSY set to "Y"on the MLHGFD form.

When an MLHG/TERM has been assigned a Call Forwarding Busy feature via an MLHLNFA, BFG, or associated CLUSTR form, and the feature has FWD CONDITION set to "DBSY", "DIDL", or "DBTH", then the BEARER field on the MLHGFD form (5604 Record) must be "CSD". If the FWD CONDITION is not "DBSY", "DIDL", or "DBTH", then BEARER must be "VOICE". If FWD CONDITION is "BOTH" or "PRCV", all CALL SELECTION fields on the CFWFD form must be "Y".

For 5E6 and later, an MLHG/TERM may not be assigned a Call Forwarding feature that has FWD CONDITION set to "PRCI"or "PRCV".

ACDI - For 5E9(1) and later, if "ACDI"is entered, then:
ACT TYPE must be "AUTO"
ATTENDANT must be "Y"
BASE STA RING IND must be "N"
CFPF ALW must be "N"
CHANGE FWD TO DN must be "N"
DACT TYPE must be "NONE"
DN SCREENING must be "N"
DON'T ANSWER TIMING must be 4 - 60 seconds
FWD TO DN cannot be entered
INTRA OFFICE must be "Y"
INTRA TERMINAL GROUP must be "Y"
INTER OFFICE must be "Y"
MDNL EMSI must be "N"

PRIVATE FACILITY ACCESS must be "Y"
SEQ ACT FWD LEGS must be 1
SIMUL INTEROFF FWD CALLS must be 1
SIMUL INTRAOFF FWD CALL must be 1.

CKT TNs on the DSLUSR form that have an entry in the ACD POS NUM field must have one and only one CFW feature with FWD CONDITION of "ACDI" on the associated CFWFD form, that is assigned on the LINEFA form, CLUSTR form or associated BFG form, and ACTIVE must be "Y".

CFW features with a FWD CONDITION of "ACDI"may only be assigned to CKT TNs defined on the DSLUSR form with ACD POS NUM entered.

If Telephone Numbers are assigned a CFW feature on the LINEFA form, CLUSTR form or BFG form, with FWD CONDITION of "ACDI"on this form, then:

- BASE STA RING IND must be "N", and SIMUL INTEROFF FWD CALLS, SIMUL INTRAOFF FWD CALLS and SEQ ACT FWD LEGS must all be 1 on the associated CFWLPA form. LINEFA, CLUSTR, or BFG form (associated by the name of the cluster, or BFG on the LINEFA form) is associated with CFWLPA form with the same TN.
- the FORWARD TO DN field must not be entered on the associated CFWLPA form.

If lines are assigned a Call Forwarding feature with FWD CONDITION set to a value other than "ACDI", then the FORWARD TO DN should be assigned on the CFWLPA form or in the default parameters of this form when ACT TYPE is "AUTO" or "KEY"or when ACT TYPE is "CODE"and CHANGE FWD TO DN is set to "N".

MLHG/TERMs which are assigned a CFW Feature on the MLHLNFA form, CLUSTR form or BFG form, may not have a CFW feature with a FWD CONDITION of "ACDI"on the associated CFWFD form.

For 5E8 and later, if TNs on the LINEFA form(s) or Multiline Hunt Group Terminals on the MLHLNFA are assigned a Call Forwarding Feature with both

- FWD CONDITION value other than "ACDI"
- and the Initial Activation Status and Master Activation Status on the LINEFA or MLHLNFA, BFG or associated CLUSTER form(s) are set to "Y" (Note that neither BFG nor CLUSTR forms have Master Activation Status) then the TN(s) or MLHG/TERM(s) must be defined with a Forward to DN on either CFWLPA or CFWFD form.

For 5E10 and later, when TNs have a Call Waiting Deluxe feature assigned on the LINEFA, CLUSTR and/or BFG form, and the Call Waiting Deluxe feature has the DFLT OPT parameter set to "CALLFWD" on either the CWTFD, CWTLPA or BFG form, this requires that a Call Forwarding feature with FWD CONDITION equal to "IDLE"must also be assigned to these TNs.

For 5E12 and later:

When FWD CONDITION is "ACDI", "PIDL", or "PRCI", DON'T ANSWER TIMING must be 4 - 60.

When FWD CONDITION is "DIDL" or "IDLE", DON'T ANSWER TIMING must be either 0 or 4 - 60.

When FWD CONDITION is "ACDI", "PIDL", or "PRCI", and TNs on the LINEFA form (5112 Record) are assigned one of these features, the corresponding CFWLPA form (5614-3 Record) must have DON'T ANSWER TIMING set to 4 - 60.

When FWD CONDITION is "PIDL", and MLHGs/TERMs on the MLHLNFA form (5113 Record) are assigned the PIDL feature, the corresponding CFWMPA form (5614-4 Record) must have DON'T ANSWER TIMING set to 4 - 60.

When FWD CONDITION is either "DIDL" or "IDLE", and TNs on the LINEFA form (5112 Record) are assigned one of these features, the corresponding CFWLPA form (5614-3 Record) must have DON'T ANSWER TIMING set to either 0 or 4 - 60.

When FWD CONDITION is either "DIDL" or "IDLE", and MLHGs/TERMs on the MLHLNFA form (5113 Record) are assigned one of these features, the corresponding CFWMPA form (5614-4 Record) must have DON'T ANSWER TIMING set to either 0 or 4 - 60.

For 5E15 and later, when the FEATURE NAME field value equals the value in the USCF FEAT field on the OFCOPT form (5509 Record), FWD CONDITION must be "BOTH".

2.5 ACT TYPE

Description: Enter the Activation type.

Required Field
Default: CODE
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
AUTO	Automatic Activation. The feature is active and ready to use when assigned. It is not activated by the subscriber.
CODE	Dialed Code Activation. The feature is activated when the subscriber dials a code.
CDDN	The feature is activated when the subscriber dials a code followed by the DN to which calls are to be forwarded.
CDDNC	The feature is activated when the subscriber dials a code followed by the DN to which calls are to be forwarded. A call is automatically completed to the DN but does not require an answer to complete activation.
CDDNCA	The feature is activated when the subscriber dials a code followed by the DN to which calls are to be forwarded. A call is automatically completed to the DN. Unless the forward-to DN is in the same terminal group as the originator, an answer is required to complete activation on the first attempt. The feature may be activated in the event of a no-answer condition by making a second activation attempt to the same DN within two minutes of the first.
CDCA1A	The feature is similar to CFW features with ACT TYPE "CDDNCA", but it provides transparency between CFW activation on the 5ESS Switch and the 1A ESS Switch.
KEY	The feature is activated by a scan point connected to a subscriber controlled key.

CODE: The feature is activated by the subscriber dialing a code. Calls are forwarded to a prestored DN. When the system recognizes the activation code, a confirmation tone followed by Dial Tone is returned to indicate successful activation. In the instance of an unsuccessful activation attempt, reorder is returned to the station.

CDDN: The feature is activated by the subscriber dialing a code. When the system recognizes the activation code, it returns recall Dial Tone to the customer, who then enters the Telephone Number to which calls will be forwarded. The system checks that the TN meets the Directory Number screening criteria. If the screening criteria are not met, the system returns reorder and the feature remains inactive. If the screening criteria are met, the system returns a confirmation tone signifying that the feature is active. After the confirmation tone has been provided, Dial Tone is returned to the station.

CDDNC: The feature is activated by the subscriber dialing a code. When the system recognizes the activation code, it returns recall Dial Tone to the customer, who then enters the Telephone Number to which calls will be forwarded. The system checks that the TN meets the Directory Number screening criteria. If the screening criteria are not met, the system returns reorder and the feature remains inactive. If the screening criteria are met, the system returns a confirmation tone signifying that the feature is active. After the confirmation tone has been provided, the system automatically completes a call to the entered Telephone Number. Normal call processing follows, allowing the customer to verify the forwarded to Directory Number.

CDDNCA: The feature is activated by the subscriber dialing a code. When the system recognizes the activation code, it returns recall Dial Tone to the customer, who then enters the Telephone Number to which calls will be forwarded. The system checks that the TN meets the Directory Number screening criteria. If the screening criteria are not met, the system returns reorder and the feature remains inactive. If the screening criteria are met, the system automatically completes a "courtesy"call to the entered Telephone Number. Unless the forward-to DN is in the same terminal group as the originator, the call must be answered. When the call is answered, the feature is activated. If the call is not answered, the dialing party has two minutes to begin a second attempt. If the customer repeats the previous steps within the two minute period, a confirmation tone is returned to the station followed by a Dial Tone, activating the feature. No automatic call completion is performed on this second activation attempt. If the forwarded to Telephone Number proves to be invalid, the station is notified of the fact and the feature remains inactive.

When the forward-to DN is in the same terminal group as the originating DN, the confirmation tone is given on the first activation attempt and a courtesy call is completed. The feature is activated whether or not the courtesy call is answered.
During CFV activation if the forward-to DN is that of a Message Service Center, the feature is activated, confirmation is given, and no courtesy call is made.

CDCA1A The feature is activated by dialing a code. This feature provides CFV (Call Forwarding Variable) as it is provided in the 1A ESS Switch. Functionally, this feature is identical to the current CFV feature provided in the 5ESS Switch with the following exceptions:

> Confirmation tone is applied to the Call Forwarding Subscriber on the first activation attempt immediately after the forward to DN (Directory Number) is dialed, when activating the CFV feature to a station outside the subscriber's group.
>
> Error treatment is applied to the Call Forwarding Subscriber if the forward to DN given on the second activation attempt is different from the forward to DN given on the first attempt. Used to indicate the type of activation allowed for this feature is by dialing a code. Then, once the system recognizes the activation code, recall Dial Tone is returned to the station. The station then enters the Telephone Number. The system checks whether or not the specified Telephone Number meets the Directory Number Screening criteria. If the Directory Number Screening criteria are not met, the system returns reorder and the feature remains inactive. However, if the Directory Number Screening criteria are met, the system returns a confirmation tone to the station. The confirmation tone signifies the feature is active. After the confirmation tone has been provided, Dial Tone is returned to the station.

Data Rules:

If a CFW feature with ACT TYP "CODE"is assigned to a line, then if FWD TO DN is not entered, CHANGE FWD TO DN must be set to "Y"(Yes).

If a CFW feature with ACT TYPE other than "KEY"or "AUTO" is assigned to a line, the line should normally be assigned an IDP (Individualized Dialing Plan); at least one dialed code on the corresponding IDPDCA form (5601-1/2 Record) should have ACTION equal to "FTACT" and FEATURE equal to this Call Forwarding feature.

If the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "FTACT" and FEATURE equal to this Call Forwarding feature.

For 5E7 and later, if ACT TYPE is "AUTO", the corresponding initiation activation status (i.e., Feature Active or Not-Act?) entry on the MLHLNFA, BFG, or CLUSTR form must be "Y".

For 5E15 and later, when the FEATURE NAME field value equals the value in the USCF FEAT field on the OFCOPT form (5509 Record), ACT TYPE must be "CDDNCA" or "CDCA1A".

2.6 DACT TYPE

Description: Enter the Deactivation type.

Required Field.
Default: CODE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
CODE	The feature is deactivated by dialing a code.
NONE	The feature cannot be deactivated from the customer's station. It can only be deactivated by a service order request through the switch owner.
AUTO	The switch automatically deactivates the feature. This option is valid only after an activate code has been dialed. After the customer activates the feature and completes a call, the switch automatically deactivates the feature.
KEY	The feature is deactivated by scan point, where scan point is controlled by keys.

Data Rules:

If ACT TYPE is "AUTO", then DACT TYPE must equal "NONE" or "CODE".

If ACT TYPE is "CODE"or "CDDN", then DACT TYPE must equal " CODE"or "AUTO".

If ACT TYPE is "CDCA1A", "CDDNC"or "CDDNCA", then DACT TYPE must equal "CODE".

If ACT TYPE is "KEY", then DACT TYPE must equal "KEY".

If DACT TYPE is "CODE"and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan); at least one dialed code of the IDP on the IDPDCA form (5601-1/2 Record) should have ACTION equal to "FTDCT"and a FEATURE associated with the dialed code on the IDPDCA form equal to this Call Forwarding feature. If the ACTION is equal to "CFDCT", the FEATURE associated with the dialed code on the IDPDCA form must be that of the Call Forward "wild-card" feature (/CF*).

Alternatively, if the line is not assigned an IDP, then the PDIT form (5300-2 Record) used by the line should contain at least one dialed code with an ACTION equal to "FTDCT"and a FEATURE associated with the dialed code on the PDIT form equal to this Call Forwarding feature, or an ACTION equal to "CFDCT"and the FEATURE associated with the dialed code on the PDIT form must be than of the Call Forward "wild-card"feature (/CF*).

For 5E15 and later, when the FEATURE NAME field value equals the value in the USCF FEAT field on the

OFCOPT form (5509 Record), DACT TYPE must be "CODE".

2.7 CFPF ALW

Description: Is a customer allowed to forward calls over private facilities? The private facilities may be accessed via FX, CCSA, OUTWATS, PFA, or ARS.

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A customer with a CFPF (Call Forward over Private Facilities) feature may also have an Account and/or Authorization feature defined on the appropriate Feature Assignment form. When CFPF ALW is "Y", the ACT TYPE must not be "CDDNCA"or "CDCA1A".

When CFPF ALW is "Y", the FWD CONDITION must NOT be:

- "PRCI",
- "DBSY",
- "DIDL", or
- "DBTH".

For 5E9(1) and later, if CFPF ALW is "Y", FWD CONDITION must not be "PRCI".

For CFPF/DA:
For 5E9(1) and later, the CFPF/DA (Call Forwarding Over Private Facilities/Don't Answer) feature is available as a secured feature (SFID 155). If this feature is purchased, FWD CONDITION must be "IDLE" and CFPF ALW must be "Y". The following restrictions also apply:

- if CFPF ALW is "Y", and FWD CONDITION is not "IDLE", and DN SCREENING is "Y", then DNSK, DNSL or DNSO must be "Y".
- if CFPF ALW is "Y", and FWD CONDITION is "IDLE", and DN SCREENING is "Y", then DNSK must be "N"and DNSL or DNSO must be "Y".
- if CFPF ALW is "N"and DN SCREENING is "Y", DNSK, DNSL and DNSO must be "N".

For more information on the CFPF/DA feature, See Division 2, Section 4A155.

For 5E10 and later, when CKT TN(s) and or CKT MLHG/TERMs on the DSLUSR form have DSL CLS set to "STD"on the DSL form (OE from DSLUSR form matches DSL OE on the DSL form), and are assigned a CFWFD feature with CFPF ALW set to "Y"on the CFWFD form, a SFSYS form must exist with SFID 225 (National ISDN 5E10 BRI Package) set to "Y". This feature is a Secured Feature that must be purchased by the office before a CFWFD feature with CFPF ALW set to "Y"may be assigned.

For 5E15 and later, when the FEATURE NAME field value equals the value in the USCF FEAT field on the OFCOPT form (5509 Record), CFPF ALW must be "N".

CHANGE OPTIONS

Fields Section 2.8 - Section 2.9 determine if the subscriber will be able to change specific call forwarding options.

2.8 CHANGE DON'T ANSWER TIMING

Description: Should the customer be allowed to change the don't answer timing on the Call Forwarding feature? When this field is "Y" (Yes), the customer may dial a code and then specify the value of the don't answer ringing time.

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

Data Rules:

If CHANGE DON'T ANSWER TIMING is "Y"(Yes) and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP on the IDPDCA form should have ACTION equal to "CFDATCH" and have FEATURE associated with the dialed code on the IDPDCA form equal to this Call Forwarding feature.

Alternately, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "CFDATCH"and FEATURE associated with the dialed code on the PDIT form equal to this Call Forwarding feature.

2.9 CHANGE FWD TO DN

Description: Change Forward to Directory Number. Should the customer be allowed to change the "forward to"Telephone Number on a specific Call Forwarding feature without first having to deactivate and then re-activate the specific feature?

Required Field.
Valid Entries: Y, N

Data Rules:

If CHANGE FWD TO DN is "Y"(Yes) and this feature is assigned to a line, then the line should normally be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA) should have ACTION equal to "CFDNCH"and have FEATURE associated with the dialed code on the IDPDCA form equal to this Call Forwarding feature.

Alternatively, if the line is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "CFDNCH"and FEATURE associated with the dialed code on the PDIT form equal to this Call Forwarding feature.

> ***NOTE:*** The only allowed value is "N", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

CALL SELECTION

Call selection specifies the conditions under which a called line should be forwarded, based on the Class Of Service of the incoming call. Any combination of the following five non-exclusive options (Section 2.10 -

Section 2.14) may be specified.

If the Call Forwarding feature is assigned to a Multi-Line Hunt line, then ATTENDANT, INTRA OFFICE, INTER OFFICE, INTRA TERMINAL GROUP, and PRIVATE FACILITY ACCESS must equal "Y"(Yes).

2.10 ATTENDANT

Description: Should forwarding of calls from an attendant within the same Terminal Group be allowed?

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

Data Rules:

If two or more Call Forwarding features with the same FWD CONDITION are assigned to a subscriber, only one of the features may have ATTENDANT set to "Y". An exception to this rule is the /CFNS feature which may be assigned in conjunction with another Call Forwarding feature which has ATTENDANT set to "Y".

2.11 INTRA OFFICE

Description: Will the customer be allowed to forward an intraoffice call? The incoming call is an intraoffice, non-private facility call; the incoming call and the called line are not members of the same Terminal Group.
Default: Y
Valid Entries: Y, N

Data Rules:

If two or more Call Forwarding features with the same FWD CONDITION are assigned to a subscriber, only one of the features may have INTRA OFFICE set to "Y". An exception to this rule is the /CFNS feature which may be assigned in conjunction with another Call Forwarding feature that has INTRA OFFICE set to "Y".

> ***NOTE:*** The default and only value for this field is "Y", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.12 INTER OFFICE

Description: Will the customer be allowed to forward an interoffice call? The incoming call is an interoffice, non-private facility call, and the trunk bringing the call to the switch and the called line are not members of the same Terminal Group.
Default: Y
Valid Entries: Y, N

Data Rules:

If two or more Call Forwarding features with the same FWD CONDITION are assigned to a subscriber, only one of the features may have INTER OFFICE set to "Y". An exception to this rule is the /CFNS feature which may be assigned in conjunction with another Call Forwarding feature that has INTER OFFICE set to "Y".

> ***NOTE:*** The default and only value for this field is "Y", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.13 INTRA TERMINAL GROUP

Description: Will the customer be allowed to forward an intraterminal group call? The incoming call belongs to the same Terminal Group as the called line and neither are part of a private facility.
Default: Y
Valid Entries: Y, N

Data Rules:

If two or more Call Forwarding features with the same FWD CONDITION are assigned to a subscriber, only one of the features may have INTRA TERMINAL GROUP set to "Y". An exception to this rule is the /CFNS feature which may be assigned in conjunction with another Call Forwarding feature that has INTRA TERMINAL GROUP set to "Y".

> ***NOTE:*** The default and only value for this field is "Y", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

2.14 PRIVATE FACILITY ACCESS

Description: Will the customer be allowed to forward a call from a private facility? The incoming call must be from a private facility.
Default: Y
Valid Entries: Y, N

Data Rules:

If two or more Call Forwarding features with the same FWD CONDITION are assigned to a subscriber, only one of the features may have PRIVATE FACILITY ACCESS set to "Y". An exception to this rule is the /CFNS feature which may be assigned in conjunction with another Call Forwarding feature that has PRIVATE FACILITY ACCESS set to "Y".

> ***NOTE:*** The default and only value for this field is "Y", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

3. FORM ENTRIES - 5614-2 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

3.2 DN SCREENING

Description: Will the DNs (Directory Numbers) to which calls are forwarded be screened? "Y"(Yes) indicates that one or more of the following fields (DNSA through DNSQ) will prohibit calls from being forwarded to certain types of DNs. "N"(No) indicates there will be no screening; calls can be forwarded to any DN.

Required Field for 5E9(1) and later.
Default: Y
Valid Entries: Y, N

Data Rules:

When DN SCREENING is "Y", at least one of the DNSA through DNSQ fields must be "N".

For 5E9(1) and later, if DN SCREENING is "N", all options (DNSA through DNSQ) must be "Y".

For 5E9(1) and later, if DN SCREENING is "Y"and CFPF ALW is "Y", then DNSK, DNSL, or DNSO must be "Y". If DN SCREENING is "Y"and CFPF ALW is "N", then DNSK, DNSL and DNSO must be "N".

3.3 DNSA

Description: Should the customer be allowed to forward calls to members of the same Terminal Group?
Default: Y
Valid Entries: Y, N

NOTE: The only allowed value is "Y", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

3.4 DNSB

Description: Should the customer be allowed to forward calls to an intraoffice DN that is not an intragroup DN?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.5 DNSC

Description: Should the customer be allowed to forward calls to an intra-LATA DN that is not an intragroup or intraoffice DN?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.6 DNSD

Description: Should the customer be allowed to forward calls to an inter-LATA DN that is not an international DN?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.7 DNSE

Description: Should the customer be allowed to forward calls to an international DN?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.8 DNSF

Description: Should the customer be allowed to forward calls to a type X11 DN (e.g. 411, 911)?
Default: N
Valid Entries: Y, N

NOTE: The only allowed value is "N", except for Call Forwarding features derived from the preconstructed features using the ODA change-insert mode of the review operation.

3.9 DNSG

Description: Should the customer be allowed to forward calls to the POTS or IC (Interexchange Carrier) operator?
Default: N

Valid Entries: Y, N (See Note in Section 3.8)

3.10 DNSH

Description: Should the customer be allowed to forward calls to an ODP (Office Dialing Plan) or IDP (Individualized Dialing Plan) feature code? The code may be with or without subsequent parameters.
Default: N
Valid Entries: Y, N (See Note in Section 3.8)

3.11 DNSI

Description: Should the customer be allowed to forward calls to an IDP Intercom number?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.12 DNSJ

Description: Should the customer be allowed to forward calls to an IDP Abbreviated Dial code?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.13 DNSK

Description: Should the customer be allowed to forward calls to a Private Facility Access Code for a nonsenderized facility? The Private Facility Access Code may be followed by additional digits, but these digits are not subject to screening. The forward to DN is screened during the entry for a speed call list entry and during the activation of CFPF (Call Forwarding over Private Facilities).

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

For 5E5 and later, both "Y"and "N" may be entered. (See Note in Section 3.8).

3.14 DNSL

Description: Should the customer be allowed to forward calls to a Private Facility Access Code for a senderized facility? The PFA Code may be followed by additional digits, but these digits are not subject to screening. This entry is screened during the entry of a speed call list entry and during the activation of CFPF (Call Forwarding over Private Facilities).

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

For 5E5 and later, both "Y"and "N"may be entered. (See Note in Section 3.8).

Data Rules:

For 5E5 and later, if "Y"is entered, then CFPF ALW must be "Y".

3.15 DNSM

Description: Should the customer be allowed to forward calls to an IDP POTS Access Code?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.16 DNSN

Description: Should the customer be allowed to forward calls to a specific Carrier Access Code (10xxx) followed by parameters that conform to other DN screening options?
Default: Y
Valid Entries: Y, N (See Note in Section 3.3)

3.17 DNSO

Description: Should the customer be allowed to forward calls to an ARS Access Code? The Private Facility Access Code may be followed by additional digits, but these digits are not subject to screening. This entry is screened during the entry of a speed call list entry and during the activation of CFPF (Call Forwarding over Private Facilities).

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

For 5E5 and later, both "Y"and "N"may be entered. (See Note in Section 3.8).

Data Rules:

For 5E5 and later Software Releases, if "Y" is entered, then CFPF ALW must be "Y".

3.18 DNSP

Description: Should a PP precedence code (followed by a telephone number) be allowed to be stored in the Abbreviated Dial List?
Default: N
Valid Entries: Y, N

3.19 DNSQ

Description: Is the forward to number restricted to a port that can receive AUTOVON calls?
Default: N
Valid Entries: Y, N

Data Rules:

If this field is "Y", then DNSA must be "Y".

DEFAULT PARAMETERS

The following fields (Section 3.20 - Section 3.36) define the default parameters assigned with the feature to lines. These parameters will be assigned to the line unless they are overridden by entries on the CFWLPA (5614-3 Record) or CFWMPA (5614-4 Record) forms.

3.20 FORWARD TO DN

Description: The Directory Number to which calls will be forwarded.
Valid Entries: Up to 32 characters (0 - 9, *, and/or #)

Data Rules:

The FORWARD TO DN will be translated during call processing using the originator's dialing plan(s). Therefore, if the originator has an Individualized Dialing feature with an IDP group, the digits entered must be successful using the IDPDCA form entries. For example, if the originator normally dials an intercom digit string of four digits to call a phone, then the four digits should be entered here to forward to the same phone.

If FWD TO DN is specified, then ACT TYPE must equal "AUTO", "CODE", or "KEY".

For 5E5 and later, when CFPF ALW is "Y", this field can contain the following codes in many different dialing sequences:

- PFA access code
- Account Code use code
- Authorization Code use code
- ARS use code
- Directory Number

The account and authorization codes are entered in the ACCT CODE and ATH CODE fields.

3.21 ACCT CODE

Description: Enter the Account Code used by Call Forwarding Over Private Facility for the invocation of CFPF.

Software Release: 5E5 and later
Valid Entries: Up to 15 characters (0 - 9, #, and *)

Data Rules:

When ACCT CODE is entered, then CFPF ALW must be "Y"and FORWARD TO DN must contain an Account Use code along with the DN and other use codes.

When this field is entered, an associated Account feature (5623-1 Record) must be assigned to the associated LINEFA, MLHLNFA, BFG or associated CLUSTR form with the feature active to allow calls to be forwarded with this account code.

3.22 ATH CODE

Description: This field allows the Authorization Code used by Call Forwarding Over Private Facilities to be defaulted for CFPF invocations.

Software Release: 5E5 and later
Valid Entries: 1 - 15 digits

Data Rules:

When ATH CODE is entered, then CFPF ALW must be "Y"and FORWARD TO DN must contain an Authorization Use code along with the DN and other use codes.

When this field is entered, an associated Authorization feature (5619-1 Record) must be assigned to the associated LINEFA, MLHLNFA, BFG or associated CLUSTR form with the feature active to allow calls to be forwarded with this authorization code.

3.23 DON'T ANSWER TIMING

Description: This field specifies the Don't Answer Ring Time, the maximum time (seconds) the phone will ring before an unanswered call is forwarded.

Required Field for 5E5 and later.
Default: 0
Valid Entries: 0 - 60

Data Rules:

With 5E5 and later, this field must have a value of 4 to 60 when FWD CONDITION has a value of "IDLE"or "PIDL" to allow the terminal to be rung at least once before it is considered idle and the call is forwarded.

If FWD CONDITON is "IDLE", "DIDL", "PIDL", "PRCI", or "ACDI", then the entry in this field must be in the range of 4 - 60 seconds.

3.24 SIMUL INTEROFF FWD CALLS

Description: Enter the maximum number of simultaneously active interoffice calls allowed between the base station and the forward to DN.
Default: 1
Valid Entries: 1 - 99

Data Rules:

If the forward to directory number resides in an MLHG, it is recommended that the valid entries are from 1 to the maximum number of lines within the MLHG. Entering the value of the maximum size of the MLHG allows efficient use of all terminals within the forward to MLHG. If the base TN is terminal 1 in an MLHG, the entry can be defined as the size of the base MLHG to ensure that the number of simultaneously forwarded calls is equivalent to the number of calls that could be completed to the MLHG without the call forwarding feature being present.

3.25 SIMUL INTRAOFF FWD CALLS

Description: Enter maximum number of simultaneously active intraoffice calls allowed between the base station and forward to DN.
Default: 99
Valid Entries: 1 - 99

3.26 SEQ ACT FWD LEGS

Description: Enter the maximum number of Call Forwarding legs allowed to be sequentially forwarded. The SEQ ACT FWD LEGS limit is exceeded if any individual line in a Call Forwarding chain has its limit exceeded.
Default: 5
Valid Entries: 1 - 32

3.27 BASE STA RING IND

Description: Should the Base Station Ring Indicator be allowed? Base station ringing indicator is a normal ring of 0.5 second duration which is applied to an idle line indicating that an incoming call to that line is being forwarded.
Default: Y
Valid Entries: Y, N

3.28 MDNL ENHANCED

Description: Is the enhanced version of the MDNL (Multiple Directory Numbers Per Line) feature supported? If "Y"is entered, the enhanced version of MDNL service is supported. If "N"is entered, the basic MDNL service or no MDNL service is supported.

This field replaces the DDNCFI field.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y"is entered, the FWD CONDITION field must have a value of "BOTH".

If "Y" is entered, the associated LINE form must have a "Y" entered in the SHARE field.

If "N" is entered, the MDNL FWD and MDNL RCF fields must have the same value.

3.29 MDNL FWD

Description: This field indicates which TNs will be forwarded for lines assigned MDNL features.

Software Release: 5E6 and later
Required Field.
Default: ALL
Valid Entries:

Valid MDNL FWD Entries

Entry	Definition
ALL	The Master TN and its Dependent TNs will be forwarded.
DEPEND	The Dependent TNs will be forwarded only.
MASTER	The Master TN will be forwarded only.

Data Rules:

If "DEPEND"is entered, the MDNL ENHANCED field must have a value of "Y".

If "MASTER"is entered and the MDNL ENHANCED field has a value of "N", the FWD CONDITION field must have a value of "BOTH".

3.30 MDNL RCF

Description: For lines that have the MDNL feature, this field specifies if calls to the Master TN and/or Dependent TNs can be forwarded via Remote Activation (e.g., RACF, ACF).

Software Release: 5E6 and later
Required Field.
Default: ALL
Valid Entries:

Valid MDNL RCF Entries

Entry	Definition
ALL	The Master TN and its Dependent TNs can be forwarded.
DEPEND	Only the Dependent TNs can be forwarded.
MASTER	Only the Master TN can be forwarded.

Data Rules:

If "DEPEND"is entered, the MDNL ENHANCED field must have a value of "Y".

3.31 CFDA AFTER CW

Description: Will unanswered call waiting calls be forwarded to a remote DN when a CFDA feature is assigned to the line?

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

If CFDA AFTER CW is "Y"then FWD CONDITION must be "IDLE".

If the Secured Feature ID is not set to "S"on the SFSYS form (5713 Record), the value of CFDA AFTER CW must be blank or "Y" when FWD CONDITION equals "IDLE" , "PIDL", or "PRCI", and must be "N" for all other cases.

If CFDA AFTER CW is set to "Y", the line cannot be defined on a DSLUSR form (5908 Record).

If CFDA AFTER CW is set to "Y", the TN cannot be defined on the LINE form (5109-1/2/3 Records) with SHARED equal to "Y".

When CFDA AFTER CW is not entered, it is set to "Y"for unshared analog lines with CFDA features and "N"for all other lines.

For 5E16(2) and later, when CFDA AFTER CW is "Y", the FWD CONDITION must be "IDLE","'PIDL" or "PRCI".

3.32 CFIMB

Description: Should the Call Forward Inhibit Make Busy option be included in this feature? When a Call Forwarding Busy Line feature has the CFIMB option, it inhibits call forwarding while the Make Busy Key (or Feature Button) is on. Calls arriving after the subscriber has activated the make busy key or feature button receive busy or reorder tone as specified in the OVF CFI field. For more information on the IMB feature, refer to Section 1.4 , "Call Forwarding Busy Line Options", at the beginning of this section.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. When CFILB is "Y", CFIMB must be "N".

The Inhibit Make Busy option applies only to Call Forwarding Busy Line features. When CFIMB is "Y", FWDCOND must be "BUSY".

A CFBL-IMB feature is assigned to a line or MLHG by service order and cannot be activated or deactivated by the subscriber. When CFIMB is "Y", ACT TYPE must be "AUTO", and DACT TYPE must be "NONE".

A TN that is assigned a CFBL-IMB feature must have a make busy key. When a TN is assigned a CFBL feature (via a LINEFA, BFG, or associated CLUSTR form) that has the IMB option set to "Y", the MAKE BUSY KEY must be entered on the LINE form (5109 Record).

An MLHG that is assigned a CFBL-IMB feature must have a group make busy key or feature button. When an MLHG/TERM is assigned a CFBL feature (via an MLHLNFA, BFG, or associated CLUSTR form) that has the IMB option set to "Y", it must also be assigned a group make busy key/button in one of two ways:

- the GROUP MAKE BUSY KEY on the corresponding MLHG form (5110 Record) may be entered; or
- if Member 1 of the MLHG is defined on a DSLUSR form (5908 Record), there may be a corresponding entry on a CFGGRP form (5964 Record) with ACTION set to "BYGP".

A CFBL-IMB feature may be assigned to regular, circular, and UCD Multi-Line Hunt Groups. The MLHG FEATURE assigned on the MLHG form must be defined on an MLHGFD form (5604 Record) with HUNT TYPE equal to "REG", "HTC", or "UCD".

3.33 CFILB

Description: Should the Call Forward Inhibit Line Busy option be included in this feature? When a Call Forwarding Busy Line feature has the CFILB option, it inhibits call forwarding while the Make Busy Key (or Feature Button) is off.

Calls arriving when the make busy key is on will be forwarded. Calls arriving when the line is busy, but the make busy key is off, will not be forwarded; the caller will receive busy or reorder tone as specified in the OVF CFI field. For more information on the ILB feature, refer to Section 1.4 , "Call Forwarding Busy Line Options", at the beginning of this section.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. When CFIMB is "Y", CFILB must be "N".

The Inhibit Line Busy option applies only to Call Forwarding Busy Line features. When CFILB is "Y", FWDCOND must be "BUSY".

A CFBL-ILB feature is assigned to a line or MLHG by service order and cannot be activated or deactivated by the subscriber. When CFILB is "Y", ACT TYPE must be "AUTO", and DACT TYPE must be "NONE".

A TN that is assigned a CFBL-ILB feature must have a make busy key. When a TN is assigned a CFBL feature (via a LINEFA, BFG, or associated CLUSTR form) that has the ILB option set to "Y", the MAKE BUSY KEY must be entered on the LINE form.

An MLHG that is assigned a CFBL-ILB feature must have a group make busy key or feature button. When an MLHG/TERM is assigned a CFBL feature (via an MLHLNFA, BFG, or associated CLUSTR form) that has the IMB option set to "Y", it must also be assigned a group make busy key/button in one of two ways:

- the GROUP MAKE BUSY KEY on the corresponding MLHG form may be entered; or
- if Member 1 of the MLHG is defined on a DSLUSR form, there may be a corresponding entry on a CFGGRP form with ACTION set to "BYGP".

A CFBL-ILB feature may be assigned to regular, circular, and UCD Multi-Line Hunt Groups. The MLHG FEATURE assigned on the MLHG form must be defined on an MLHGFD form with HUNT TYPE equal to "REG", "HTC", or "UCD".

3.34 OVF CFI

Description: Should overflow (reorder) tone be returned to a caller when the call is not forwarded because of CFIMB or CFILB? If this field is "N", the caller will receive a busy tone.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This option only applies to Call Forward Busy Line features having the Inhibit Make Busy or the Inhibit Line Busy option. If OVF CFI is "Y", either CFIMB or CFILB must be "Y".

3.35 FCCS OPT

Description: Is the Forwarded Call - Call Screening option active for this call forwarding feature?

Software Release: 5E14 and later
Required field.
Default: N
Valid Entries: Y, N

Data Rules:

When FCCS OPT is "Y", the following must be true:

ACT TYPE must be "AUTO" or "CODE"

DACT TYPE must be "CODE" or "NONE"

CHANGE FWD TO DN must be "N"

FWD CONDITION must be "BUSY"or "IDLE"

The ACT field must be "Y" for SFID 526 on the SFSYS form

For 5E16 and later, when FCCS OPT is set to "Y" and ACT TYPE is set to "CODE" or DACT TYPE is set to "CODE", then the ACT field for SFID 592 on the SFSYS form (5713-1 Record) must be set to "Y".

For 5E16 and later, when the ACT field for SFID 592 is set to "Y" on the SFSYS form, the ACT field for SFID526 on the SFSYS form must also be set to "Y".

3.36 CFDARC

Description: Activate the Call Forward Don't Answer Ring Control option? This field specifies whether or not the Call Forwarding Don't Answer Ring Control is active for this line.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When CFDARC is "Y":

the ACT field for SFID 335 on the SFSYS form (5713-1 Record) must be set to "Y".

FWD CONDITION must be "DIDL", "IDLE", "PIDL", or "PRCI".

CHANGE DON'T ANSWER TIMING must be "Y".

3.37 CFV ALERT

Description: This field indicates whether the Call Forwarding Variable Alert option is active for this feature.

Software Release: 5E12 and later
Valid Entries: Y, N

Data Rules:

When CFV ALERT is set to "Y":

the ACT field for SFID 341 on the SFSYS form (5713-1 Record) must also be set to "Y".

FWD CONDITION must be set to "BOTH".

MDNL CALL WAITING

The following fields (Section 3.38 - Section 3.40) support the MDR/CW/CF Interaction Enhancement (FAX Ring) Feature. This is a secured feature using SFID 535. For more information on this feature, see Division 2, Section 4A535.

3.38 INH CF MASTER

Description: Is Call Forwarding inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF MASTER must be "N".

If INH CF MASTER is "Y", then INH CF DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

When INH CF MASTER is "Y" FWD CONDITION must be BOTH, BUSY, or IDLE.

3.39 INH CF DEPEND

Description: Is Call Forwarding inhibited for the depend TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF DEPEND must be "N".

If INH CF DEPEND is "Y", then INH CF MASTER must be "N".

When INH CF DEPEND is "Y" FWD CONDITION must be BOTH, BUSY, or IDLE.

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

3.40 INHIBIT MDNL CF

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CF must be "NONE".

When INHIBIT MDNL CF is DEPEND OR MASTER, FWD CONDITION must be BOTH, BUSY, OR IDLE.

> ***NOTE:*** For more information on the Preconstructed Features below see the Lucent Technology document number *235-190-103 Business and Residence Feature Descriptions Document.*

ESS 5614-1 (11/2002) TG-5

CFWFD

12.12

CALL FORWARDING

FEATURE DEFINITION RECORD

5ESS SWITCH

DATE ___________

BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	ACTIVATION			CHG	CALL SELECT										DN																
		FWD COND	ACT TYPE	DACT TYPE	C	CFPF ALW	DON'T ANS TIM	FWD TO DN	ATTNDNT	INTRA OFC	INTER OFC	INTRA TG	PFA	SCREENING	DNS A	DNS B	DNS C	DNS D	DNS E	DNS F	DNS G	DNS H	DNS I	DNS J	DNS K	DNS L	DNS M	DNS N	DNS O	DNS P	DNS Q

ESS 5614-2a (11/20002)

TG-5

CFWFD

12.12

CALL FORWARDING

FEATURE DEFINITION RECORD

5ESS SWITCH

DATE ___________

BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	DEFAULT PARAMETERS						
	FORWARD TO DN	ACCT CODE	ATH CODE	DONT ANS	SIMUL INTER FWD CALLS	SIMUL INTRA FWD CALLS	[illegible]

				TIMING	

A
T
N
C
D
S
D

ESS 5614-2b (11/20002) CALL FORWARDING DATE ___________
TG-5 FEATURE DEFINITION RECORD
CFWFD 5ESS SWITCH
12.12
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	DEFAULT PARAMETERS							I M C N D F H N I L B I T
	CFDA AFTER CW	CFIM B	CFILB	OVF CFI	CFD AR C	CFV ALER T	FCCS OPT	

Figure 1 PRECONSTRUCTED CF FEATURES 5E9(1) AND LATER SOFTWARE RELEASES

```
cfwfd                              5ESS Switch
SCREEN 1 OF 3                  OFFICE DATA ADMINISTRATION
(5614-1,2a/b)              CALL FORWARDING FEATURE DEFINITION

*1. FEATURE NAME                                              CALL SELECTION
 3. REMARKS      ________________________________ 10. ATTENDANT                Y
                                                      INTRA OFFICE             Y
      ACTIVATION                                      INTER OFFICE             Y
 4. FWD CONDITION BOTH                                INTRA TERMINAL GROUP     Y
 5. ACT TYPE      CODE                                PRIVATE FACILITY ACCESS Y
 6. DACT TYPE     CODE
 7. CFPF ALW      N

        CHANGE OPTIONS
 8. CHANGE DON'T ANSWER TIMING N
 9. CHANGE FWD TO DN           N
```

```
cfwfd                              5ESS Switch
```

```
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5614-1,2a/b)         CALL FORWARDING FEATURE DEFINITION

15. DN SCREENING Y    27. DNSL N
    DNSA         Y        DNSM Y
    DNSB         Y        DNSN Y
    DNSC         Y    30. DNSO N
    DNSD         Y        DNSP N
    DNSE         Y        DNSQ N
    DNSF         N
    DNSG         N                   DEFAULT PARAMETERS
    DNSH         N    33. FORWARD TO DN       ________________________________
    DNSI         Y    34. ACCT CODE           _______________
    DNSJ         Y    35. ATH CODE            _______________
26. DNSK         N    36. DON'T ANSWER TIMING 00
```

```
cfwfd                             5ESS Switch             _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5614-1,2a/b)         CALL FORWARDING FEATURE DEFINITION

         DEFAULT PARAMETERS             49. CFDARC        N
37. SIMUL INTEROFF FWD CALLS 01         50. CFV ALERT     N
38. SIMUL INTRAOFF FWD CALLS 99         51. FCCS OPT      N
39. SEQ ACT FWD LEGS         05         52. INH CF MASTER N
40. BASE STA RING IND        Y          53. INH CF DEPEND N
41. MDNL ENHANCED            N
42. MDNL FWD                 ALL
43. MDNL RCF                 ALL
45. CFDA AFTER CW            _
46. CFIMB                    N
47. CFILB                    N
48. OVF CFI                  N
```

Figure 2 SAMPLE CFWFD FORM 5E14 SOFTWARE RELEASES

```
cfwfd                             5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5614-1,2a/b)         CALL FORWARDING FEATURE DEFINITION

*1. FEATURE NAME ________                                 CALL SELECTION
 3. REMARKS      ________________________________ 10. ATTENDANT               Y
                                                      INTRA OFFICE            Y
       ACTIVATION                                     INTER OFFICE            Y
 4. FWD CONDITION BOTH                                INTRA TERMINAL GROUP    Y
 5. ACT TYPE      CODE                                PRIVATE FACILITY ACCESS Y
 6. DACT TYPE     CODE
 7. CFPF ALW      N
```

```
         CHANGE OPTIONS
 8. CHANGE DON'T ANSWER TIMING N
 9. CHANGE FWD TO DN           N
```

```
cfwfd                             5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5614-1,2a/b)         CALL FORWARDING FEATURE DEFINITION

15. DN SCREENING Y    27. DNSL N
    DNSA         Y        DNSM Y
    DNSB         Y        DNSN Y
    DNSC         Y    30. DNSO N
    DNSD         Y        DNSP N
    DNSE         Y        DNSQ N
    DNSF         N
    DNSG         N                       DEFAULT PARAMETERS
    DNSH         N    33. FORWARD TO DN       ________________________________
    DNSI         Y    34. ACCT CODE           _______________
    DNSJ         Y    35. ATH CODE            _______________
26. DNSK         N    36. DON'T ANSWER TIMING 00
```

```
cfwfd                             5ESS Switch            _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5614-1,2a/b)         CALL FORWARDING FEATURE DEFINITION

         DEFAULT PARAMETERS             49. CFDARC          N
37. SIMUL INTEROFF FWD CALLS 01         50. CFV ALERT       N
38. SIMUL INTRAOFF FWD CALLS 99         51. FCCS OPT        N
39. SEQ ACT FWD LEGS         05         52. INHIBIT MDNL CF NONE
40. BASE STA RING IND        Y
41. MDNL ENHANCED            N
42. MDNL FWD                 ALL
43. MDNL RCF                 ALL
45. CFDA AFTER CW            _
46. CFIMB                    N
47. CFILB                    N
48. OVF CFI                  N
```

Figure 3 SAMPLE CFWFD FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 15B: 5614-3 RECORD
CALL FORWARDING LINE (TN) PARAMETER FORM - CFWLPA

1. GENERAL

The 5614-3 Record is available with 5E2 and later Software Releases. It defines parameters for a constructed Call Forwarding Feature that will be assigned to lines (which are not multi-line hunt group lines). This record is required only if the default parameters assigned on the CFWFD (Call Forwarding Feature Definition) form are inappropriate.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *TN

Description: Enter the Telephone Number of the line.
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 line may not be an MLHG line.

The associated CLASS OF SERVICE on a LCC form (5306 Record) must be one of the following:

	Class of Service
ATND	50B Non-Data Link Console Line or Attendant Line
INDIV	Individual Line
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
SATSTLN	Stand-Alone Test Line
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Software Release: 5E3 and later. Line to a PBX.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the CFWLPA 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 *FEATURE

Description: Enter the Feature Name.
Valid Entries: 1 - 8 characters

Data Rules:

This field must be defined on the CFWFD form (5614-1/2 Record).

For 5E12 and later, TN/FEATURE combinations on different CFWLPA forms cannot be duplicated.

2.4 FORWARD TO DN

Description: Enter the Forward To Directory Number.
Valid Entries: Up to 32 characters (0 - 9, *, and/or #)

Data Rules:

If FORWARD TO DN is specified, then ACT TYPE on the CFWFD form must equal "AUTO", "CODE", or "KEY".

If FORWARD TO DN is specified as a 7-digit Telephone Number, then FORWARD TO DN must not equal the 7-digit Telephone Number which was entered in the TN field; Call Forwarding does not allow forwarding to itself.

The FORWARD TO DN entered will be translated during call processing using the originator's dialing plan(s). Therefore, if the originator has an Individualized Dialing feature with an IDP group, the digits entered must be successful using the IDPDCA form (5601-1 Record) entries. For example, if the originator normally dials an intercom digit string of four digits to call a phone, then the four digits should be entered here to forward to the same phone.

For 5E5 and later, when CFPF ALW is "Y" on the associated CFWFD form, this field can contain the following codes in many different dialing sequences:

- PFA access code
- Account Code use code
- Authorization Code use code
- ARS use code
- Directory Number

The account and authorization codes are entered in the ACCT CODE and ATH CODE fields.

2.5 ACCT CODE

Description: Enter the Account Code used by Call Forwarding Over Private Facility for the invocation of CFPF.

Software Release: 5E5 and later
Valid Entries: Up to 15 characters (0 - 9, #, and/or *)

Data Rules:

When ACCT CODE is entered, then CFPF ALW must be "Y" on the associated CFWFD form and FORWARD

TO DN must contain an Account Use code along with the DN and other use codes.

When this field is entered, an associated Account Code feature defined on the ACCTFD form (5623-1 Record), must be assigned on the associated LINEFA, MLHLNFA, BFG, or CLUSTR form with the feature active to allow calls to be forwarded with this account code.

2.6 ATH CODE

Description: Allows the Authorization Code used by Call Forwarding Over Private Facilities to be defaulted for CFPF invocations.

Software Release: 5E5 and later
Valid Entries:
For 5E5 - 5E7: 1 - 15 characters (0 - 9, #, *)
For 5E8 and later: 1 - 15 digits

Data Rules:

When ATH CODE is entered, then CFPF ALW must be "Y" on the associated CFWFD form and FORWARD TO DN must contain an Authorization Use code along with the DN and other use codes.

When this field is entered, an associated Authorization feature (5619-1 Record) must be assigned on the associated LINEFA, MLHLNFA, BFG, or CLUSTR form with the feature active to allow calls to be forwarded with this authorization code.

2.7 DON'T ANSWER TIMING

Description: For the Call Forward Don't Answer feature, enter the time delay (in seconds) before a call will be forwarded.
Default: 30
Valid Entries: 0 - 60

Data Rules:

If DON'T ANSWER TIMING is greater than 0, then FWD CONDITION on the CFWFD form must equal "IDLE", "PRCI" or "PIDL".

For 5E5 and later, this field must have a value of 4 to 60 when the associated CFWFD form has a FWD CONDITION with a value of "IDLE" or "PIDL". This allows the terminal to be rung at least once before it is considered idle and the call is forwarded. During a retrofit to 5E5, if this field has a value of 0 to 3 and the above conditions are met, the field will be evolved to the value of 4.

2.8 SIMUL INTEROFF FWD CALLS

Description: Enter the maximum number of simultaneously active interoffice calls allowed between base station and forward to DN.
Default: 1
Valid Entries: 1 - 99

Data Rules:

If the forward to directory number resides in an MLHG, it is recommended that the valid entries are from 1 to the maximum number of lines within the MLHG. Entering the value of the maximum size of the MLHG allows efficient use of all terminals within the forward to MLHG. If the base TN is terminal 1 in an MLHG, the entry can be defined as the size of the base MLHG to ensure that the number of simultaneously forwarded calls is equivalent to the number of calls that could be completed to the MLHG without the call forwarding feature being present.

2.9 SIMUL INTRAOFF FWD CALLS

Description: Enter the maximum number of simultaneously active intraoffice calls allowed between base station and forward to DN.
Default: 99
Valid Entries: 1 - 99

2.10 SEQ ACT FWD LEGS

Description: Enter the maximum number of Call Forwarding legs allowed to be sequentially forwarded.
Default: 5
Valid Entries: 1 - 32

Data Rules:

The SEQ ACT FWD LEGS limit is exceeded if any individual line in a Call Forwarding chain has its own limit exceeded.

2.11 BASE STA RING IND

Description: Should the Base Station Ringing Indicator be allowed? The Base Station Ringing Indicator is a normal ring of 0.5 seconds duration which is applied to an idle line indicating that an incoming call to that line is being forwarded.
Default: Y
Valid Entries: Y, N

2.12 # FORWARD MULTIPLE TN'S?

Description: For lines that are assigned the MDNL (Multiple Directory Numbers Per Line) feature, should calls that terminate to the Dependent TNs defined on the MTNDR form (5550 Record) be Call Forwarded? A value of "Y" indicates that calls to both the Master TN and Dependent TNs will be call forwarded. A value of "N" indicates that only calls that terminate to the Master TN will be call forwarded; calls to the Dependent TNs will not be call forwarded.

If there are no multiple TNs associated with the TN defined on this form, then enter the default value.

Software Release: 5E4(2) only
Required Field.
Default: Y
Valid Entries: Y, N

2.13 DDNCFI

Description: Dependent DN Call Forwarding Inhibit. Should Call Forwarding be inhibited for Dependent TNs on lines assigned the MDNL (Multiple Directory Numbers Per Line) feature? A value of "Y" indicates that only calls terminating to the Master TN will be call forwarded; calls to the Dependent TNs will not be call forwarded. A value of "N" indicates that calls to both the Master TN and Dependent TNs will be call forwarded.

Software Release: 5E5 only
Default: N
Valid Entries: Y, N

Data Rules:

When this field is "Y", the FWD CONDITION on the associated CFWFD form must be "BOTH".

2.14 ANNC RTI

Description: This field is not used. For 5E7 and later, it was removed from the form.

Software Release: 5E5 and 5E6 only

2.15 MDNL ENHANCED

Description: Is the enhanced version of the MDNL (Multiple Directory Numbers Per Line) feature supported? If "Y" is entered, the enhanced MDNL service is supported. If "N" is entered, only basic MDNL service or no MDNL service is supported.

This field replaces the DDNCFI field.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, the FWD CONDITION field on the CFWFD form must have a value of "BOTH", and the associated LINE form must have a "Y" in the SHARE field.

If "N" is entered, the MDNL FWD and MDNL RCF fields must have the same value.

For 5E9(1) and later, when CFWLPA form(s) exist for the office with MDNL ENHANCED set to "Y"', SFID 37 on the SFSYS form must have ACT set to "Y"'.

2.16 MDNL FWD

Description: For lines that have the MDNL feature, this field indicates if calls to the Master TN and/or Dependent TNs will be forwarded.

Software Release: 5E6 and later
Required Field.
Default: "ALL"
Valid Entries:

Valid MDNL FWD Entries

Entry	Definition
ALL	The Master TN and its Dependent TNs will be forwarded.
DEPEND	The Dependent TNs will be forwarded only.
MASTER	The Master TN will be forwarded only.

Data Rules:

If "DEPEND" is entered, the MDNL ENHANCED field must have a value of "Y".

If "MASTER" is entered and the MDNL ENHANCED field has a value of "N", the FWD CONDITION field must have a value of "BOTH".

2.17 MDNL RCF

Description: For lines that have the MDNL feature, this field indicates if calls to the Master TN and/or Dependent TNs will be forwarded when activated via a Remote Access feature, e.g. RACF, ACF.

Software Release: 5E6 and later
Required Field.
Default: ALL
Valid Entries:

Valid MDNL RCF Entries

Entry	Definition
ALL	The Master TN and its Dependent TNs will be forwarded.
DEPEND	The Dependent TNs will be forwarded only.
MASTER	The Master TN will be forwarded only.

Data Rules:

If "DEPEND" is entered, the MDNL ENHANCED field must have a value of "Y".

2.18 CFDA AFTER CW

Description: Will the line have unanswered call waiting calls forwarded to a remote DN when there is a CFDA feature assigned to the line?

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

If the Secured Feature ID is not set to "S" on the SFSYS form (5713 Record) the value of CFDA AFTER CW must be either blank or set to "Y" for unshared analog lines that have a CFDA feature FWD CONDITION equal to "IDLE".

If CFDA AFTER CW is set to "Y", the TN must be assigned to a CFDA feature that is defined on the CFWFD form (5614-1/2 Records) with a FWD CONDITION of "IDLE", "PIDL", or "PRCI".

If CFDA AFTER CW is set to "Y", the line cannot be defined on a DSLUSR form (5908 Record).

If CFDA AFTER CW is set to "Y", the TN cannot be defined on the LINE form (5109-1/2/3 Records) with SHARED equal to "Y".

When CFDA AFTER CW is not entered, it is set to "Y" for unshared analog lines with CFDA features and "N" for all other lines.

For 5E9(1) and later, the CFDA AFTER CW field on the CFWLPA form is used by the Call Forwarding Don't Answer after Call Waiting feature. It is a secured feature and must be purchased by the office before the default values may be changed. If an SFSYS form does not exist with SFID 62 ACT set to "Y"', the CFDA AFTER CW field must be set to either blank or "Y"' if the TN is defined on the LINE form with the SHARED field equal to "N"' and the feature is defined on the CFWFD form with the FWD CONDITION field set to

"IDLE"', "PIDL", or "PRCI":

For 5E16(2) and later, when CFDA AFTER CW is set to "Y", the TNs must have a CFDA feature defined on the CFWFD form (5614-1/2 Record) where FWD CONDITION is equal to "IDLE", "PIDL", or "PRCI":

2.19 CFIMB

Description: Should the Call Forward Inhibit Make Busy option be activated? If CFIMB is "Y", the CFBL (Call Forwarding Busy Line) feature assigned to this line will be inhibited when the subscriber has made the line busy by activating the Make Busy Key. Incoming calls in that case will be routed to busy (or overflow) tone as determined by the OVF CFI field. If the make busy key is off, incoming calls receive the normal CFBL treatment.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. If CFILB is "Y", CFIMB must be "N".

The Inhibit Make Busy option applies only to Call Forwarding Busy Line features. If CFIMB is "Y", the CFBL feature assigned to this line must be defined on a CFWFD form with FWDCOND set to "BUSY".

A CFBL-IMB feature is assigned to a line by service order and cannot be activated or deactivated by the subscriber. If CFIMB is "Y", the CFBL feature assigned to this line must be defined on a CFWFD form with ACT TYPE "AUTO" and DACT TYPE "NONE".

A TN that is assigned a CFBL-IMB feature must have a make busy key. When a TN is assigned a CFBL feature (via a LINEFA, BFG, or associated CLUSTR form) and has the IMB option set to "Y", the MAKE BUSY KEY must be entered on the LINE form (5109 Record).

2.20 CFILB

Description: Should the Call Forward Inhibit Line Busy option be activated? If CFILB is "Y", the CFBL (Call Forwarding Busy Line) feature assigned to this line will be inhibited when the line is busy and the subscriber has not activated the Make Busy Key. Incoming calls in that case will be routed to busy or overflow tone, as determined by the OVF CFI field. If the make busy key is on, incoming calls receive the normal CFBL treatment.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. If CFIMB is "Y", CFILB must be "N".

The Inhibit Line Busy option applies only to Call Forwarding Busy Line features. If CFILB is "Y", the CFBL feature assigned to this line must be defined on a CFWFD form with FWDCOND set to "BUSY".

A CFBL-ILB feature is assigned to a line by service order and cannot be activated or deactivated by the subscriber. If CFILB is "Y", the CFBL feature assigned to this line must be defined on a CFWFD form with ACT TYPE "AUTO" and DACT TYPE "NONE".

A TN that is assigned a CFBL-ILB feature must have a make busy key. When a TN is assigned a CFBL feature (via a LINEFA, BFG, or associated CLUSTR form) and has the ILB option set to "Y", the MAKE BUSY KEY must be entered on the LINE form (5109 Record).

2.21 OVF CFI

Description: Should overflow (reorder) tone be returned to a caller when the call is not forwarded because of CFIMB or CFILB? If this field is "N", the caller will receive a busy tone.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This option only applies to Call Forward Busy Line features having the Inhibit Make Busy or the Inhibit Line Busy option. If OVF CFI is "Y", either CFIMB or CFILB must be "Y".

2.22 FCCS OPT

Description: Is the Forwarded Call - Call Screening feature option active on this line?

Software Release: 5E14 and later
Required field.
Default: N
Valid Entries: Y, N

Data Rules:

When FCCS OPT is "Y", the following must be true:

On the CFWFD form:

ACT TYPE must be "AUTO" or "CODE"

DACT TYPE must be "CODE" or "NONE"

CHANGE FWD TO DN must be "N"

FWD CONDITION must be "BUSY"or "IDLE"

On the LINE form:

SHARED must "N"

SERHLN must be unknown

ASSOC OE must be unknown

this TN must be defined

On the LCC form, LINE CLASS CODE and TERMINATING TREATMENT must both be "INDIV".

This TN must not be defined on the MLHLN form.

For 5E16 and later:

When FCCS OPT is "Y" and on the CFWFD form (5614-1 Record) the ACT TYPE or DACT TYPE field is set to "CODE", the ACT field for SFID 592 on the SFSYS form (5713-1 Record) must be set to "Y".

When FCCS OPT is "Y" and on the CFWFD form (5614-1 Record) the ACT TYPE field is set to "AUTO" or the DACT TYPE is set to "NONE", the ACT field for SFID 526 on the SFSYS form must be set to "Y".

When FCCS OPT is "Y" and on the CFWFD form (5614-1 Record), FWD CONDITION must be set to "BUSY" or "IDLE", ACT TYPE must be set to "AUTO" or "CODE", DACT TYPE must be set to "CODE" or "NONE", and CHANGE FWD TO DN must be set "N".

On the SFSYS form the ACT field must be "Y" for SFID 526.

2.23 CFDARC

Description: Activate the Call Forward Don't Answer Ring Control option? This field specifies whether or not the Call Forwarding Don't Answer Ring Control is active for this line.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When CFDARC is "Y":

the ACT field for SFID 335 on the SFSYS form (5713-1 Record) must be "Y".

the corresponding CFWFD form (5614-1/2 Record) must have FWD CONDITION set to "DIDL", "IDLE", "PIDL", or "PRCI", and CHANGE DON'T ANSWER TIMING set to "Y".

2.24 CFV ALERT

Description: This field indicates whether the Call Forwarding Variable Alert option is active for this line.

Software Release: 5E12 and later
Valid Entries: Y, N

Data Rules:

When CFV ALERT is set to "Y", the ACT field for SFID 341 on the SFSYS form (5713-1 Record) must also be set to "Y".

When CFV ALERT is set to "Y", FWD CONDITION on the CFWFD form (5614-1/2 Record) must be set to "BOTH".

2.25 INH CF MASTER

Description: Is Call Forwarding inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF MASTER must be "N".

If INH CF MASTER is "Y", then INH CF DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.26 INH CF DEPEND

Description: Is Call Forwarding inhibited for the dependent TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF DEPEND must be "N".

If INH CF DEPEND is "Y", then INH CF MASTER must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.27 INHIBIT MDNL CF

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CF must be "NONE".

```
cfwlpa                             5ESS Switch
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5614-3a/b)           CALL FORWARDING LINE (TN) PARAMETERS

*1. TN                      __________
*2. FEATURE                 ________
```

```
 3. FORWARD TO DN            ________________________________
 4. ACCT CODE                _______________
 5. ATH CODE                 _______________
 6. DON'T ANSWER TIMING      30
 7. SIMUL INTEROFF FWD CALLS 01
 8. SIMUL INTRAOFF FWD CALLS 99
 9. SEQ ACT FWD LEGS         05
10. BASE STA RING IND?       Y
11. MDNL ENHANCED            N
12. MDNL FWD                 ALL
```

```
cfwlpa                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5614-3a/b)          CALL FORWARDING LINE (TN) PARAMETERS

13. MDNL RCF      ALL
15. CFDA AFTER CW _
16. CFIMB         N
17. CFILB         N
18. OVF CFI       N
19. CFDARC        N
20. CFV ALERT     N
```

Figure 1 SAMPLE CFWLPA FORM 5E12 THROUGH 5E13 SOFTWARE RELEASES

```
cfwlpa                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5614-3a/b)          CALL FORWARDING LINE (TN) PARAMETERS

*1. TN                       __________
*2. FEATURE                  ________
 3. FORWARD TO DN            ________________________________
 4. ACCT CODE                _______________
 5. ATH CODE                 _______________
 6. DON'T ANSWER TIMING      30
 7. SIMUL INTEROFF FWD CALLS 01
 8. SIMUL INTRAOFF FWD CALLS 99
 9. SEQ ACT FWD LEGS         05
10. BASE STA RING IND?       Y
11. MDNL ENHANCED            N
12. MDNL FWD                 ALL
```

```
cfwlpa                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5614-3a/b)          CALL FORWARDING LINE (TN) PARAMETERS
```

```
13. MDNL RCF      ALL
15. CFDA AFTER CW _
16. CFIMB         N
17. CFILB         N
18. OVF CFI       N
19. FCCS OPT      N
20. CFDARC        N
21. CFV ALERT     N
22. INH CF MASTER N
23. INH CF DEPEND N
```

Figure 2 SAMPLE CFWLPA FORM 5E14 SOFTWARE RELEASES

```
cfwlpa                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5614-3a/b)          CALL FORWARDING LINE (TN) PARAMETERS

*1. TN                       __________
*2. FEATURE                  ________
 3. FORWARD TO DN            ________________________________
 4. ACCT CODE                _______________
 5. ATH CODE                 _______________
 6. DON'T ANSWER TIMING      30
 7. SIMUL INTEROFF FWD CALLS 01
 8. SIMUL INTRAOFF FWD CALLS 99
 9. SEQ ACT FWD LEGS         05
10. BASE STA RING IND?       Y
11. MDNL ENHANCED            N
12. MDNL FWD                 ALL
```

```
cfwlpa                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5614-3a/b)          CALL FORWARDING LINE (TN) PARAMETERS

13. MDNL RCF        ALL
15. CFDA AFTER CW   _
16. CFIMB           N
17. CFILB           N
18. OVF CFI         N
19. FCCS OPT        N
20. CFDARC          N
21. CFV ALERT       N
22. INHIBIT MDNL CF NONE
```

Figure 3 SAMPLE CFWLPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 15C: 5614-4 RECORD
CALL FORWARDING LINE (MLHG/TERM) PARAMETER FORM - CFWMPA

1. GENERAL

The 5614-4 Record is available with the 5E2 and later Software Releases. It is used to define specific parameters assigned to every Multi-Line Hunt Line assigned a specific constructed Call Forwarding feature. It is required only if the default parameters assigned on the CFWFD form are inappropriate.

1.1 CFW Assignment Restrictions

The following are restrictions for Call Forwarding features assigned to Multi-Line Hunt lines:

- Only one Call Forwarding Busy (FWD CONDITION equals "BUSY" on the CFWFD form) and one Call Forwarding Variable (FWD CONDITION equals "BOTH" on the CFWFD form) can be assigned to Multi-Line Hunt lines.
- If a Call Forwarding Busy is assigned to a Multi-Line Hunt line, then CF BUSY on the associated MLHGFD form must be "Y".
- If a Call Forwarding Variable feature is assigned to Multi-Line Hunt lines, then CF VARIABLE on the associated MLHGFD form must be "Y".
- If a Call Forwarding feature with forward to Directory Number specified on either CFWFD form or CFWMPA form is assigned to Multi-Line Hunt lines, and the associated HUNT TYPE on the MLHGFD form does not equal "MUPH", then forward to Directory Number must not be the same as LISTED TN on the associated MLHG form.
- If a Call Forwarding feature with forward to Directory Number specified on either CFWFD form or CFWMPA form is assigned to Multi-Line Hunt Lines, and the associated Hunt Type on MLHGFD form equals MUPH, then forward to Directory Number must not be the same as SUBTN(i), where i ranges from 1 to 6 and SUBTN(i) is specified on the associated MLHG form.

1.2 Recent Change View

The corresponding Recent Change View for this form is 3.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *MLHG

Description: Enter a four digit Multi-Line Hunt Group Number.
Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

2.3 *TERM

Description: Enter the Multi-Line Hunt Member Number.
Valid Entries: 4-digits

Data Rules:

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be one of the following:

CLASS OF SERVICE	
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network (ISDN) digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
SATSTLN	Stand-Alone Test Line.
4WINDIV	Software Release: 5E3 and later. 4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Software Release: 5E3 and later. Line to a PBX.

2.4 *FEATURE

Description: Enter the Feature Name.
Valid Entries: 1 - 8 characters

2.5 FORWARD TO DN

Description: Enter the Forward To Directory Number.
Valid Entries: up to 32 characters (0 - 9, *, and/or #)

Data Rules:

If FORWARD TO DN is specified, then ACT TYPE on the CFWFD form must equal "AUTO", "CODE", or "KEY".

For 5E3 and later, the FORWARD TO DN is required when the FWD CONDITION on the CFWFD form (5614-1 Record) is "BUSY", "IDLE", or "BOTH".

The FORWARD TO DN will be translated during call processing using the originator's dialing plan(s). Therefore, if the originator has an Individualized Dialing feature with an IDP group, the digits entered must be successful using the IDPDCA form entries. For example, if the originator normally dials an intercom digit string of four digits to call a phone, then the four digits should be entered here to forward to the same phone.

For 5E5 and later, when CFPF ALW is "Y" on the associated CFWFD form, this field can contain the following codes in many different dialing sequences:

- PFA access code
- Account Code use code
- Authorization Code use code
- ARS use code

- Directory Number

The account and authorization codes are entered in the ACCT CODE and ATH CODE fields.

2.6 ACCT CODE

Description: Enter the Account Code used by Call Forwarding Over Private Facility for the invocation of CFPF.

Software Release: 5E5 and later
Valid Entries: up to 15 characters (0 - 9, *, and/or #)

Data Rules:

When ACCT CODE is entered, then CFPF ALW must be "Y" on the associated CFWFD form and FORWARD TO DN must contain an Account Use code along with the DN and other use codes.

When this field is entered, an associated Account Code feature defined on the ACCTFD form (5623-1 Record) must be assigned on the associated LINEFA, MLHLNFA, BFG, or CLUSTR form with the feature active to allow calls to be forwarded with this account code.

2.7 ATH CODE

Description: This field allows the Authorization Code used by Call Forwarding Over Private Facilities to be defaulted for CFPF invocations.

Software Release: 5E5 and later
Valid Entries:
    For 5E5 - 5E7: 1 - 15 characters (0 - 9, *, #)
    For 5E8 and later: 1 - 15 digits

Data Rules:

When ATH CODE is entered, then CFPF ALW must be "Y" on the associated CFWFD form and FORWARD TO DN must contain an Authorization Use code along with the DN and other use codes.

When this field is entered, an associated Authorization feature defined on the ATHFD form (5619-1 Record) must be assigned to the associated LINEFA, MLHLNFA, BFG, or CLUSTR form with the feature active to allow calls to be forwarded with this authorization code.

2.8 DON'T ANSWER TIMING

Description: For the Call Forward Don't Answer feature, enter the time delay (in seconds) before a call will be forwarded.
Default: 30
Valid Entries: 0 - 60

Data Rules:

If this field is greater than 0, then FWD CONDITION on the CFWFD form must be equal to "IDLE", "PRCI" or "PIDL".

For 5E5 and later, this field must have a value of 4 to 60 when the associated CFWFD form has a FWD

CONDITION with a value of "IDLE" or "PIDL" to allow the terminal to be rung at least once before it is considered idle and the call is Forwarded. During a retrofit to 5E5, if this field has a value of 0 to 3 and the above conditions are met, this field will be evolved to the value of 4.

2.9 SIMUL INTEROFF FWD CALLS

Description: Enter maximum number of simultaneously active interoffice calls allowed between base station and forward to DN.
Default: 1
Valid Entries: 1 - 99

Data Rules:

If the forward to directory number resides in a MLHG, it is recommended that the valid entries are from 1 to the maximum number of lines within the MLHG. Entering the value of the maximum size of the MLHG allows efficient use of all terminals within the forward to MLHG. If the base TN is terminal 1 in a MLHG, the entry can be defined as the size of the base MLHG to ensure that the number of simultaneously forwarded calls is equivalent to the number of calls that could be completed to the MLHG without the call forwarding feature being present.

2.10 SIMUL INTRAOFF FWD CALLS

Description: Enter maximum number of simultaneously active intraoffice calls allowed between the base station and forward to DN.
Default: 99
Valid Entries: 1 - 99

2.11 SEQ ACT FWD LEGS

Description: Enter maximum number of Call Forwarding legs allowed to be sequentially forwarded. The SEQ ACT FWD LEGS limit is exceeded if any individual line in a Call Forwarding chain has its limit exceeded.
Default: 5
Valid Entries: 1 - 32

2.12 BASE STA RING IND

Description: Should the Base Station Ringing Indicator be allowed? The Base Station Ringing Indicator is a normal ring of 0.5 seconds duration which is applied to an idle line indicating that an incoming call to that line is being forwarded.
Default: Y
Valid Entries: Y, N

2.13 ANNC RTI

Description: This field is not used. For 5E7 and later, it was removed from the form.

Software Release: 5E5 and 5E6 only

2.14 CFDA AFTER CW

Description: Will the line have unanswered call waiting calls forwarded to a remote DN when there is a CFDA feature assigned to the line?

Software Release: 5E7 and later
Valid Entries: Y, N

Data Rules:

If the Secured Feature ID is not set to "Y" on the SFSYS form (5713 Record) the value of the CFDA AFTER CW must be either blank or set to "Y" for unshared analog MLHG terminals.

If CFDA AFTER CW is set to "Y", the MLHG/TERM must be assigned a CFDA feature that is defined on the CFWFD form with a FWD CONDITION of "IDLE"', "PIDL", or "PRCI".

If CFDA AFTER CW is set to "Y", the MLHG/TERM cannot be defined on a DSLUSR form (5908 Record).

When CFDA AFTER CW is not entered, it is set to "Y" for unshared analog lines with CFDA features and "N" for all other lines.

2.15 CFIMB

Description: Should the Call Forward Inhibit Make Busy option be activated? If CFIMB is "Y", the CFBL (Call Forwarding Busy Line) feature assigned to this MLHG will be inhibited when the subscriber has made the line busy by activating the group Make Busy Key or Feature Button. Incoming calls in that case will be routed to busy (or overflow) tone as determined by the OVF CFI field. When the make busy key or feature button is not activated, incoming calls receive the normal CFBL treatment.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. If CFILB is "Y", CFIMB must be "N".

The Inhibit Make Busy option applies only to Call Forwarding Busy Line features. If CFIMB is "Y", the FEATURE on this form must be defined on a CFWFD form with FWDCOND set to "BUSY".

A CFBL-IMB feature is assigned to a MLHG by service order and cannot be activated or deactivated by the subscriber. If CFIMB is "Y", the FEATURE on this form must be defined on a CFWFD form with ACT TYPE "AUTO" and DACT TYPE "NONE".

An MLHG that is assigned a CFBL-IMB feature must have a group make busy key or feature button. When an MLHG/TERM is assigned a CFBL feature (via an MLHLNFA, BFG, or associated CLUSTR form) and has the IMB option set to "Y", it must also be assigned a group make busy key/button in one of two ways:

- the GROUP MAKE BUSY KEY on the corresponding MLHG form (5110 Record) may be entered; or
- if Member 1 of the MLHG is defined on a DSLUSR form (5908 Record), there may be a corresponding entry on a CFGGRP form (5964 Record) with ACTION set to "BYGP".

A CFBL-IMB feature may be assigned to regular, circular, and UCD Multi-Line Hunt Groups. The MLHG FEATURE assigned on the MLHG form must be defined on an MLHGFD form (5604 Record) with HUNT TYPE equal to "REG", "HTC", or "UCD".

2.16 CFILB

Description: Should the Call Forward Inhibit Line Busy option be activated? If CFILB is "Y", the CFBL (Call Forwarding Busy Line) feature assigned to this MLHG will be inhibited when the MLHG is busy and the subscriber has NOT activated the group Make Busy Key or Feature Button. Incoming calls in that case will be routed to busy (or overflow) tone, as determined by the OVF CFI field, when the MLHG is busy. If the make busy key or feature button is on, incoming calls receive the normal CFBL treatment.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

A Call Forward feature may not have both the Inhibit Make Busy and Inhibit Line Busy options. If CFIMB is "Y", CFILB must be "N".

The Inhibit Line Busy option applies only to Call Forwarding Busy Line features. If CFILB is "Y", the FEATURE on this form must be defined on a CFWFD form with FWDCOND set to "BUSY".

A CFBL-ILB feature is assigned to a MLHG by service order and cannot be activated or deactivated by the subscriber. If CFILB is "Y", the FEATURE on this form must be defined on a CFWFD form with ACT TYPE "AUTO" and DACT TYPE "NONE".

An MLHG that is assigned a CFBL-ILB feature must have a group make busy key or feature button. When an MLHG/TERM is assigned a CFBL feature (via an MLHLNFA, BFG, or associated CLUSTR form) and has the IMB option set to "Y", it must also be assigned a group make busy key/button in one of two ways:

- the GROUP MAKE BUSY KEY on the corresponding MLHG form may be entered; or
- if Member 1 of the MLHG is defined on a DSLUSR form, there may be a corresponding entry on a CFGGRP form with ACTION set to "BYGP".

A CFBL-ILB feature may be assigned to regular, circular, and UCD Multi-Line Hunt Groups. The MLHG FEATURE assigned on the MLHG form must be defined on an MLHGFD form with HUNT TYPE equal to "REG", "HTC", or "UCD".

2.17 OVF CFI

Description: Should overflow (reorder) tone be returned to a caller when the call is not forwarded because of CFIMB or CFILB? If this field is "N", the caller will receive a busy tone.

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This option only applies to Call Forward Busy Line features having the Inhibit Make Busy or the Inhibit Line Busy option. If OVF CFI is "Y", either CFIMB or CFILB must be "Y".

2.18 FCCS OPT

Description: This field is used to determine whether or not THE FCCS (Forwarded Call - Call Screening) feature option be used. This is a No Change field.

Software Release: 5E16 and later
Default: N
Valid Entries: Y, N

2.19 CFDARC

Description: Activate the Call Forward Don't Answer Ring Control option? This field specifies whether or not the Call Forwarding Don't Answer Ring Control is active for this line.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When CFDARC is "Y":

> the ACT field for SFID 335 on the SFSYS form (5713-1 Record) must be set to "Y".
>
> the corresponding CFWFD form (5614-1/2 Record) must have FWD CONDITION set to "DIDL", "IDLE", "PIDL", or "PRCI", and CHANGE DON'T ANSWER TIMING set to "Y".

2.20 CFV ALERT

Description: This field indicates whether the Call Forwarding Variable Alert option is active for this line.

Software Release: 5E12 and later
Valid Entries: Y, N

Data Rules:

When CFV ALERT is set to "Y", the ACT field for SFID 341 on the SFSYS form (5713-1 Record) must also be set to "Y".

When CFV ALERT is set to "Y", FWD CONDITION on the CFWFD form (5614-1/2 Record) must be set to "BOTH".

2.21 INH CF MASTER

Description: Is Call Forwarding inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF MASTER must be "N".

If INH CF MASTER is "Y", then INH CF DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.22 INH CF DEPEND

Description: Is Call Forwarding inhibited for the depend TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CF DEPEND must be "N".

If INH CF MASTER is "Y", then INH CF DEPEND must be "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

2.23 INHIBIT MDNL CF

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CF must be "NONE".

```
cfwmpa                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5614-4)          CALL FORWARDING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                     ____                               13. CFIMB     N
*2. TERM                     ____                               14. CFILB     N
*3. FEATURE                  ________                           15. OVF CFI   N
 4. FORWARD TO DN            ________________________________   16. CFDARC    N
 5. ACCT CODE                _______________                    17. CFV ALERT N
 6. ATH CODE                 _______________
 7. DON'T ANSWER TIMING      30
 8. SIMUL INTEROFF FWD CALLS 01
 9. SIMUL INTRAOFF FWD CALLS 99
10. SEQ ACT FWD LEGS         05
11. BASE STA RING IND?       Y
12. CFDA AFTER CW            _
```

Figure 1 SAMPLE CFWMPA FORM 5E12 AND 5E13 SOFTWARE RELEASES

```
cfwmpa                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5614-4)          CALL FORWARDING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                     ____
*2. TERM                     ____
*3. FEATURE                  ________
 4. FORWARD TO DN            ________________________________
 5. ACCT CODE                _______________
 6. ATH CODE                 _______________
 7. DON'T ANSWER TIMING      30
 8. SIMUL INTEROFF FWD CALLS 01
 9. SIMUL INTRAOFF FWD CALLS 99
10. SEQ ACT FWD LEGS         05
11. BASE STA RING IND?       Y
12. CFDA AFTER CW            _
```

```
cfwmpa                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5614-4)          CALL FORWARDING LINE (MLHG/TERM) PARAMETERS

13. CFIMB         N
14. CFILB         N
15. OVF CFI       N
    FCCS OPT      N
17. CFDARC        N
18. CFV ALERT     N
    INH CF MASTER N
    INH CF DEPEND N
```

Figure 2 SAMPLE CFWMPA FORM 5E14 SOFTWARE RELEASES

```
cfwmpa                            5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5614-4)          CALL FORWARDING LINE (MLHG/TERM) PARAMETERS

*1. MLHG                     ____
*2. TERM                     ____
*3. FEATURE                  ________
 4. FORWARD TO DN            ________________________________
 5. ACCT CODE                _______________
 6. ATH CODE                 _______________
 7. DON'T ANSWER TIMING      30
 8. SIMUL INTEROFF FWD CALLS 01
```

```
 9. SIMUL INTRAOFF FWD CALLS 99
10. SEQ ACT FWD LEGS         05
11. BASE STA RING IND?       Y
12. CFDA AFTER CW            _
```

```
cfwmpa                            5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5614-4)          CALL FORWARDING LINE (MLHG/TERM) PARAMETERS

13. CFIMB           N
14. CFILB           N
15. OVF CFI         N
    FCCS OPT        N
17. CFDARC          N
18. CFV ALERT       N
    INHIBIT MDNL CF NONE
```

Figure 3 SAMPLE CFWMPA FORM 5E15 - 5E16 SOFTWARE RELEASES

SEC. 16: MEASUREMENTS PARAMETER DEFINITION FORM

SEC. 16A: 5615 RECORD
MEASUREMENTS PARAMETER DEFINITION RECORD - MEASPDF

1. GENERAL

The 5615 Record is available with the 5E2 and later Software Releases. It is used to define measurements for various groups of features. With this capability the customer will be able to determine the impact of a given feature environment on the office with a great deal of flexibility. The features that the customer can control measurements for are:

- Constructed BRCS Features
- Individualized Dialing Plan Groups
- Terminal Groups
- Multi-Line Hunt Groups
- Attendant Multi-Line Hunt Groups
- Simulated Facility Groups (PFA)

Measurement groups must correspond to group numbers or feature names defined on the proper feature definition or parameter forms. The following list of modular features and their forms correspond to features that can be measured. If a measurement type is selected for measurement it must have been defined on one of these forms:

A. CONFT (Constructed Features)

Following is a list of feature definition forms for the constructed (including preconstructed) features which can be measured. These are the only constructed features which can be measured as such. The MLHG, Terminal Group and ARS constructed features cannot be measured as constructed feature members.

1. CFWFD - Call Forwarding

   Feature Definition form

   (5614-1/2 Record)

2. CWTFD - Call Waiting

   Feature Definition form

   (5603-1 Record)

3. DRFD - Distinctive Ringing

   Feature Definition form

   (5606-1 Record)

4. IDFD - Individualized Dialing

Feature Definition form

(5601 Record)

5. MWFD - Multiway Calling

Feature Definition form

(5602-1/2 Record)

6. PUOFD - Call Pick-up Originating

Feature Definition form

(5605-1a/b Record)

7. PUTFD - Call Pick-up Terminating

Feature Definition form

(5605-2a/b Record)

B. IDP Group Names must be defined on an IDFD form.

C. Terminal Groups must be defined as a GROUP ID with values of 1 - 65535 on either a TGSRFD form (5607-1/2 Record), a TGSRLPA form (5607-3 Record), a TGSRMPA form (5607-4 Record) or a TGSRTPA form (5607-5 Record).

D. Multi-Line Hunt Groups must be defined on an MLHG form (5110-1 Record).

E. Attendant Multi-Line Hunt Groups are MLHG Numbers defined on an MLHG form where the associated MLHG Members are assigned on MLHLN forms (5111-1 Record) with an LCC and RAX combination that is defined on an LCC form (5306 Record) with a CLASS OF SERVICE equal to "ATND".

1.1 Recent Change View

The corresponding Recent Change view for this form is 13.3.

2. FORM AND RECORD ENTRIES

2.1 * MEASUREMENT TYPE

Description: Enter the type of measurement.

Valid MEASUREMENT TYPE Entries

Entry	Definition
ACSR	Software Release: 5E5 and later. Automatic Customer Station Rearrangement Group, which is defined on an ACSRGP form (5959-2 Record). A maximum of 25 MEASPDF forms may be entered with MEASUREMENT TYPE set to "ACSR".
ATTGP	Multi-Line Hunt Groups defined on an MLHG form whoseassociated Members or Terminal Numbers are assigned a Classof Service of "ATND" or "ISATND"for Attendant Service. A maximum of 200 measurement-type entries of "ATTGP" are allowed.
CONFT	Preconstructed or switch constructed Feature Names. A maximum of 100 measurement-type entries of

	"CONFT" are allowed.
IDGP	Individualized Dialing Plan Group Name defined on an IDPGP and associated Individualized Dialing Feature Definition forms. A maximum of 150 measurement-type entries of "IDGP" are allowed.
LNQAN	Line Queue Announcements defined on a QUGPA form with matching GROUP NUMBER and a GROUP TYPE of "LINE". A maximum of 100 measurement-type entries of "LNQAN" are allowed.
LNQU	Line Queue defined on a QUGPA form (5617-3/4 Record) with matching GROUP NUMBER and a GROUP TYPE of "LINE". A maximum of 100 measurement-type entries of "LNQU" are allowed.
MLHGP	Multi-Line Hunt Group Numbers defined on an MLHG form. A maximum of 200 measurement-type entries of "MLHGP" are allowed.
PFAGP	Simulated Facility Group Number defined on a PFASFG form (5609-3 Record) associated with the Private Facility capability. A maximum of 200 measurement-type entries of "PFAGP" are allowed.
PPGP	Precedence and Preemption Group which is defined as a special Terminal Group on a PPSCRN form (5618-2 Record) where all associated members are also assigned a PP feature. Up to 10 PP Groups may be specified.
SFQAN	Software Release: 5E3 and later. SFG Queue Announcements defined on a QUGPA form with matching GROUP NUMBER and a GROUP TYPE of "SFG". A maximum of 75 measurement-type entries of "SFQAN" are allowed.
SFQU	Software Release: 5E3 and later. SFG Queue defined on a QUGPA form with matching GROUP NUMBER and a GROUP TYPE of "SFG". A maximum of 75 measurement-type entries of "SFQU" are allowed.
TERMGP	Terminal Group Numbers, defined as a GROUP ID on the Terminal Group Station Restriction forms. A maximum of 200 measurement-type entries of "TERMGP" are allowed.
TKQAN	Software Release: 5E3 and later. Trunk Queue Announcements defined on a QUGPA form with matching GROUP NUMBER and a GROUP TYPE of "TRK". A maximum of 75 measurement-type entries of "TKQAN" are allowed.
TKQU	Software Release: 5E3 and later. Trunk Queue defined on a QUGPA form with matching GROUP NUMBER and a GROUP TYPE of "TRK". A maximum of 75 measurement-type entries of "TKQU" are allowed.

Data Rules:

For every MEASUREMENT TYPE entered, either a NAME or a GROUP NUMBER must be specified. Both of these fields cannot be entered for a single MEASUREMENT TYPE.

If MEASUREMENT TYPE is "ATTGP", "PFAGP", "MLHGP", "TERMGP", "PPGP", "LNQU", "LNQAN", "TKQU", "TKQAN", "SFQU" or "SFQAN", then a GROUP NUMBER must be specified.

If MEASUREMENT TYPE is "ACSR", "CONFT" or "IDGP", then NAME must be specified with an ACSR Group Name, a BRCS Feature Name or an IDP Group Name.

For 5E7 and later if MEASUREMENT TYPE is "LNQU" OR "LNQAN", at least one MLHG member must be assigned to the MLHG represented by the GROUP NUMBER.

2.2 (*) NAME

Description: Optional key field which is dependent on the value of the MEASUREMENT TYPE field as follows.

MEASUREMENT TYPE	NAME
ACSR	Software Release: 5E5 and later. Enter the ACSR GRP defined on an ACSRGP form.
CONFT	Enter valid BRCS Feature Names from any of the following Feature Definition forms: CFWFD, CWTFD, DRFD, IDFD, MWFD, PUOFD, PUTFD.
IDGP	Enter the IDP GROUP NAME defined on an IDPGP form (5601-4 Record).

2.3 (*) GROUP NUMBER

Description: Optional key field which is dependent on the value of the MEASUREMENT TYPE field as follows.

MEASUREMENT TYPE	GROUP NUMBER
MLHGP, ATTGP, LNQU, or LNQAN	Enter valid MLHG Number in the range of 1 - 1 for 5E14 and earlier or 1 - 8191 for 5E15 and later.
PFAGP, SFQU, or SFQAN	Enter a valid SFG Number in the range 1 - 2000.
TERMGP or PPGP	Enter a valid Terminal Group ID in the range 1 - 65535.
TKQU or TKQAN	Enter a valid Trunk Group Number in the range 1 - 2000.

```
measpdf                         5ESS Switch           _
(5615)                   OFFICE DATA ADMINISTRATION
                       MEASUREMENT PARAMETER DEFINITION


  * 1. MEASUREMENT TYPE  ACSR
 (*)2. NAME              ACSRGP1
 (*)3. GROUP NUMBER      ______
```

Figure 1 SAMPLE MEASPDF FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 17: AUTOMATIC CALL-BACK FEATURE FORMS

SEC. 17A: 5616-1 RECORD
AUTOMATIC CALL-BACK FEATURE DEFINITION FORM - ACBFD

1. GENERAL

The 5616-1 Record is available with the 5E2 and later Software Releases. It is used to define various combinations of Automatic Call-Back options for assignment to lines and/or trunks. Each combination is given a feature name of one to eight characters which is used to assign the constructed (defined) feature to lines. Certain ACB features are pre-defined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/) and the slash may not be used as the first character is any feature other than preconstructed features. A list of the preconstructed ACB features is contained in Figure 1 .

The Automatic Call-Back feature enables a calling party encountering a busy station to dial an activation code and be automatically called back when the called station becomes idle.

The ACB features can be assigned only to lines that have a Class of Service of "INDIV", "PBX" or "4WINDIV" on the LCC form (5306 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 12.10.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name.

2.2 * FEATURE

Description: Enter the automatic call-back feature name. There are no restrictions on the valid characters except that feature names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed, or inserted.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

2.4 INTRAGROUP CALLBACK ONLY

Description: Is camp-on allowed only within the originator's Terminal Group? Enter "N" to indicate that a line assigned this feature can camp-on a line outside of the originator's terminal group (but within the 5ESS office).
Valid Entries: Y, N

Data Rules:

If this field is "Y", then this ACB Feature, which is assigned on the associated feature form (LINEFA, MLHLNFA or CLUSTR), must also have a TGSR (Terminal Group Station Restriction) feature defined on the TGSRFD form.

2.5 FLAT RATE

Description: Is billing at a flat rate? "Y" is the default and only value allowed.
Default: Y
Valid Entries: Y, N

Data Rules:

If "Y" is entered, neither a camp-on charge nor a connection charge is allowed. If "N" is entered, either a camp-on or a connection charge, or both must be "Y".

2.6 CAMP-ON CHARGE

Description: Is the customer billed for each use of Automatic Call-Back, i.e. each time the customer camps on to another line? Enter "N" if not. "N" is the default and only allowed entry.
Default: N
Valid Entries: Y, N

Data Rules:

This item must be "N" if FLAT RATE is "Y".

2.7 CONNECTION CHARGE

Description: Is the customer billed for each connection to a camped-on line? Enter "N" if not. "N" is the default and only allowed entry.
Default: N
Valid Entries: Y, N

Data Rules:

This item must be "N" if FLAT RATE is "Y".

DEFAULT PARAMETERS

The default parameters (fields Section 2.8 - Section 2.9) are automatically assigned to lines when the lines are assigned the Automatic Call-Back feature unless an ACBLPA form is entered with the line to specify a different set of parameters.

2.8 RINGING PATTERN

Description: Enter the pattern of ringing to be given to the originator when the camped-on line becomes idle.
Default: C
Valid Entries:

Valid RINGING PATTERN Entries

Entry	Definition
A	For a ringing pattern of 2 seconds on, 4 seconds off, repeated for the duration of the ringing interval.
B	For a ringing pattern of 0.8 seconds on, 0.4 seconds off, repeated for the duration of the ringing interval.
C	For a ringing pattern of 0.4 seconds on, 0.2 seconds off, repeated for the duration of the ringing interval.
D	For a ringing pattern of 1 second on, 1 second off, 1 second on, 3 seconds off, repeated for the duration of

	the ringing interval.
E	For a routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
F	For a priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
P	For a precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval.

2.9 RINGING INTERVAL

Description: Enter the interval (in seconds) of ringing to be provided to the originator when the camped-on line becomes idle.
Default: 24
Valid Entries: 24, 30, 36, 42 and 48 (seconds)

ESS 5616-1 TG-5
AUTOMATIC CALL - BACK
FEATURE DEFINITION RECORD
DATE ___________
ACBFD
5ESS SWITCH
12.10
BASE______CONT GR____
5ESS UNIT ___________________

FEATURE NAME	REMARKS	I G O N R N T O L R U Y A P	BILLING			DEF PARAM	
			F L A T	C O A N M P	C O N N	R P I A N T G	R I I N N T G
/ACBC	AUTO CALL-BACK CALLING	Y	Y	N	N	C	24
/CB*	WILD CARD AUTO CALL BACK	Y	Y	N	N	C	24

Figure 1 PRECONSTRUCTED ACB FEATURES 5E5 AND LATER SOFTWARE RELEASES

```
acbfd                          5ESS Switch          _
(5616-1)                 OFFICE DATA ADMINISTRATION
                    AUTOMATIC CALL-BACK FEATURE DEFINITION


* 2. FEATURE NAME  ACB3            3. REMARKS  ________________________________

  4. INTRAGROUP CALLBACK ONLY      Y
  5. FLAT RATE                     Y
```

```
 6. CAMP-ON CHARGE                N
 7. CONNECTION CHARGE             N

 DEFAULT PARAMETERS:
 8. RINGING PATTERN               C
 9. RINGING INTERVAL              24
```

Figure 2 SAMPLE ACBFD FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 17B: 5616-2 RECORD
AUTOMATIC CALL-BACK LINE (TN)
PARAMETERS FORM - ACBLPA

1. GENERAL

The 5616-2 Record is available with 5E2 and later Software Releases. It is used when assigning ACB features to non-Multi-Line Hunt lines when the default parameters associated with the ACB feature (defined on an ACBFD form) are inappropriate or unspecified. Do not enter this record if the ACBFD form (5616-1 Record) default parameters are acceptable.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the line.

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:

The Telephone Number entered here must be defined on a LINE form (5109 Record).

The TN entered must also be entered in the TN field on a LINEFA form (5112 Record).

The associated CLASS OF SERVICE on an LCC form (5306 Record) must be one of the following.

Class of Service

Entry	Definition
INDIV	Individual Line
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.

For 5E12 and later, TN/FEATURE combinations on different ACBLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the ACBLPA 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 * FEATURE

Description: Enter the name of the ACB feature for which the parameters are to be assigned. The name entered here must be that of a non-"wild card" ACB feature defined on an ACBFD form.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The feature entered must appear on a LINEFA form or a CLUSTR form (5600 Record) or a BFG form (5625 Record) which is associated with the TN on this form.

2.4 RINGING PATTERN

Description: Enter the pattern of ringing to be given to the originator when the camped-on line becomes idle.

Required Field.
Default: C
Valid Entries:

Valid RINGING PATTERN Entries

Entry	Definition
A	For a ringing pattern of 2 seconds on, 4 seconds off, repeated for the duration of the ringing interval.
B	For a ringing pattern of 0.8 seconds on, 0.4 seconds off, repeated for the duration of the ringing interval.
C	For a ringing pattern of 0.4 seconds on, 0.2 seconds off, repeated for the duration of the ringing interval.
D	For a ringing pattern of 1 second on, 1 second off, 1 second on, 3 seconds off, repeated for the duration of the ringing interval.
E	For a routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a CLASS OF SERVICE of "4WINDIV" on an LCC form.
F	For a priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a CLASS OF SERVICE of "4WINDIV" on an LCC form.
P	For a precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval.

2.5 RINGING INTERVAL

Description: Enter the interval (in seconds) of ringing to be provided to the originator when the camped-on line becomes idle.

Required Field.
Default: 24
Valid Entries: 24, 30, 36, 42 and 48 (seconds)

```
acblpa                          5ESS Switch            _
(5616-2)                 OFFICE DATA ADMINISTRATION
                   AUTOMATIC CALL-BACK LINE (TN) PARAMETERS


* 1. TN                7265301
* 2. FEATURE           ACB1

  3. RINGING PATTERN   A
  4. RINGING INTERVAL  48
```

Figure 1 SAMPLE ACBLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
acblpa                            5ESS Switch            _
                              OFFICE DATA ADMINISTRATION
(5616-2)           AUTOMATIC CALL-BACK LINE (TN) PARAMETERS

*1. TN      __________
*2. FEATURE ________

 3. RINGING PATTERN  C
 4. RINGING INTERVAL 24
```

Figure 2 SAMPLE ACBLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 17C: 5616-3 RECORD
AUTOMATIC CALL-BACK LINE (MLHG/TERM)
PARAMETER FORM - ACBMPA

1. GENERAL

The 5616-3 Record is available with the 5E2 and later Software Releases. It is used when assigning ACB feature parameters to Multi-Line Hunt lines if the default parameters associated with the ACB feature (on the ACBFD Form) are inappropriate or unspecified. Do not enter this record if the ACBFD default parameters are acceptable.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.20.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

2.3 * TERM

Description: Enter the Multi-Line Hunt Group member number of the line.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
INDIV	Individual Line.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.
PBX	Line to a PBX.

2.4 * FEATURE

Description: Enter the name of the ACB feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ACB feature defined on the ACBFD Form. The name of the ACB "wild-card" feature may not be used here.

2.5 RINGING PATTERN

Description: Enter the pattern of ringing to be given to the originator when the camped-on line becomes idle.
Default: C
Valid Entries:

Valid RINGING PATTERN Entries

Entry	Definition
A	For a ringing pattern of 2 seconds on, 4 seconds off, repeated for the duration of the ringing interval.
B	For a ringing pattern of 0.8 seconds on, 0.4 seconds off, repeated for the duration of the ringing interval.
C	For a ringing pattern of 0.4 seconds on, 0.2 seconds off, repeated for the duration of the ringing interval.
D	For a ringing pattern of 1 second on, 1 second off, 1 second on, 3 seconds off, repeated for the duration of the ringing interval.
E	For a routine ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
F	For a priority ringing pattern associated with the Customer Premise Equipment. Valid with DSN (Defense Switched Network) Offices with a Class of Service of "4WINDIV" on the LCC form.
P	For a precedence ringing pattern of 1640 milliseconds on, 360 milliseconds off, repeated for the duration of the ringing interval.

2.6 RINGING INTERVAL

Description: Enter the interval (in seconds) of ringing to be provided to the originator when the camped-on line becomes idle.
Default: 24
Valid Entries: 24, 30, 36, 42 and 48 (seconds)

```
acbmpa                           5ESS Switch            _
(5616-3)                  OFFICE DATA ADMINISTRATION
               AUTOMATIC CALL-BACK LINE (MLHG/TERM) PARAMETERS


* 1. MLHG                 0017
* 2. TERM                 0027
* 3. FEATURE              MYOWN

  4. RINGING PATTERN      B
  5. RINGING INTERVAL     36
```

Figure 1 SAMPLE ACBMPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 18: MODULAR QUEUING FORMS

SEC. 18A: 5617-1a/b/c RECORD
MODULAR QUEUING FEATURE DEFINITION FORM - QUFD

1. GENERAL

The 5617-1a/b/c Records are available with 5E2 and later Software Releases to define Modular Queuing features.

Certain Modular Queuing features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. The preconstructed Modular Queuing features are shown beginning with Figure 1.

1.1 MLHG Queuing Features

Modular Queuing provides queuing for calls attempting to terminate to the listed Directory Number of an MLHG (Multi-Line Hunt Group) when all of the terminals of the MLHG are busy.

When queuing is desired for a Multi-Line Hunt Group, the Modular Queuing Feature is assigned on the MLHG form (5110-1 Record) as the QUEUING FEATURE. Queuing is allowed for MLHGs that have a circlular or uniform call distribution hunt type specified by the MLHG FEATURE and defined on the MLHGFD form (5604 Record).

Call Waiting Lamps may be associated with this feature to give a visual indication at the customer premise of the MLHG that at least one queued call has been waiting on queue for the specified threshold.

If the MLHG which is assigned a queuing feature is also assigned an OVERFLOW PEG COUNT REG, the message register will peg when calls terminating to the group are given busy treatment because the queue was full.

1.2 Trunk Group and SFG Queuing Features

For 5E3 and later, in addition to queuing for MLHGs, Modular Queuing may be defined to provide queuing for outgoing private facilities, either a physical trunk group or an SFG (Simulated Facility Group). Queuing may be either Off-Hook or Ringback.

Off-Hook Queuing provides that when queuing is invoked, the originating port must remain off-hook while waiting for the queued-for facility.

Ringback Queuing provides that when the busy facility may be queued for, the originator of the call will be given a confirmation tone indicating that if the customer hangs up within 6 seconds, the call will be put on queue. If the originator remains off-hook longer than 6 seconds, the call will not be queued. If the originator has invoked queuing by going on-hook, when the queued-for facility becomes available, the originating station is rung with a distinctive pattern and upon answer, the original call is completed. Only non-priority lines may use Ringback Queuing.

Dial codes may be provided in association with Ringback Queuing so that the originator may verify that the call has been queued or, if the call has been queued, to cancel queuing. These codes, specified with an ACTION of "RBQVFY" or "RBQCAN", respectively, may be defined on either the IDPDCA form (5601-1/2 Records) or on the PDIT form (5300-2 Record).

The queue may be divided into two sections, routine and priority, each with its own delay treatment and size. The priority section, if provided, must be off-hook while the routine section may be either off-hook or ringback.

Queuing for outgoing private facilities is associated with either PFA (Private Facility Access) or ARS (Automatic Route Selection) BRCS feature capabilities.

When queuing is desired for a facility associated with PFA, the PFAGPA form (5609-5 Record) must be specified with QUEUE REQUEST equal to "Y". The facility designated by the ROUTE INDEX and ROUTE TYPE must have a Modular Queuing Feature assigned. If the facility is a trunk group, the feature is assigned on the TKGRP form (5202 Record) as QUEUE FEATURE. If the facility is an SFG, the feature is assigned on the PFASFG form (5609-3 Record) also as QUEUE FEATURE. Queuing will then be invoked if the facility is busy and the port which originated the PFA call has QUEUE ALLOWED equal to "Y" as its PFA parameter. Another PFA parameter, PRIORITY QUEUE, specifies whether the call should be placed in the routine section of the queue when equal to "N", or in the priority section when equal to "Y".

When queuing is desired for ARS, the facility specified for a first route in an ARS route list must have a Modular Queuing feature assigned. If the facility is a trunk group, the feature is assigned on the TKGRP form (5202 Record) as QUEUE FEATURE. If the facility is an SFG, the feature is assigned on the PFASFG form (5609-3 Record) also as QUEUE FEATURE. To enable ARS queuing, the port which originated the ARS call must have its ARS parameter, QUEUE ALLOWED, equal to "Y" and PRIORITY QUEUE is "Y" or "N". Queuing for the facility of the first route will then be invoked if all the routes in the route list are busy or if the call has failed to route because of insufficient FRL (Facility Restriction Level). Queuing caused by insufficient FRL will take place after a possible FRL upgrade through an Authorization Code feature if provided. When an ARS call has been queued for the first route and an idle port in the facility is not available before timeout (see ROU Q TIMEOUT and PRI Q TIMEOUT), a second attempt through the route list will be made if the Modular Queuing parameter of POST Q TREAT equals "ALTR". The originating ARS port may have its FRL upgraded for this second attempt through the route list if the port has an FRL equal to or greater than the value specified as THRESH FRL on the associated ARSGPA form (5608-2 Record). The port FRL will then be changed to the POST QUEUE FRL also specified on the ARSGPA form.

1.3 Switching (Queuing) Modules

Switching Modules (SMs) provide the queuing mechanism or place for the calls to queue while waiting for an idle port in the queued for group. The SM that holds the queue is specified by QUEUE MODULE.

All announcements that are used for the queuing feature must be located on the Queue Module. That is, the announcement trunks must have an equipment number specified on the TRUNK form (5204 Record) which have the Switching Module equal to the associated Queue Module.

Each Queue Module has a maximum of 255 queue slots to hold calls for queuing. Therefore, the sum of BASIC SIZE plus EXTENDED SIZE (for MLHGs) and ROUTINE SIZE plus PRIORITY SIZE (for trunk groups and SFGs) of all queuing specified with the same QUEUE MODULE must not exceed 255.

A maximum of 100 MLHG queues may be assigned to the same Queue Module. A maximum of 100 TGN and/or SFG queues may be assigned to the same Queue Module. A maximum of 500 queues may be defined in any office.

1.4 ISAT MLHG Queuing Features

ISAT (ISDN Attendant) console Multi-Line Hunt Groups, with modular queuing, use ICIs (Incoming Call Identifiers) and priorities associated with each ICI, defined on the ICIPF form (5903 Record), to queue calls. Calls to a busy attendant in an ISAT group will be placed in a queue. When an attendant becomes idle that serves the particular ICI of the queued call, the call will be removed from the queue and placed to the idle attendant. Priorities, assigned on the ICIPF form, will be used to determine the order in which queued calls are served. For more information, see the "ISDN Attendant Features" section in Division 2, Section 1T.

ISDN Attendant consoles also make use of call waiting lamps. The call waiting lamps on the ISAT console operate based on the number of calls in the queue. The Calls Waiting lamp will light whenever one or more calls are queued. The Calls Waiting Warning lamp will light based on a specified threshold of calls queued. Two fields have been added to accommodate these types of call waiting lamps; they are, LAMP TYPE and THRESHOLD TYPE. The lamp type entry for ISDN Attendant consoles is "FB" (for feature button) and the threshold type is "N" (for number of calls in queue). The calls waiting threshold value is specified as a default parameter in the first row of the CALL WAITING LAMPS fields, in the field titled THRESHOLD. The DPN field is left blank for feature button applications.

The CFGGRP form (5964 Record) is used to assign modular queuing actions to feature buttons for ISDN Attendant consoles. Actions "QCWT" (Calls Waiting) and "QCWW" (Calls Waiting Warning) are used to assign the call waiting lamps to the ISDN Attendant configuration group(s). Action "QCUSE" may also be used in conjunction with an appropriate display feature. The feature button assigned the "QCUSE" action will be used to display the number of calls waiting in queue for each ICI.

1.5 ISDN Non-Attendant Queuing Features

ISDN station sets, other than attendant consoles, also make use of modular queuing, but threshold values are based on time in queue, not number of calls in queue. The LAMP TYPE for these sets would also be "FB" and THRESHOLD TYPE would be "T" (for time in queue). The threshold entry for these call waiting lamps represents a timing value (in seconds). Actions associated with the modular queuing feature buttons on these sets are, "QCW1L" (first threshold), "QCW2L" (second threshold), "QCW3L" (third threshold) and "QCUSE", if desired.

1.6 Recent Change View

The corresponding Recent Change View for this form is 12.40.

2. FORM ENTRIES - 5617-1a RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: Enter the Modular Queuing Feature Name. Feature Names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed or inserted.

Modular Queuing Features associated with Multi-Line Hunt Groups are assigned on the MLHG form (5110 Record). For 5E3 and later, Modular Queuing Features may also be associated with a Trunk Group or a Simulated Facility Group and are assigned, respectively, on the TKGRP form (5202 Record) or the PFASFG form (5609-3 Record).
Valid Entries: 1 - 8 characters

Data Rules:

Modular Queuing Feature names defined on the QUFD form are not assigned to individual ports (TNs, MLHG Terminals, or Trunk Group Members) on the Feature assignment forms. Therefore, these features may not be assigned on any of the following forms: CLUSTR, LINEFA, MLHLNFA, TKGRPFA or TRUNKFA.

If a feature name is defined on the QUFD form and is assigned as a Queuing Feature on the MLHG form, but no corresponding feature name is defined on the QUGPA form, either the BASIC SIZE or EXTENDED SIZE values must be defined on the QUFD form.

When FEATURE is "/QRERTE", QUEUE TYPE must be "REROUTE".

When FEATURE is "/QRERTE", ROU Q TIMEOUT must be 2.

When QUEUE FEATURE is known on the TKGRP form and the QUEUE TYPE is set to "REROUTE" on the corresponding QUFD form, the Reroute Queuing feature must be purchased by the office. A SFSYS form must exist with SFID 249 ACT set to "Y".

For 5E13 and later, when FEATURE is "/HPCQ30":

- QUEUE TYPE must be "HPCOHQ".
- SPECIAL DELAY TREATMENT must be "Y".
- PRIORITY DELAY TREATMENT must be"N".
- ROUTINE SIZE must be 5.
- ROU Q TIMEOUT must be 30.
- PRE DELAY TONES must be "IDLE".
- INTER DELAY TONES must be "IDLE".
- POST DELAY TONES must be "IDLE".

For 5E13 and later, when FEATURE is "/HPCQ15":

- QUEUE TYPE must be "HPCOHQ".
- SPECIAL DELAY TREATMENT must be "N".
- PRIORITY DELAY TREATMENT must be "N".
- ROUTINE SIZE must be 5.
- ROU Q TIMEOUT must be 15.

For 5E13 and later, when the FEATURE NAME on the QUGPA form equals a FEATURE NAME on the QUFD form where QUEUE TYPE is "HPCOHQ", the GROUP TYPE must be "TRK" and the SERV PROT TIME must be 0 on the corresponding QUGPA form. In addition, when FEATURE NAME is "/HPCQ15" and the QUEUE TYPE is "HPCOHQ" on the QUFD form, the ROUTINE SIZE must be 5 and the ROU Q TIMEOUT must be 15 on the corresponding QUGPA form. When FEATURE NAME is "/HPCQ30" and the QUEUE TYPE is "HPCOHQ" on the QUFD form, the ROUTINE SIZE must be 5 and the ROU Q TIMEOUT must be 30 on the corresponding QUGPA form.

2.3 REMARKS

Description: Enter a descriptive comment.

Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.12) define modular queuing feature options.

2.4 # GROUP TYPE

Description: Enter the type of group to which queuing will be applied.

Required Field.

Valid GROUP TYPE Entries

Entry	Definition
LINE	Software Release: 5E2 and later. Multi-Line Hunt Groups.
TRK	Software Release: 5E3 and later. Trunk Groups.
SFG	Software Release: 5E3 and later. Simulated Facility Groups.

Data Rules:

For 5E3 and later, if the GROUP TYPE is "LINE", then QUEUE TYPE must be "MLHG" (or for 5E6 and later, it may also be "CSD"), PRIORITY QUEUE and PRIORITY DELAY TREATMENT must be "N", and the following fields must be blank: SERV PROT TIME, ROUTINE SIZE, ROU Q TIMEOUT, PRIORITY SIZE, PRI Q TIMEOUT, NUMBER OF PRI ANNOUNCEMENTS, RINGBACK TYPE, RINGBACK INTERVAL, RETRY TIMEOUT and POST Q TREAT.

If the GROUP TYPE is "TRK" or "SFG", QUEUE TYPE must be "OFFHK", "RGBK", "BLV" or "DSU", and the following fields must be blank: BASIC SIZE (for 5E6 and later, BASIC SIZE may be 1), EXTENDED SIZE, and NUM OF CALL WAITING LAMPS.

For 5E13 and later, when GROUP TYPE is "TRK", QUEUE TYPE must be "BLV", "DSU", "HPCOHQ", "OFFH", "REROUTE", or "RGBK".

2.5 # QUEUE TYPE

Description: Enter the Queue Type.

When QUEUE TYPE is "BLV" or "DSU", the following fields will be set automatically to "N": SPECIAL DELAY TREATMENT, PRIORITY QUEUE, and PRIORITY DELAY TREATMENT.

Required Field.

Valid QUEUE TYPE Entries

Entry	Definition
BLV	Software Release: 5E4(2) and later. Busy Line Verify.
CSD	Software Release: 5E6 and later. Circuit-Switched Data call.
DSU	Software Release: 5E4(2) and later. Digital Services Unit 2 - Recorded Announcement Function.
MLHG	Multi-Line Hunt Group.
OFFHK	Off-Hook.
RGBK	Ringback.
REROUTE	Software Release: 5E12 and later.

	Reroute Queuing - The LDP switch searches all outgoing routes within the route search limit for an available route.
HPCOHQ	Software Release: 5E13 and later. GETS HPC (Government Emergency Telecommunications Service High Probability of Completion) off-hook queuing. For more information, see Division 2, Section 4A279.

Data Rules:

When QUEUE TYPE is "CSD", GROUP TYPE must be "LINE".

If GROUP TYPE is "TRK" or "SFG", this field must be "OFFHK", "RGBK", "BLV" or "DSU", to describe whether the call originator must remain off-hook while the call is queued or whether the originator must go on-hook to invoke queuing and will subsequently be rung back when ready to dequeue. These entries apply only to the routine section of a queue. If a priority section is defined for the queue, it is always off-hook and does not have a field to define the type of queue. Note that if a priority section is not defined for the queue, the entire queue is considered routine. Also, a priority section may not exist without a routine section.

CSD:
When "CSD" is entered, EXTENDED SIZE must be blank, SPECIAL DELAY TREATMENT must be "N", and GROUP TYPE must be "LINE".

RGBK:
When "RGBK" is entered, SPECIAL DELAY TREATMENT must be "N" and the associated trunk group must be one-way outgoing. "error: QUEUING (62)"

QUEUE TYPE must equal "RGBK" if the QUEUING FEATURE(s) has been assigned through TKGRP or PFASFG form(s) and the corresponding QUEUING FEATURE(s) is defined with RETRY TIMEOUT greater than zero on the QUGPA form.

REROUTE:
When QUEUE TYPE is "REROUTE", GROUP TYPE must be "TRK"

When QUEUE TYPE is "REROUTE", PRIORITY QUEUE must be "N".

When QUEUE TYPE is "REROUTE", SPECIAL DELAY TREATMENT must be "N".

When QUEUE TYPE is "REROUTE", PRIORITY DELAY TREATMENT must be "N".

When QUEUE TYPE is "REROUTE", ROUTINE SIZE must be 1 - 10.

When QUEUE TYPE is "REROUTE", ROU Q TIMEOUT must be 1 - 15.

HPCOHQ:
When QUEUE TYPE is "HPCOHQ",

- GROUP TYPE must be "TRK"
- PRIORITY QUEUE must be "N"
- THRESHOLD VALUE must not be entered

When QUEUE TYPE is "HPCOHQ" on the QUFD form, and the QUEUE FEATURE is known on the TKGRP form, the TRKCLS must be "IC", "LATA", "LTOLLCON", or "TTOLLCON", the LN TYPE must be "NONE" or unknown on the corresponding TKGRP form where QUEUE FEATURE matches FEATURE NAME on the

QUFD form. In addition, the TERM MC ROUTE INDEX and CCS TERM MC RTI must not be entered on the associated PFATG form. This Trunk Group cannot be assigned a Terminal Group ID.

2.6 QUEUE INTERFLOW

Description: Is Queue Interflow allowed? Queue Interflow provides for one queue requesting help from another queue and giving help to another queue.

> ***NOTE:*** The default and only value is "N", except for Modular Queuing features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Valid Entry: N

2.7 CALL WAITING LAMPS

Description: Are Call Waiting Lamps allowed?

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

Data Rules:

Call Waiting Lamps are applicable only when GROUP TYPE is "LINE". If GROUP TYPE is "SFG" or "TRK", CALL WAITING LAMP must be "N".

If this field is "N", the NUMBER OF CALL WAITING LAMPS, LAMP TYPE, and THRESHOLD TYPE fields must be blank. If this field is "Y", values must be entered in LAMP TYPE and THRESHOLD TYPE.

For 5E6 and later, this field must be "N" when QUEUE TYPE is "CSD". Also, for 5E6 and later, when an MLHG form has assigned a HUNT TYPE of "ISAT" on a corresponding MLHGFD form and CALL WAITING LAMPS is set to "Y", then LAMP TYPE must be "FB" and THRESHOLD TYPE must be "N" on the QUFD form.

2.8 # SPECIAL DELAY TREATMENT

Description: Is Special Delay Treatment allowed?

Standard audible ringing is applied to the call originator

- when QUEUE TYPE is "MLHG" and this field equals "N",
- or when QUEUE TYPE is "MLHG" or "OFFHK" and no announcements are associated with the queue when this field equals "Y".

Silence (i.e. no treatment) is given to the call originator, when QUEUE TYPE is "OFFHK" and this field equals "N".

Required Field.
Valid Entries: Y, N

Data Rules:

When QUEUE TYPE equals "RGBK", SPECIAL DELAY TREATMENT is not applicable and must equal "N".

When SPECIAL DELAY TREATMENT is "Y", announcements may be associated with the queue and may be defined as parameters on this form or on the QUGPA form (5617-3/4 Records). If the QUEUE TYPE is "OFFHK", the announcements are applicable to the routine section of the queue.

If SPECIAL DELAY TREATMENT is "N", then the NUMBER OF ANNOUNCEMENTS must be blank.

When QUEUE TYPE is "CSD", SPECIAL DELAY TREATMENT must be "N".

2.9 PRIORITY QUEUE

Description: Does this queue have a priority section?

If this field equals "Y", terminals that access this queue and are defined as priority originators will use the priority section of the queue which, on the average, experience a shorter delay time in the queue than non-priority originators using the routine section of the queue. To define an originator as priority, the parameter, PRIORITY QUEUE, should be defined as "Y" on the associated ARS (Automatic Route Selection) or PFA (Private Facility Access) forms. Attendant lines and trunks are usually considered candidates for priority queuing when it is defined.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When GROUP TYPE is "LINE", this field must equal "N".

PRIORITY QUEUE must equal "N" if QUEUING FEATURE(s) that have been assigned through TKGRP or PFASFG form(s) and corresponding QUEUING FEATURE(s) are defined with SERV PROT TIME equals zero or is not entered on the QUGPA or on the QUFD form.

If the SERV PROT TIME is greater than zero, then PRIORITY QUEUE must equal "Y" .

2.10 PRIORITY DELAY TREATMENT

Description: Can announcements be defined for the priority section of the queue?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PRIORITY QUEUE equals "N", this field must equal "N".

2.11 LAMP TYPE

Description: Enter the type of call waiting lamp(s) associated with this feature.

Software Release: 5E4(2) and later

Valid Entries:

Valid LAMP TYPE Entries

Entry	Definition
FB	Used with ISDN station sets to indicate that the call waiting lamp is provided via a feature button on the set. An appropriate action must be assigned on the CFGGRP form associated with lines using this lamp type. The CALL WAITING LAMPS DPN field must be left blank for feature button applications.
DP	Used to indicate that the call waiting lamps associated with this feature are provided via a distribute point.

Data Rules:

For 5E6 and later, when a QFEATURE is assigned on an MLHG form (5110 Record) and is defined on the QUFD form with a LAMP TYPE of "DP", the first DPN for CALL WAITING LAMPS on the QUFD form must be entered.

2.12 THRESHOLD TYPE

Description: Enter the type of threshold value for the call waiting lamps associated with this feature. An entry in this field will determine whether the CALL WAITING LAMPS THRESHOLD field represents a timing value or a number of calls in queue.

Software Release: 5E4(2) and later
Valid Entries:

Valid THRESHOLD TYPE Entries

Entry	Definition
N	Call waiting lamps will operate based on a threshold of the number of calls queued.
T	Call waiting lamps will operate based on a threshold of the amount of time calls are queued.

Data Rules:

For 5E5 and later, when THRESHOLD TYPE is "N", only one call waiting lamp may be defined; no more than one THRESHOLD may be entered.

CHARGES

The following fields (Section 2.13 - Section 2.16) define charges associated with the queuing feature.

2.13 USAGE SENSITIVE

Description: Is there a usage sensitive charge? This field is used for billing purposes.

✑ ***NOTE:*** The default and only value is "N", except for Modular Queuing features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Valid Entry: N

2.14 DEACTIVATION

Description: Is there a usage charge for deactivation?

✑ ***NOTE:*** The default and only value is "N", except for Modular Queuing features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Valid Entry: N

2.15 USAGE FREQUENCY

Description: Is there a usage charge for usage frequency?

NOTE: The default and only value is "N", except for Modular Queuing features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Valid Entry: N

2.16 DURATION

Description: Is there a usage charge for duration of use?

NOTE: The default and only value is "N", except for Modular Queuing features derived from the preconstructed features using the ODA change-insert mode of the review operation.

Valid Entry: "N"

DEFAULT PARAMETERS

The following fields (Section 2.17 - Section 4.14) define the default parameters assigned with the feature to the Multi-Line Hunt Group, Trunk Group or Simulated Facility Group. These parameters will be assigned to the group unless they are overridden by entries on the QUGPA form (5617-3/4 Record).

If a QUGPA parameter assignment form is entered for any given group, all entries on that form will be used for the group. None of the default parameters entered here on the QUFD form will be used.

2.17 BASIC SIZE

Description: Enter the Basic Size of the queue when the queue is defined for a group type of "LINE".

BASIC SIZE plus EXTENDED SIZE is the total size or number of queue slots made available to queue calls simultaneously for this MLHG queue. For instance, if BASIC SIZE is 10 and EXTENDED SIZE is left blank, 10 calls may be queued while waiting for an idle MLHG terminal. If the queue is full with 10 queued calls, an attempt to queue the eleventh call will overflow the queue and the originator is given busy tone.
Default: 1
Valid Entries: 1 - 255

Data Rules:

For a group type of "SFG" or "TRK", this field must be blank.

2.18 EXTENDED SIZE

Description: Enter the extended size of the queue when the queue is defined for a group type of "LINE".
Valid Entries: 1 - 255

Data Rules:

EXTENDED SIZE is specified only when the incoming side of any FX trunk group is defined with the listed directory number of the queued-for MLHG in DIR CON DN on the TKGRP form (5202 Record). In this case, the EXTENDED SIZE is defined as the size of the trunk group(s), so that an incoming seizure on any of these trunks and subsequent completion to the MLHG direct connect telephone number ensures that the trunk call will be queued.

EXTENDED SIZE must be blank when GROUP TYPE is "SFG" or "TRK", or QUEUE TYPE is "CSD".

2.19 QUEUE MODULE

Description: Enter the Queue Module to indicate which switching module in this office will be designated to hold and service the queue being defined.
Valid Entries: 1 - 192

Data Rules:

The value entered must be defined as a valid switching module on the EQIM form (5700-1/2 Records).

If QUEUE MODULES are defined with a TGN and MEMB combination on one or more of Delay, Flexible First or Priority Announcements, then for each TGN and MEMB combination a matching TRUNK form should be defined with the corresponding first three digits of the TEN or DEN equal to QUEUE MODULE.

2.20 QMON THRESHOLD

Description: Depending on whether the number of calls in the queue is greater or less than the threshold warning value, the QTWL (Queue Threshold Warning Lamp) on the console monitoring of this MLHG is turned on or off. The QTWL does not indicate how long the calls have been queued. A lit threshold warning lamp simply indicates that the number of calls in the queue has exceeded the threshold value.

The QTWLs provided by the CSD (Circuit-Switched Data) feature and existing call waiting lamps are not related. Call waiting lamps are only provided for voice queues and not for CSD queues. Call waiting warning lamps are lit when the call is in the queue for some specified time. QTWLs are available for both CSD and voice queuing.

Software Release: 5E6 and later
Valid Entries: 1 - 255

Data Rules:

When this field is entered, either BASIC SIZE or EXTENDED SIZE must be entered. QMON THRESHOLD must not be greater than the sum of BASIC SIZE and EXTENDED SIZE.

EXTENDED SIZE must be blank when QUEUE TYPE is "CSD". The extended queue size reserves room in the queue for calls arriving over FX (foreign exchange) facilities. FX facilities do not support CSD calls.

2.21 NUMBER OF CALL WAITING LAMPS

Description: Enter the Number of Call Waiting Lamps allowed.
Valid Entries: 1 - 3

Data Rules:

This field may be entered only if the GROUP TYPE is "LINE". When GROUP TYPE is "TRK" or "SFG", this field must be blank.

If CALL WAITING LAMPS is "N", this field must be blank.

When a number is entered in this field, no more than that number of CALL WAITING LAMPS (THRESHOLD and DPN) may be defined.

For 5E4(2) and later, when "N" is entered in the THRESHOLD TYPE field, the NUMBER OF CALL WAITING LAMPS must be 1 or not entered.

CALL WAITING LAMPS

One, two or three lamps (fields Section 2.22 - Section 2.23) may be associated with each queue. One queue is identified for each MLHG. Up to three delay thresholds, in ascending order may be specified. Only one lamp will be lit, corresponding to the longest delay currently experienced.

For 5E5 and later, when "N" is entered in the THRESHOLD TYPE field, define one row or leave blank.

2.22 THRESHOLD

Description: Enter the Call Waiting Threshold.

For 5E4(2) and later, the threshold specified here may represent either an amount of time calls are in queue or a number of calls in queue. When the THRESHOLD TYPE field is set to "N", the threshold value entered here will represent the acceptable number of calls in queue before the ISDN Attendant's calls waiting warning lamp lights (the lamp will light when this threshold has been exceeded). When "T" is entered in the THRESHOLD TYPE field, the threshold value entered here will represent an amount of time (in 6-second intervals) calls are in queue.
Valid Entries: 1 - 255

Data Rules:

For 5E4(2) and later, when a THRESHOLD value is entered and LAMP TYPE is "DP", the corresponding DPN must be entered; if LAMP TYPE is "FB", the DPN may not be entered.

For 5E5 and later, when THRESHOLD TYPE is "N", THRESHOLD may be 1 - 255; when THRESHOLD TYPE is "T", THRESHOLD may be 1 - 31.

2.23 DPN

Description: For each Call Waiting Lamp Threshold specified, enter a unique DPN (Distribute Point Number) in the following format.

DISTRIBUTE POINT NUMBER

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

Data Rules:

In offices equipped with CM1 (Communication Module 1), valid entries for SM are 1-48. In offices equipped with CM2 (Communication Module 2), valid entries are 1-192.

A DPN may be entered only if the corresponding THRESHOLD has been entered.

Each DPN must be unique. It cannot be assigned on another form except that DPNs can be duplicated between QUFD and QUGPA forms when these forms have the same FEATURE and GROUP TYPE.

For 5E4(2) and later, when "FB" (feature button) is entered in the LAMP TYPE field, DPN must be blank.

3. FORM ENTRIES - 5617-1b RECORD

3.1 BASE AND CONTROL, ESS UNIT

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

3.2 FEATURE NAME

Description: Enter the Modular Queuing Feature Name. This name must be the same as that from the corresponding 5617-1 Record entry. This information is not required on the QUFD input form.

3.3 NUMBER OF ANNOUNCEMENTS

Description: Enter the Number of Announcements allowed (excluding the flexible first announcement).
Valid Entries: 1 - 4

Data Rules:

If this field is entered, then SPECIAL DELAY TREATMENT must be equal to "Y". The announcement or announcements to be used are defined in DELAY ANNOUNCEMENTS, one row for each announcement.

If this field is not entered, then the tone interval before the first announcement must not be specified in PRE DELAY TIMING or it must equal 0.

If this field is not entered or is equal to 1, then the tone interval between announcements must not be specified in INTER DELAY TIMING or it must equal 0.

3.4 PRE DELAY TONES

Description: Indicate the Tone emitted before the first announcement.
Default: AUD
Valid Entries:

Valid PRE DELAY TONES Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No tone

3.5 PRE DELAY TIMING

Description: Enter the Tone intervals before the first announcement, where each interval represents a 6-second duration.

If the DELAY ANNOUNCEMENTS TYPE is "BARGE", then the tone interval before the first announcement will be equal to the number of 6-second intervals indicated in this field.

If the DELAY ANNOUNCEMENTS TYPE is "NBARGE", then the tone interval before the first announcement will be equal to the number of 6-second intervals indicated in this field plus the amount of time it takes to cycle to the beginning of the announcement.

Default: 0
Valid Entries: 0 - 20 (6-second intervals)

3.6 INTER DELAY TONE

Description: Enter the Tone emitted between announcements.
Default: AUD
Valid Entries:

Valid INTER DELAY TONE Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No Tone
MUS	Music

3.7 INTER DELAY TIMING

Description: Enter the Tone intervals between announcements where each interval represents a 6-second duration.
Default: 0
Valid Entries: 0 - 20 (6-second intervals)

3.8 POST DELAY TONES

Description: Enter the Tone emitted after the announcement(s).
Default: AUD
Valid Entries:

Valid POST DELAY TONES Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No Tone
MUS	Music

MUSIC SOURCE

The following fields (Section 3.9 - Section 3.10), which are available for 5E6 and later software releases, are used to describe the music source for delay tones of "MUS".

3.9 TGN

Description: Enter the trunk group number of the trunk to be used as a music source for music delay tones.

Software Release: 5E6 and later
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

If TGN is entered, then music source MEMB must also be entered. A TGN can only be entered when GROUP TYPE is "LINE", QUEUE TYPE is "MLHG", and INTER or POST DELAY TONES is "MUS", and must be entered when INTER or POST delay tones equal "MUS". The TGN and MEMB must be defined on the TRUNK form (5204-1/2 Records) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE and MUSIC SOURCE is "Y" on the TRUNK form.

3.10 MEMB

Description: Enter the trunk group member number of the trunk to be used as a music source for music delay tones.

Software Release: 5E6 and later
Valid Entries: 0 - 1951

Data Rules:

If music source MEMB is entered, then music source TGN must also be entered.

ISDN ATTENDANT

The next two fields (Section 3.11 - Section 3.12) define warning lamps for the ISDN Attendant Group Overload Warning feature. For information on this feature refer to Division 2, Section 1T.

3.11 QWARN THRESHOLD

Description: Enter the threshold for the QWARN feature button lamp. When the number of calls in the queue exceeds the threshold value, the QWARN feature button lamps on the appropriate ISAT terminals are turned on. When the number of calls in the queue falls below the threshold value, the QWARN feature button lamps on the appropriate ISAT terminals are turned off.

The QWARN feature button lamp is defined on the CFGGRP form (5964 Record) using an ACTION of "QCWARN". Refer to Division 6, Section 7A, for more information on this ACTION value.

Software Release: 5E8 and later
Valid Entries: 1 - 251

Data Rules:

If QWARN THRESHOLD is entered, BASIC SIZE must be entered; the QWARN THRESHOLD value must be less than (BASIC SIZE - 3). The number 3 indicates the number of queue slots reserved from the basic portion of the queue for emergency calls. This value is hard-coded in the call processing code.

The QWARN THRESHOLD is applicable only to ISAT Multi-Line Hunt Groups. If QWARN THRESHOLD is entered, FEATURE NAME can be assigned in the QFEATURE field of an MLHG form only if HUNT TYPE is set to "ISAT" on the corresponding MLHGFD form.

If QWARN THRESHOLD is entered, CALL WAITING LAMP must be "Y", GROUP TYPE must be "LINE", and QUEUE TYPE must be "MLHG".

3.12 QBUSY DPN

Description: Enter a unique ISAT Queue Busy DPN (Distribute Point Number). When QBUSY DPN is entered, if the queue is full, the distribution point will cause a lamp to be lit. This lamp is not the same as the QBUSY feature button lamp on the ISAT terminal.

Software Release: 5E8 and later
Valid Entries: a 9-digit Distribute Point equipment number in the following format.

DISTRIBUTE POINT NUMBER

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

Data Rules:

If QBUSY DPN is entered, CALL WAITING LAMP must be "Y", GROUP TYPE must be "LINE", and QUEUE TYPE must be "MLHG".

If QBUSY DPN is entered, it must be unique, i.e., it cannot be assigned on any other form.

If QBUSY DPN is entered, it must be a distribution point defined on the EQMSP or EQMMSP form with TYPE set to "DIST".

The QBUSY DPN is applicable only to ISAT Multi-Line Hunt Groups. If QBUSY DPN is entered, FEATURE NAME can be assigned in the QFEATURE field of an MLHG form only if HUNT TYPE is set to "ISAT" on the corresponding MLHGFD form.

DELAY ANNOUNCEMENTS

Delay Announcements (fields Section 3.13 - Section 3.16) are assigned on a per queue basis. Delay Announcements can be shared by several queues.

Each row under DELAY ANNOUNCEMENTS defines the announcement trunk to be used. The quantity of announcements (rows) specified must not exceed the value entered in NUMBER OF ANNOUNCEMENTS. When any field in a row is specified, all of the fields in the row must be entered.

3.13 TYPE

Description: Enter the Announcement Type.

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In.
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

3.14 CYCLES

Description: Enter the number of times the announcement is to be given.
Valid Entries: 0 - 4

3.15 TGN

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

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

3.16 MEMB

Description: Enter the Trunk Member of the Announcement Trunk Group.
Valid Entries: 0 - 2047.

Data Rules:

This member must be defined on the TRUNK form (5204 Record) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

FLEXIBLE FIRST ANNOUNCEMENT

The Flexible First Announcement (fields Section 3.17 - Section 3.21) may be specified to provide an alternate announcement to the first announcement defined in DELAY ANNOUNCEMENTS. If specified, the Flexible First Announcement is used for the next call into the queue when the longest call already queued has been waiting in the queue for the amount of time as specified by THRESHOLD VALUE. If any field under Flexible First Announcement is entered, they all must be entered.

3.17 TYPE

Description: Enter the Announcement Type of the Flexible First Announcement.

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In.
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

3.18 CYCLES

Description: Enter the number of times the Flexible First Announcement is to be given.
Valid Entries: 0 - 4

3.19 TGN

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

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

3.20 MEMB

Description: Enter the Trunk Member of the Flexible First Announcement Trunk Group.
Valid Entries: 0 - 1951

Data Rules:

This member must be defined on the TRUNK form (5204 Record) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

3.21 THRESHOLD VALUE

Description: Enter the Threshold Value associated with the Flexible First Announcement. When the longest queued call has waited this value, the next call into the queue will hear the Flexible First Announcement.
Valid Entries: 1 - 200 (6-second intervals)

DEFAULT PARAMETERS FOR TGN/SFG

The following fields (Section 3.22 - Section 4.14) define parameters for queuing features associated with trunk groups and simulated facility groups.

3.22 SERV PROT TIME

Description: Enter the Service Protection Time in seconds.

This field is called SERV PROT CLK on the Recent Change View and in the 5ESS Switch feature documents.

It is used when a queue has both a routine section and a priority section. It provides a means of ensuring that routine calls are not completely blocked from being serviced because of priority calls. Service Protection applies to both off-hook and ringback queuing. The expiration of the Service Protection Time does not cause routine calls to be dequeued immediately. Rather, this will cause the appropriate indicators to be set so that the next available port in the queued for facility will be used for the call waiting at the head of the routine queue section instead of a priority call. 0 indicates no timing or Service Protection.

Software Release: 5E3 and later
Valid Entries: 0 - 2047 (seconds)

Data Rules:

If GROUP TYPE equals "LINE", this field must be left blank.

If a non-zero value is entered in this field, then PRIORITY QUEUE must be equal to "Y".

3.23 ROUTINE SIZE

Description: Enter the size of the routine section of the queue when the queue is defined for a group type of "TRK" or "SFG". ROUTINE SIZE indicates the number of queue slots made available to queue routine calls simultaneously for the queued-for trunk group or Simulated Facility Group. The routine section of a queue may be either Ringback or Off-Hook.

Software Release: 5E3 and later
Valid Entries: 1 - 255

Data Rules:

For a group type of "LINE", this field must be blank.

For 5E6 and later, when both PRIORITY SIZE and ROUTINE SIZE are entered, their sum must not exceed 255.

3.24 ROU Q TIMEOUT

Description: Enter the Routine Queue Timeout in seconds. 0 indicates no timeout.

This field indicates the maximum time that a routine call can remain in the queue. If a Private Facility Access call has been dequeued because of this timeout and the queue is off-hook, the originator will be given reorder tone. An Automatic Route Selection call on timeout is subject to POST Q TREAT which will indicate either Reorder or Alternate Treatment.

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 4095 (seconds)

Data Rules:

If group type is "LINE", this field must be blank.

If QUEUE TYPE is "RGBK", this field, if entered, must be less than or equal to 1770.

4. FORM ENTRIES - 5617-1c RECORD

4.1 BASE AND CONTROL, ESS UNIT

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

4.2 PRIORITY SIZE

Description: Enter the Size of the priority section of the queue. 0 indicates no priority queuing.

Priority Size indicates the number of queue slots made available to queue priority calls simultaneously for the queued-for Trunk Group or Simulated Facility Group. If a Priority Section is provided, it will be off-hook.

Software Release: 5E3 and later
Valid Entries: 0 - 255

Data Rules:

If PRIORITY QUEUE equals "Y" and this field is entered, it must be greater than zero. If PRIORITY QUEUE is "N", this field must be 0 or blank.

For 5E6 and later, when both PRIORITY SIZE and ROUTINE SIZE are entered, their sum must not exceed 255.

4.3 PRI Q TIMEOUT

Description: Enter the Priority Queue Timeout in seconds. 0 indicates no timeout.

This field indicates the maximum time that a priority call can remain in the queue. If a Private Facility Access call has been dequeued because of this timeout, the originator will be given Reorder tone. An Automatic Route Selection call on timeout is subject to POST Q TREAT which will indicate either reorder ("REORDER") or alternate treatment ("ALTR").

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 4095 (seconds)

Data Rules:

If group type is "LINE", this field must be blank.

4.4 NUMBER OF PRI ANNCMTS

Description: Enter the Number of Priority Announcements allowed for the priority section of the queue.

Software Release: 5E3 and later
Valid Entries: 0 - 3

Data Rules:

If this field is nonzero, then PRIORITY DELAY TREATMENT must equal "Y". The announcement or announcements to be used are defined in PRIORITY ANNOUNCEMENTS, one row for each announcement.

PRIORITY ANNOUNCEMENTS

Priority Announcements (fields Section 4.5 - Section 4.8) are applicable to 5E3 and later Software Releases and are assigned on a per-queue basis for those queues that have priority sections. These announcements do not have to be unique and may be shared with other queues. Each row under PRIORITY ANNOUNCEMENTS defines the announcement trunk to be used. The quantity of announcements (rows) specified must not exceed the value entered in NUMBER OF PRI ANNCMTS. When any field in a row is specified, all of the fields in the row must be entered.

4.5 TYPE

Description: Enter the Announcement Type of the Priority Announcement.

Software Release: 5E3 and later
Valid Entries:

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In.
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

4.6 CYCLES

Description: Enter the number of times the Priority Announcement is to be given.

Software Release: 5E3 and later
Valid Entries: 0 - 4

4.7 TGN

Description: Enter the Trunk Group Number of the Priority Announcement.

Software Release: 5E3 and later

Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

4.8 MEMB

Description: Enter the Trunk Member of the Priority Announcement Trunk Group.

Software Release: 5E3 and later
Valid Entries: 0 - 1951.

Data Rules:

This member must be defined on the TRUNK form (5204 Record) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

4.9 RINGBACK TYPE

Description: Enter the distinctive ringing pattern to be used to ringback customers in a Ringback Queue. The pattern, when entered, is independent of the Distinctive Ringing BRCS feature capability and, thus, does not require the queuing customer to have a Distinctive Ringing feature assigned.

Software Release: 5E3 and later
Valid Entries:

Valid RINGBACK TYPE Entries

Entry	Definition
A	2 seconds on, 4 seconds off (normal ringing).
B	800 ms on, 400 ms off, 800 ms on, 4 seconds off.
C	400 ms on, 200 ms off, 400 ms on, 200 ms off, 800 ms on, 4 seconds off.
D	1 second on, 1 second off, 1 second on, 3 seconds off.
P	Software Release: 5E4(2) and later. 1640 ms on, 360 ms off.

Data Rules:

This field may be entered only when the QUEUE TYPE is "RGBK".

4.10 RINGBACK INTRVL

Description: Enter the time limit in seconds for ringing back customers in a Ringback Queue. This field, when entered, indicates how long to apply ringing to the customer's telephone when that customer is in a Ringback Queue and can be dequeued or serviced with the queued-for facility. If the customer does not answer the telephone within the time limit, the call will be removed from the queue without being served.

Software Release: 5E3 and later
Valid Entries: 18, 24, 30, 36, 42, and 48 (seconds)

Data Rules:

This field may be entered only when the QUEUE TYPE is "RGBK".

4.11 RETRY TIMEOUT

Description: Enter the Retry Timeout in seconds for attempting to ringback customers in a Ringback Queue when they have gone back off-hook. This field, when entered, indicates how long to wait for a customer who is in a ringback queue if, while waiting for the queued-for facility, the customer answers or originates another call. With the customer's line busy, it cannot be rung-back. If the customer does not hang up within the time specified, the call will be removed from the queue without being served. 0 indicates no timeout.

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 1023 (seconds)

Data Rules:

This field may be entered only when the QUEUE TYPE is "RGBK".

4.12 POST Q TREAT

Description: Enter the Post Queue Treatment to be given ARS (Automatic Route Selection) calls that have timed out of the queue. A call in the routine section of the queue will time out based on the value entered in ROU Q TIMEOUT. A call in the priority section of the queue will time out based on the value entered in PRI Q TIMEOUT.

When "ALTR" is entered and the call that has been queued was invoked through ARS, then the queued-for facility is the first route in a route list. Alternate Treatment indicates that upon timeout, a second attempt should be made through the route list. The FRL (Facility Restriction Level) of the ARS originator may be upgraded for this second attempt through the entries POST QUEUE FRL and THRESH FRL of the originator's ARS Group Data on the ARSGPA form (5608-2 Record).

Software Release: 5E3 and later
Valid Entries:

Valid POST Q TREAT Entries

Entry	Definition
REORDER	Reorder Tone
ALTR	Alternate Treatment

Data Rules:

If group type is "LINE", this field must be blank.

4.13 SADA

Description: Should the Service After Delay Announcement feature be activated?

This feature allows the first announcement of a delay treatment be completely played before the call is made available to a hunt group. This field must be set to "Y" if the Service After Delay Announcement feature is active for any hunt group with queuing; otherwise, enter "N".

Software Release: 5E5 and later
Required Field.
Default: N

Valid Entries: Y, N

Data Rules:

If SADA is "Y", GROUP TYPE must be "LINE". If GROUP TYPE is not "LINE", or the NUMBER OF ANNOUNCEMENTS field is blank, then SADA must be "N".

4.14 ANNC BILL

Description: Does billing occur at the time of announcement? This Announcement Billing indicator field is part of the Service After Delay Announcement feature.

Software Release: 5E5 and later
Required Field.
Default: Y

Value Entries: Y, N

Data Rules:

Enter "N" if billing occurs when the call is connected to a hunt group member. Also, enter "N" if the GROUP TYPE is "SFG" or "TRK".

ESS 5617-1a(8/98)TG-5 MODULAR QUEUING FEATURE DEFINITION RECORD DATE ___________
QUFD 5ESS SWITCH
12.40
BASE______CONT GR____ 5ESS UNIT ___________________

FEATURE NAME	REMARKS	FEATURE OPTIONS										CHARGES					DEFAULT PARAMETERS						
		GROUP TYPE	QUEUE TYPE	QUEUE INTERFL	CALL WAIT LAM	SPECIAL DELAY	PRIORITY QUEU	PRIORITY DELA	LAMP TYPE			THRESHOLD TYP	USAGE SENSITI	DEACTIVATION	USAGE FREQUEN	DURATION	BASIC SIZE	EXTENDED SIZE	QUEUE MODULE	QMON THRESHOL	NUM CALL WAIT	CW LAMPS	
																						THRES	DPN
																						ROW 1 ROW 2 ROW 3	ROW 1 ROW 2 ROW 3

					OW	PS	TREATMENT	E	YTREATMENT		E	VE		CY				D	LAMPS		
/QISATCW	QUEUING FOR ISAT MLHG WITH CWLS	LINE	MLHG	N	Y	N	N	N	FB	N	N	N	N	N							
/QISCWL	QUEUING FOR ISDN MLHG WITH CWLS	LINE	MLHG	N	Y	N	N	N	FB	T	N	N	N	N							
/QL	QUEUING FOR LINES	LINE	MLHG	N	N	N	N	N			N	N	N	N							
/QLCSD	QUEUING FOR CSD LINES	LINE	CSD	N	N	N	N	N			N	N	N	N							
/QLCWL	QUEUING FOR LINES WITH CWL	LINE	MLHG	N	Y	N	N	N	DP	T	N	N	N	N							
/QLCWLDA	QUEUING FOR LINES WITH CWL & DA	LINE	MLHG	N	Y	Y	N	N	DP	T	N	N	N	N							
/QLDA	QUEUING FOR LINES WITH DELAY ANN	LINE	MLHG	N	N	Y	N	N			N	N	N	N							
/QSOH	OFFHOOK QUEUING FOR SFG'S	SFG	OFFHK	N	N	N	N	N			N	N	N	N							
/QSOHP	OFHK Q FOR SFG'S W/PRIORITY	SFG	OFFHK	N	N	N	Y	N			N	N	N	N							
/QSOHPD	OFHK Q FOR SFG'S S/ PRI AND DA	SFG	OFFHK	N	N	Y	Y	Y			N	N	N	N							
/QSRB	RINGBACK QUEUING FOR SFG'S	SFG	RGBK	N	N	N	N	N			N	N	N	N							
/QSRBP	RGBK Q FOR SFG W/ PRIORITY	SFG	RGBK	N	N	N	Y	N			N	N	N	N							
/QTACCS	OSPS ACCS DSU2-RAF QUEUING	TRK	DSU	N	N	N	N	N			N	N	N	N							
/QTBLV	OSPS BLV TRUNK QUEUING	TRK	BLV	N	N	N	N	N			N	N	N	N							
/QTOH	OFFHOOK QUEUING FOR TRKS	TRK	OFFHK	N	N	N	N	N			N	N	N	N							
/QTOHP	OFHK Q TRKS WITH PRIORITY	TRK	OFFHK	N	N	N	Y	N			N	N	N	N							
/QTOHPD	OFHK Q FOR TRK'S W/ PRI AND DA	TRK	OFFHK	N	N	Y	Y	Y			N	N	N	N							
/QTRB	RINGBACK QUEUING FOR TRKS	TR	RGBK	N	N	N	N	N			N	N	N	N							

		K																			
/QTRBP	RGBK Q FOR TRKS WITH PRIORITY	TRK	RGBK	N	N	N	Y	N			N	N	N	N							
/QU*	MODULAR QUEUING - WILD CARD	TRK	RGBK	N	N	N	N	N			N	N	N	N							
/QRERTE	LDP REROUTE QUEUEING	TRK	REROUTE		N	N	N	N													
/HPCQ30	HPC OFFHK FOR CSV/CSD	TRK	HPCOHQ		N	Y	N	N													
/HPCQ15	HPC OFFHK FOR CSV/CSD	TRK	HPCOHQ		N	N	N	N													

Figure 1 PRECONSTRUCTED MODULAR QUEUING FEATURES 5E6 AND LATER SOFTWARE RELEASES

ESS 5617-1b(8/98)TG-5 MODULAR QUEUING FEATURE DEFINITION RECORD DATE ___________
QUFD 5ESS SWITCH
12.40
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	DEFAULT PARAMETERS																						
	NUM ANN	DELAY TONES	DELAY TIMING	MUSIC SOURCE		DELAY ANNC & FLEX ANNC					SERV PROT TIME	ROUTINE SIZE	RTOIUMEQOUT	PRIORITY SIZE	PRIQ TIMEOUT	NUMBER OF PRI ANNCMTS	PRIORITY ANNOUNCEMENTS				RINGBACK TYPE	RINGBACK INTRVL	RETRY TIMEOUT
		PRE INTER POST	PRE INTER X	TGN	MEMB	TYPE	CYC	TGN	MEM	THES							TYPE	CYC	TGN	MEM			
						ROW 1 ROW 2 ROW 3 ROW 4 ROW 5	ROW 1 ROW 2 ROW 3 ROW 4 ROW 5	ROW 1 ROW 2 ROW 3 ROW 4 ROW 5	ROW 1 ROW 2 ROW 3 ROW 4 ROW 5	X X X X ROW 5							ROW 1 ROW 2 ROW 3 X X	ROW 1 ROW 2 ROW 3 X X	ROW 1 ROW 2 ROW 3 X X	ROW 1 ROW 2 ROW 3 X X			
/QISATC		AUD	0							""													

W																							
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QISCWL		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QL		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QLCSD		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QLCWL		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QLCWLDA		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QLDA		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QSOH		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QSOHP		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QSOHPD		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QSRB		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QSRBP		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTACCS		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTBLV		AUD	0							""													

		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTOH		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTOHP		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTOHPD		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTRB		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QTRBP		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QU*		AUD	0							""													
		AUD	0							""													
		AUD	""							""													
		""	""							""							""	"	""	""			
		""	""														""	"	""	""			
/QRERTE														1	2								
/HPCQ30												5	30										
/HPCQ15												5	15										

Figure 2 PRECONSTRUCTED MODULAR QUEUING FEATURES 5E6 AND LATER SOFTWARE RELEASES

ESS 5617-1c(8/98)TG-5 MODULAR QUEUING FEATURE DEFINITION RECORD DATE ___________
QUFD 5ESS SWITCH
12.40
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	DEFAULT PARAMETERS			REMARKS
	POST Q TREAT	S A D A	A N N C B	

/QRERTE		N	Y	
/HPCQ30		N	Y	
/HPCQ15		N	Y	

Figure 3 PRECONSTRUCTED MODULAR QUEUING FEATURES 5E6 AND LATER SOFTWARE RELEASES

```
Screen 1 of 3                     5ESS Switch
qufd                          OFFICE DATA ADMINISTRATION
(5617-1a/b/c)             MODULAR QUEUING FEATURE DEFINITION

* 2. FEATURE NAME   ________        3. REMARKS ________________________________

  FEATURE OPTIONS:                    DEFAULT PARAMETERS:
# 4. GROUP TYPE                ____     17. BASIC SIZE                001
# 5. QUEUE TYPE                _____    18. EXTENDED SIZE             ___
  6. QUEUE INTERFLOW           N        19. QUEUE MODULE              ___
  7. CALL WAITING LAMPS        N        20. QMON THRESHOLD            ___
# 8. SPECIAL DELAY TREATMENT  _        21. NUM OF CALL WAITING LAMPS _
  9. PRIORITY QUEUE            N        22. CALL WAITING LAMPS
 10. PRIORITY DELAY TREATMENT N             THRESHOLD      DPN
 11. LAMP TYPE                 __        1      ___       _________
 12. THRESHOLD TYPE            _         2      ___       _________
CHARGES:                                 3      ___       _________
 13. USAGE SENSITIVE           N
 14. DEACTIVATION              N
 15. USAGE FREQUENCY           N
 16. DURATION                  N
```

```
Screen 2 of 3                     5ESS Switch
qufd                          OFFICE DATA ADMINISTRATION
(5617-1a/b/c)             MODULAR QUEUING FEATURE DEFINITION

 25. NUMBER OF ANNOUNCEMENTS    _          37. DELAY ANNOUNCEMENTS
                                           row   TYPE   CYCLES  TGN     MEMB
           DELAY TONES    DELAY TIMING      1   ______    _     ____    ____
 26. PRE        AUD            00           2   ______    _     ____    ____
 29. INTER      AUD            00           3   ______    _     ____    ____
 32. POST       AUD                         4   ______    _     ____    ____
    MUSIC SOURCE
 33. TGN ____                              FLEXIBLE FIRST ANNOUNCEMENT
 34. MEMB ____                             42. TYPE              ______
    ISDN ATTENDANT                         43. CYCLES            _
 35. QWARN THRESHOLD ___                   44. TGN               ____
```

```
 36. QBUSY DPN       _________              45. MEMB              ____
                                            46. THRESHOLD VALUE   ___
```

```
Screen 3 of 3                   5ESS Switch             _
qufd                     OFFICE DATA ADMINISTRATION
(5617-1a/b/c)        MODULAR QUEUING FEATURE DEFINITION

                        DEFAULT PARAMETERS FOR TGN/SFG

 47. SERV PROT TIME           _____         58. RINGBACK TYPE       _
 48. ROUTINE SIZE             ___           59. RINGBACK INTRVL     __
 49. ROU Q TIMEOUT            _____         60. RETRY TIMEOUT       _____

 50. PRIORITY SIZE            ___           61. POST Q TREAT        _______
 51. PRI Q TIMEOUT            _____         62. SADA                N
 52. NUMBER OF PRI ANNCMTS    _             63. ANNC BILL           Y

 53. PRIORITY ANNOUNCEMENTS
row       TYPE   CYCLES   TGN     MEMB
 1       ______    _     _____   _____
 2       ______    _     _____   _____
 3       ______    _     _____   _____
```

Figure 4 SAMPLE QUFD FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 18B: 5617-3/4 RECORD
MODULAR QUEUING GROUP PARAMETER FORM - QUGPA

1. GENERAL

The 5617-3/4 Records are available with 5E2 and later Software Releases. They define the Modular Queuing parameters for a group if the default parameters associated with the Modular Queuing feature on the QUFD form (5617-1 Record) are inappropriate or unspecified. This record need not be filled out if the Modular Queuing default parameters are acceptable.

For 5E3 and later, in addition to queuing for MLHGs, Modular Queuing may be defined to provide queuing for outgoing private facilities, either a physical Trunk Group or an SFG (Simulated Facility Group).

If a QUGPA parameter assignment form is entered for any given group, all entries on that form will be used for the group. None of the default parameters entered on the QUFD form will be used.

1.1 Recent Change View

The corresponding Recent Change View for this form is 3.40.

2. FORM ENTRIES - 5617-3 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 * GROUP NUMBER

Description: Enter the number of the group that the Modular Queuing feature is assigned to and that these parameters are associated with.
Valid Entries: Valid entries for GROUP NUMBER are dependent upon the software release and the value of GROUP TYPE. Refer to the following table for a breakdown:

Valid GROUP NUMBER Entries

GROUP TYPE	5E10	5E11	5E15
LINE	1 - 2000	1 - 2000	1 - 8191
TRK	1 - 2000	1 - 4000	0 - 4000
SFG	1 - 2000	1 - 2000	1 - 2000

Data Rules:

When GROUP TYPE is "LINE", the number entered is a Multi-Line Hunt Group that must be defined with the specified Modular Queuing feature on the MLHG form (5110 Record).

When GROUP TYPE is "TRK", the number entered is a Trunk Group that must be defined with the specified Modular Queuing feature on the TKGRP form (5202 Record).

When GROUP TYPE is "SFG", the number entered is a Simulated Facility Group that must be defined with the specified Modular Queuing feature on the PFASFG form (5609-3 Record).

For 5E15 and later:

When GROUP NUMBER does not equal 0,

OFC Q NUM TRK GRPS must be 0.

EGR Q NUM TRK GRPS must be 0.

OFC Q TIMEOUT must be 0.

EGR Q TIMEOUT must be 0.

OFC Q SIZE must be unknown.

EGR Q SIZE must be unknown.

When GROUP NUMBER equals 0,

GROUP TYPE must be "TRK".

ROUTINE SIZE must not be specified.

PRIORITY SIZE must not be specified.

ROU Q TIMEOUT must not be specified.

PRI Q TIMEOUT must not be specified.

When GROUP NUMBER equals 0, GROUP TYPE is "TRK", and OFC Q NUM TRK GRPS equals 0, then EGR Q NUM TRK GRPS must not be 0.

When GROUP NUMBER equals 0, GROUP TYPE is "TRK", and EGR Q NUM TRK GRPS equals 0, then OFC Q NUM TRK GRPS must not be 0.

When GROUP NUMBER equals 0 and GROUP TYPE is "TRK", then SERV PROT TIME must not be specified.

When GROUP NUMBER equals 0 and GROUP TYPE is "TRK", both OFC Q NUM TRK GRPS and EGR Q NUM TRK GRPS must not be 0.

When GROUP NUMBER equals 0 and OFC Q NUM TRK GRPS does not equal 0, both OFC Q TIMEOUT and OFC Q SIZE must not be 0.

When GROUP NUMBER equals 0 and EGR Q NUM TRK GRPS does not equal 0, both EGR Q TIMEOUT and EGR Q SIZE must not be 0.

2.3 * GROUP TYPE

Description: Enter the type of group to which queuing will be applied.

Valid GROUP TYPE Entries

Entry	Definition
LINE	Multi-Line Hunt Groups.
TRK	Software Release: 5E3 and later. Trunk Groups.
SFG	Software Release: 5E3 and later. Simulated Facility Groups.

Data Rules:

For 5E11 through 5E14, when GROUP TYPE is "LINE" or "SFG", GROUP NUMBER must be 1 - 2000. For 5E15 and later, when GROUP TYPE is "LINE", GROUP NUMBER must be 1 - 8191; when GROUP TYPE is "SFG", GROUP NUMER must be 1 - 2000.

When the value entered in the GROUP TYPE field is "LINE", then the value entered in the GROUP NUMBER field must appear in the MLHG field on an MLHG form. Additionally, the entry in the FEATURE NAME field on this form must appear in the QUEUING FEATURE field on the MLHG form.

When GROUP TYPE is "LINE", then the BASIC SIZE and/or the EXTENDED SIZE fields must have entries.

For 5E15 and later, when GROUP TYPE is defined as "TRK" or "SFG" and GROUP NUMBER does not equal 0, then ROUTINE SIZE must be defined.

2.4 FEATURE NAME

Description: Enter the Feature Name which has been defined on the QUFD form.

Required Field.
Valid Entries: 1 - 8 characters

2.5 BASIC SIZE

Description: Enter the Basic Size of the queue when the queue is defined for a Group Type of "LINE".

Basic Size plus Extended Size is the total size or number of queue slots made available to queue calls simultaneously for this MLHG queue. For instance, if Basic Size is 10 and Extended Size is left blank, 10 calls may be queued while waiting for an idle MLHG terminal. If the queue is full with 10 queued calls, an attempt to queue the eleventh call will overflow the queue and the originator is given busy tone.
Valid Entries: 1 - 255

Data Rules:

For a Group Type of "SFG" or "TRK", this field must be blank.

2.6 EXTENDED SIZE

Description: Enter the Extended Size of the queue when the queue is defined for a GROUP TYPE of "LINE".

Extended Size is specified only when the incoming side of any FX Trunk Group is defined with the listed Directory Number of the queued-for MLHG in DIR CON DN on the TKGRP form (5202 Record). In this case, the Extended Size is defined as the size of the Trunk Group(s), so that an incoming seizure on any of these trunks and subsequent completion to the MLHG direct connect telephone number ensures that the trunk call will be queued.
Valid Entries: 1 - 255

Data Rules:

For a GROUP TYPE of "SFG" or "TRK", this field must be blank.

2.7 QUEUE MODULE

Description: Enter the Queue Module to indicate which Switching Module in this office will be designated to hold and service the queue being defined.

Required Field.
Valid Entries: 1 - 192

Data Rules:

The value entered must be defined as a valid Switching Module on the EQIM form (5700-1/2 Records).

If QUEUE MODULE is entered with a TGN and MEMB combination on one or more of the DELAY ANNOUNCEMENTS, FLEXIBLE FIRST ANNOUNCEMENT or PRIORITY ANNOUNCEMENTS then for each TGN and MEMB combination a matching TRUNK form should be defined with corresponding TEN[1,3], DEN[1,3] or NEN[1,3] equal to QUEUE MODULE.

2.8 QMON THRESHOLD

Description: Depending on whether the number of calls in the queue is greater or less than the threshold warning value, the QTWL (Queue Threshold Warning Lamp) on the console monitoring this MLHG is turned on or off. The QTWL does not indicate how long the calls have been queued. A lit threshold warning lamp simply indicates that the number of calls in the queue has exceeded the threshold value.

The QTWLs provided by the CSD (Circuit-Switched Data) feature and existing call waiting lamps are not related. Call waiting lamps are only provided for void queues and not for CSD queues. Call waiting warning lamps are lit when the call is in the queue for some specified time. QTWLs are available for both CSD and voice queuing.

Software Release: 5E6 and later
Valid Entries: 1 - 255

Data Rules:

When this field is entered, either BASIC SIZE or EXTENDED SIZE must be entered. QMON THRESHOLD must not be greater than the sum of BASIC SIZE and EXTENDED SIZE.

EXTENDED SIZE must be blank when QUEUE TYPE is "CSD". The extended queue size is used to reserve room in the queue for calls arriving over FX (Foreign Exchange) facilities. FX facilities do not support CSD calls.

2.9 NUM OF CALL WAITING LAMPS

Description: Enter the Number of Call Waiting Lamps.
Valid Entries: 1 - 3

Data Rules:

This field may be entered only if the GROUP TYPE is "LINE". When GROUP TYPE is "TRK" or "SFG", this field must be blank.

A value in NUM OF CALL WAITING LAMPS determines the maximum number of THRESHOLD values that may be entered in CALL WAITING LAMP rows.

For 5E4(2) and later, when "N" is entered in the THRESHOLD TYPE field on a QUFD form, this field must be 1.

CALL WAITING LAMPS

One, two or three lamps (fields Section 2.10 - Section 2.11) may be associated with each queue. There is one queue identified for each MLHG. Up to three delay thresholds, in ascending order, may be specified. Only one lamp will be lit, corresponding to the longest delay currently experienced.

2.10 THRESHOLD

Description: Enter the Call Waiting threshold.

For 5E4(2) and later, the THRESHOLD value may represent either an amount of time calls are in queue or the quantity of calls in queue. When the THRESHOLD TYPE field on a QUFD form is set to "N", THRESHOLD represents the acceptable number of calls in queue before the ISDN Attendant's call waiting warning lamp will light (the lamp will light when this threshold has been exceeded). When "T" is entered in the THRESHOLD TYPE field on a QUFD form, threshold represents an amount of time calls are in queue.

For 5E5 and later, when "N" is entered in THRESHOLD TYPE, THRESHOLD may be 1 - 255 (calls). When "T" is entered in THRESHOLD TYPE, THRESHOLD may be 1 - 31 (6-second intervals).
Valid Entries: 1 - 255

Data Rules:

For 5E5 and later, if THRESHOLD is entered and DPN is not entered, the QUFD form for the FEATURE assigned to this group must have LAMP TYPE set to "FB".

2.11 DPN

Description: If a DPN (Distribute Point Number) is to be associated with the corresponding Call Waiting Lamp Threshold, enter a unique DPN in the following format.

DISTRIBUTE POINT NUMBER

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

Data Rules:

For offices equipped with CM1 (Communication Module 1), valid entries for SM are 1-48. For offices equipped with CM2 (Communication Module 2), valid entries are 1-192.

For 5E4(2) and later, when "FB" (Feature Button) is entered in the LAMP TYPE field on a QUFD form, DPN must be blank.

For 5e5 and later, if DPN is entered, the QUFD form for the FEATURE assigned to this group must have LAMP TYPE set to "DP".

2.12 NUMBER OF ANNOUNCEMENTS

Description: Enter the Number of Announcements allowed (excluding the flexible first announcement).
Valid Entries: 1 - 4

Data Rules:

If this field is entered, then SPECIAL DELAY TREATMENT must be equal to "Y" on the associated QUFD form (5617-1/2 Records). The announcement or announcements to be used are defined in DELAY ANNOUNCEMENTS, one row for each announcement.

If this field is not entered, then Tone Interval before the First Announcement must not be specified in PRE DELAY TIMING or it must equal 0.

If this field is not entered or is equal to 1, then the Tone Interval Between Announcements must not be specified in INTER DELAY TIMING or it must equal 0.

For 5E9(1) and later, if NUMBER OF ANNOUNCEMENTS is not entered, then TGN from DELAY ANNOUNCEMENTS must not be entered.

2.13 PRE DELAY TONES

Description: Enter the Tone emitted before the first announcement.
Default: AUD
Valid Entries:

Valid PRE DELAY TONES Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No Tone

2.14 PRE DELAY TIMING

Description: Enter the Tone intervals before the first announcement where each interval represents a six-second duration.
Default: 0
Valid Entries: 0 - 20 (6-second intervals)

2.15 INTER DELAY TONE

Description: Enter the Tone emitted between announcements.
Default: AUD
Valid Entries:

Valid INTER DELAY TONE Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No Tone
MUS	Music

2.16 INTER DELAY TIMING

Description: Enter the Tone interval between announcements where each interval represents a six-second duration.
Default: 0
Valid Entries: 0 - 20 (6-second intervals)

2.17 POST DELAY TONE

Description: Enter the Tone emitted after the announcements.
Default: AUD
Valid Entries:

Valid POST DELAY TONE Entries

Entry	Definition
AUD	Audible Ringing Tone
IDLE	No Tone
MUS	Music

MUSIC SOURCE

The following fields (Section 2.18 - Section 2.19) are used to describe the music source for delay tones of "MUS".

2.18 TGN

Description: Enter the trunk group number of the trunk to be used as a music source for music delay tones.

Software Release: 5E6 and later
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

If TGN is entered, then music source MEMB must also be entered. A TGN can only be entered when GROUP TYPE is "LINE" and INTER or POST DELAY TONES is "MUS".

The TGN and MEMB must be defined on the TRUNK form with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE and MUSIC SOURCE equals "Y" on TRUNK form.

2.19 MEMB

Description: Enter the trunk group member number of the trunk to be used as a music source for music delay tones.

Software Release: 5E6 and later
Valid Entries: 0 - 1951

Data Rules:

If music source MEMB is entered, then music source TGN must also be entered.

ISDN ATTENDANT

The next two fields (Section 2.20 - Section 2.21) define warning lamps for the ISDN Attendant Group Overload Warning feature. For information on this feature, refer to Division 2, Section 1T.

2.20 QWARN THRESHOLD

Description: Enter the threshold for the QWARN feature button lamp. When the number of calls in the queue exceeds the threshold value, the QWARN feature button lamps on the appropriate ISAT (ISDN Attendant) terminals are turned on. When the number of calls in the queue falls below the threshold value, the QWARN feature button lamps on the appropriate ISAT terminals are turned off.

The QWARN feature button lamp is defined on the CFGGRP form (5964 Record) using an ACTION of "QCWARN". Refer to Division 6, Section 7A, for more information on this ACTION value.

Software Release: 5E8 and later
Valid Entries: 1 - 251

Data Rules:

If QWARN THRESHOLD is entered, BASIC SIZE must be entered; the QWARN THRESHOLD value must be less than (BASIC SIZE - 3). The number 3 indicates the number of queue slots reserved from the basic portion of the queue for emergency calls. This value is hard-coded in the call processing code.

The QWARN THRESHOLD is applicable only to ISAT Multi-Line Hunt Groups. If QWARN THRESHOLD is entered, GROUP NUMBER can only be defined as a Multi-Line Hunt Group on an MLHG form if HUNT TYPE is set to "ISAT" on the corresponding MLHGFD form.

If QWARN THRESHOLD is entered, the corresponding QUFD form must have CALL WAITING LAMPS set to "Y" and QUEUE TYPE set to "MLHG".

2.21 QBUSY DPN

Description: Enter a unique ISAT Queue Busy DPN (Distribute Point Number). When QBUSY DPN is entered, if the queue is full, the distribution point will cause a lamp to be lit. This lamp is not the same as the QBUSY feature button lamp on the ISAT terminal.

Software Release: 5E8 and later
Valid Entries: a 9-digit Distribute Point equipment number in the following format.

DISTRIBUTE POINT NUMBER

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

Data Rules:

If QBUSY DPN is entered, GROUP TYPE must be "LINE".

If QBUSY DPN is entered, it must be unique, i.e., it cannot be assigned on any other form.

If QBUSY DPN is entered, it must be a distribution point defined on the EQMSP or EQMMSP form with TYPE set to "DIST".

The QBUSY DPN is applicable only to ISAT Multi-Line Hunt Groups. If QBUSY DPN is entered then GROUP NUMBER can only be defined as a Multi-Line Hunt Group on an MLHG form with HUNT TYPE set to "ISAT" on the corresponding MLHGFD form.

If QBUSY DPN is entered, the corresponding QUFD form must have CALL WAITING LAMPS set to "Y" and QUEUE TYPE set to "MLHG".

3. FORM ENTRIES - 5617-4 RECORD

3.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

3.2 GROUP NUMBER

Description: Enter the Group Number. This number must be the same as that from the corresponding 5617-3 Record entry. This information is not required on the QUFD form.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 through 5E14: 1 - 4000
For 5E15 and later: 1 - 8191 for LINE (MLHG), 1 - 2000 for SFG, or 1 - 4000 for TRK.

3.3 GROUP TYPE

Description: Enter the type of group to which queuing will be applied. This entry must be the same as that from the corresponding 5617-3 Record entry. This information is not required on the QUFD form.

Valid GROUP TYPE Entries

Entry	Definition
LINE	Multi-Line Hunt Groups.
TRK	Software Release: 5E3 and later. Trunk Groups.
SFG	Software Release: 5E3 and later. Simulated Facility Groups.

Data Rules:

When GROUP TYPE is "LINE", the following conditions must be true on a corresponding QUFD form: the QUEUE TYPE field must be "CSD" or "MLHG" when EXTENDED SIZE is blank; if EXTENDED SIZE is entered, QUEUE TYPE cannot be "CSD".

3.4 FEATURE NAME

Description: Enter the Modular Queuing Feature Name.
Valid Entries: 1 - 8 characters

DELAY ANNOUNCEMENTS

Delay Announcements (fields Section 3.5 - Section 3.8) are assigned on a per-queue basis but can be shared by several queues.

Each row under DELAY ANNOUNCEMENTS defines the announcement trunk to be used. The quantity of announcements (rows) specified must not exceed the value entered in NUMBER OF ANNOUNCEMENTS. When any field in a row is specified, all of the fields in the row must be entered.

3.5 TYPE

Description: Enter the Announcement Type.

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In.
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

3.6 CYCLES

Description: Enter the number of times the Announcement is to be given.
Valid Entries: 0 - 4

3.7 TGN

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

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

For 5E9(1) and later, the quantity of DELAY ANNOUNCEMENTS TGN must be the same as the NUMBER OF ANNOUNCEMENTS.

3.8 MEMB

Description: Enter the Trunk Member of the Announcement Trunk Group.
Valid Entries: 0 - 1951

Data Rules:

This member must be defined on the TRUNK form (5204 Record) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

FLEXIBLE FIRST ANNOUNCEMENT

The Flexible First Announcement (fields Section 3.9 - Section 3.13) may be specified to provide an alternate announcement to the first announcement defined in DELAY ANNOUNCEMENTS. If specified, the Flexible First Announcement is used for the next call into the queue when the longest call already queued has been waiting in the queue for the amount of time as specified by THRESHOLD VALUE. If any field under Flexible First Announcement is entered, they all must be entered.

3.9 TYPE

Description: Enter the Announcement Type of the Flexible First Announcement.

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In.
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

3.10 CYCLES

Description: Enter the number of times the Flexible First Announcement is to be given.
Valid Entries: 0 - 4

3.11 TGN

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

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

3.12 MEMB

Description: Enter the Trunk Member of the Flexible First Announcement Trunk Group.
Valid Entries: 0 - 1951

Data Rules:

This member must be defined on the TRUNK form (5204 Record) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

3.13 THRESH VALUE

Description: Enter the Threshold Value associated with the Flexible First Announcement. When the longest queued call has waited this value, the next call into the queue will hear the Flexible First Announcement.
Valid Entries: 1 - 200 (6-second intervals)

3.14 SERV PROT TIME

Description: Enter the Service Protection Time in seconds. 0 indicates no timing or Service Protection.

This field is used when a queue has both a routine section and a priority section. It provides a means of ensuring that routine calls are not completely blocked from being serviced because of priority calls. Service Protection applies to both off-hook and ringback queuing. The expiration of the Service Protection Time does not cause routine calls to be dequeued immediately. Rather, this will cause the appropriate indicators to be set so that the next available port in the queued-for facility will be used for the call waiting at the head of the routine queue section instead of a priority call.

Software Release: 5E3 and later
Valid Entries: 0 - 2047 (seconds)

Data Rules:

If GROUP TYPE equals "LINE", this field must be left blank.

If a non-zero value is entered in this field, then PRIORITY QUEUE must be equal to "Y" on the associated QUFD form.

3.15 ROUTINE SIZE

Description: Enter the size of the Routine section of the queue when the queue is defined for a group type of "TRK" or "SFG". The Routine section of a queue may be either ringback or off-hook.

Software Release: 5E3 and later
Valid Entries: 1 - 255

Data Rules:

For a group type of "LINE", this field must be blank.

For 5E6 and later, when both PRIORITY SIZE and ROUTINE SIZE are entered, their sum cannot exceed 255.

3.16 ROU Q TIMEOUT

Description: Enter the Routine Queue Timeout in seconds. 0 indicates no timeout.

This field indicates the maximum time that a routine call can remain in the queue. If a Private Facility Access call has been dequeued because of this timeout and the queue is off-hook, the originator will be given reorder tone. An Automatic Route Selection call on timeout is subject to POST Q TREAT, which will indicate either Reorder or Alternate Treatment.

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 4095 (seconds)

Data Rules:

If group type is "LINE", this field must be blank.

If QUEUE TYPE on the associated QUFD form is "RGBK", this entry must be less than or equal to 1770.

3.17 PRIORITY SIZE

Description: Enter the size of the Priority section of the queue. 0 indicates no priority queuing.

Software Release: 5E3 and later
Valid Entries: 0 - 255

Data Rules:

If a Priority Section is provided, it should be off-hook.

If PRIORITY QUEUE on the associated QUFD form is equal to "Y", this entry must be greater than zero.

For 5E6 and later, when both PRIORITY SIZE and ROUTINE SIZE are entered, their sum cannot exceed 255.

3.18 PRI Q TIMEOUT

Description: Enter the Priority Queue Timeout in seconds. 0 indicates no timeout.

This field indicates the maximum time that a priority call can remain in the queue. If a Private Facility Access call has been dequeued because of this timeout, the originator will be given Reorder tone. An Automatic Route Selection call on timeout is subject to POST Q TREAT which will indicate either Reorder or Alternate Treatment.

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 4095

Data Rules:

If GROUP TYPE is "LINE", this field must be blank.

3.19 NUM OF PRI ANNCMTS

Description: Enter the number of Priority Announcements allowed for the Priority Section of the queue.

Software Release: 5E3 and later
Valid Entries: 0 - 3

Data Rules:

If this field is non-zero, PRIORITY DELAY TREATMENT must "Y". The announcement or announcements to be used are defined in PRIORITY ANNOUNCEMENTS, one row for each announcement.

PRIORITY ANNOUNCEMENTS

Priority Announcements (fields Section 3.20 - Section 3.23) are applicable to 5E3 and later Software Releases and are assigned on a per-queue basis for those queues that have Priority sections. These announcements do not have to be unique and may be shared with other queues. Each row under PRIORITY ANNOUNCEMENTS defines the announcement trunk to be used. The quantity of announcements (rows) specified must not exceed the value entered in NUM OF PRI ANNCMTS. When any field in a row is specified, all of the fields in the row must be entered.

3.20 TYPE

Description: Enter the Announcement Type of the Priority Announcement.

Software Release: 5E3 and later
Valid Entries:

Valid TYPE Entries

Entry	Definition
BARGE	Barge-In
NBARGE	No Barge-In, where the customer will hear the announcement from the beginning of the message.

3.21 CYCLES

Description: Enter the number of times the Priority Announcement is to be given.

Software Release: 5E3 and later
Valid Entries: 0 - 4

3.22 TGN

Description: Enter the Trunk Group Number of the Priority Announcement.

Software Release: 5E3 and later
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The TGN must be defined on the TKGRP form (5202 Record) with a TRK DIR equal to "ANN".

3.23 MEMB

Description: Enter the Trunk Member of the Priority Announcement Trunk Group.

Software Release: 5E3 and later
Valid Entries: 0 - 1951

Data Rules:

This member must be defined on the TRUNK form (5204 Records) with an equipment number specified such that the SM of the trunk is equal to the value entered in QUEUE MODULE.

3.24 RINGBACK TYPE

Description: Enter the distinctive ringing pattern to be used to ringback customers in a Ringback Queue. The pattern is independent of the Distinctive Ringing BRCS feature capability and thus does not require the queuing customer to have a Distinctive Ringing feature assigned.

Software Release: 5E3 and later
Valid Entries:

Valid RINGBACK TYPE Entries

Entry	Definition
A	2 seconds on, 4 seconds off (normal ringing).
B	800 ms on, 400 ms off, 800 ms on, 4 seconds off.
C	400 ms on, 200 ms off, 400 ms on, 200 ms off, 800 ms on, 4 seconds off.
D	1 second on, 1 second off, 1 second on, 3 seconds off.
P	Software Release: 5E4(2) and later. 1640 ms on, 360 ms off.

Data Rules:

This field may be entered only when the QUEUE TYPE on the QUFD is "RGBK".

3.25 RINGBACK INTRVL

Description: Enter the time limit in seconds for ringing back customers in a Ringback Queue. This field indicates how long to apply ringing to the customer's telephone when that customer is in a Ringback Queue and can be dequeued or serviced with the queued-for facility. If the customer does not answer the telephone within the time limit, the call will be removed from the queue without being served.

Software Releases: 5E3 and later

Valid Entries: 18, 24, 30, 36, 42, and 48 (seconds)

Data Rules:

This field may be entered only when the QUEUE TYPE on the QUFD form is "RGBK".

3.26 RETRY TIMEOUT

Description: Enter the Retry Timeout in seconds for attempting to ringback customers in a Ringback Queue when they have gone back off-hook. 0 indicates no timeout.

This field indicates how long to wait for a customer who is in a Ringback Queue, if while waiting for the queued-for facility, the customer answers or originates another call. With the customer's line busy, it cannot be rungback. If the customer does not hang up within the time specified, the call will be removed from the queue without being served.

Because of the software scanning function, the timeout value specified is the approximate time which timeout will occur within thirty seconds.

Software Release: 5E3 and later
Valid Entries: 0 - 1023 (seconds)

Data Rules:

This field may be entered only when the QUEUE TYPE on the QUFD form is "RGBK".

3.27 POST Q TREAT

Description: Enter the Post Queue Treatment to be given ARS (Automatic Route Selection) calls that have timed out of the queue. A call in the routine section of the queue will timeout based on the value entered in ROU Q TIMEOUT. A call in the priority section of the queue will timeout based on the value entered in PRI Q TIMEOUT.

When "ALTR" is entered and the call that has been queued was invoked through ARS, then the queued-for facility is the first route in a route list. Alternate Treatment indicates that upon timeout, a second attempt should be made through the route list. The FRL (Facility Restriction Level) of the ARS originator may be upgraded for this second attempt through the entries POST QUEUE FRL and THRESH FRL of the originators ARS Group Data on the ARSGPA form (5608-2 Record).

Software Release: 5E3 and later
Valid Entries:

Valid POST Q TREAT Entries

Entry	Definition
REORDER	Reorder Tone
ALTR	Alternate Treatment

Data Rules:

If GROUP TYPE is "LINE", this field must be blank.

3.28 OFC Q NUM TRK GRPS

Description: This field indicates the total number of trunk groups for which GETS calls can be queued in the Office Queuing Resource at any one time.

Software Release: 5E15 and later.
Valid Entries: 0 - 500

Data Rules:

When GROUP NUMBER equals 0 and OFC Q NUM TRK GRPS does not equal 0, both OFC Q TIMEOUT and OFC Q SIZE must not be 0.

3.29 EGR Q NUM TRK GRPS

Description: This field indicates the total number of trunk groups for which GETS calls can be queued in the Egress Queuing Resource at any one time.

Software Release: 5E15 and later.
Valid Entries: 0 - 500

Data Rules:

When GROUP NUMBER equals 0 and GROUP TYPE is "TRK", either OFC Q NUM TRK GRPS or EGR Q NUM TRK GRPS must not be 0.

When GROUP NUMBER equals 0 and EGR Q NUM TRK GRPS does not equal 0, both EGR Q TIMEOUT and EGR Q SIZE must not be 0.

Both the EGR Q NUM TRK GRPS and the OFC Q NUM TRK GRPS on the QUGPA form must be 0 to 255 for a Classic SM and 0 to 500 for SM2000.

3.30 OFC Q TIMEOUT

Description: This field indicates the maximum number of seconds that a call can remain in the GETS Queuing Resourse for Office Queuing.

Software Release: 5E15 and later.
Default: 15
Valid Entries: 0 - 90 seconds

3.31 EGR Q TIMEOUT

Description: This field indicates the maximum number of seconds that a call can remain in the GETS Queuing Resourse for Egress Queuing.

Software Release: 5E15 and later.
Default: 30
Valid Entries: 0 - 90 seconds

3.32 OFC Q SIZE

Description: This field indicates the number of queue slots made available to GETS OFC Q calls.

Software Release: 5E15 and later.
Default: 5
Valid Entries: 0 - 255

3.33 EGR Q SIZE

Description: This field indicates the number of queue slots made available to GETS EGR Q calls.

Software Release: 5E15 and later.
Default: 5
Valid Entries: 0 - 255

Data Rules:

For 5E15 and later, when the sum of (EGR Q SIZE * EGR Q NUM TRK GRPS) and (OFC Q SIZE * OFC Q NUM TRK GRPS) on the QUGPA form must not be greater than 255 on an SM, and 4000 on an SM-2000.

3.34 SADA

Description: Should the Service After Delay Announcement feature be activated?

The feature allows the first announcement of a delay treatment to be completely played before the call is made available to a hunt group. This field must be set to "Y" if the Service After Delay Announcement feature is active for any hunt group with queuing; otherwise, enter "N".

Software Release: 5E5 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the NUMBER OF ANNOUNCEMENTS field is blank or GROUP TYPE is not "LINE", then SADA must be "N". If SADA is "Y", GROUP TYPE must be "LINE".

3.35 ANNC BILL

Description: Does billing occur at the time of announcement? This Announcement Billing indicator field is part of the Service After Delay Announcement feature.

Software Release: 5E5 and later
Required Field.
Default: Y

Value Entries: Y, N

Data Rules:

Enter "N" if billing occurs when the call is connected to a hunt group member. Also, enter "N" if the GROUP TYPE is "SFG" or "TRK".

```
SCREEN 1 OF 3                     5ESS Switch
qugpa                         OFFICE DATA ADMINISTRATION
(5617-3/4)                 MODULAR QUEUING GROUP PARAMETERS

* 1. GROUP NUMBER               0022       12. NUMBER OF ANNOUNCEMENTS   _
```

```
* 2. GROUP TYPE                TRK                   DELAY TONES    DELAY TIMING
  3. FEATURE NAME              /QTRB      13. PRE        AUD            00
  4. BASIC SIZE                ___        16. INTER      AUD            00
  5. EXTENDED SIZE             ___        19. POST       AUD
  6. QUEUE MODULE              024
  7. QMON THRESHOLD            ___           MUSIC SOURCE
  8. NUM OF CALL WAITING LAMPS _          20. TGN  ____
  9. CALL WAITING LAMPS                   21. MEMB ____
  row     THRESHOLD      DPN                 ISDN ATTENDANT
   1         ___      _________           22. QWARN THRESHOLD ___
   2         ___      _________           23. QBUSY DPN       _________
   3         ___      _________
```

```
SCREEN 2 OF 3                    5ESS Switch
qugpa                     OFFICE DATA ADMINISTRATION
(5617-3/4)             MODULAR QUEUING GROUP PARAMETERS

 24. DELAY ANNOUNCEMENTS                   FLEXIBLE FIRST ANNOUNCEMENT
 row    TYPE   CYCLES    TGN     MEMB      29. TYPE         ______
  1    ______     _      ____    ____      30. CYCLES       _
  2    ______     _      ____    ____      31. TGN          ____
  3    ______     _      ____    ____      32. MEMB         ____
  4    ______     _      ____    ____      33. THRESH VALUE ___
```

```
SCREEN 3 OF 3                    5ESS Switch            _
qugpa                     OFFICE DATA ADMINISTRATION
(5617-3/4)             MODULAR QUEUING GROUP PARAMETERS

 34. SERV PROT TIME         ____         45. RINGBACK TYPE       B
 35. ROUTINE SIZE           030          46. RINGBACK INTRVL     36
 36. ROU Q TIMEOUT          0000         47. RETRY TIMEOUT       0180

 37. PRIORITY SIZE          ___          48. POST Q TREAT        ALTR
 38. PRI Q TIMEOUT          ____
 39. NUM OF PRI ANNCMTS     _            49. SADA                N
                                         50. ANNC BILL           Y
 40. PRIORITY ANNOUNCEMENTS
row   TYPE    CYCLES   TGN     MEMB
 1   ______      _     ____    ____
 2   ______      _     ____    ____
 3   ______      _     ____    ____
```

Figure 1 SAMPLE QUGPA FORM 5E8 THROUGH 5E14 SOFTWARE RELEASES

```
qugpa                             5ESS Switch
SCREEN 1 OF 4             OFFICE DATA ADMINISTRATION
(5617-3/4)           MODULAR QUEUING GROUP PARAMETER FORM
```

```
*1. GROUP NUMBER              ____         9. CALL WAITING LAMPS
*2. GROUP TYPE                ____        ROW THRESHOLD DPN
#3. FEATURE NAME              ________     1     ___    _________
 4. BASIC SIZE                ___          2     ___    _________
 5. EXTENDED SIZE             ___          3     ___    _________
#6. QUEUE MODULE              ___
 7. QMON THRESHOLD            ___         12. NUMBER OF ANNOUNCEMENTS _
 8. NUM OF CALL WAITING LAMPS _           DELAY    TONES TIMING
                                          13. PRE   AUD  00
                                          16. INTER AUD  00
                                          19. POST  AUD
```

```
qugpa                             5ESS Switch
SCREEN 2 OF 4             OFFICE DATA ADMINISTRATION
(5617-3/4)           MODULAR QUEUING GROUP PARAMETER FORM

 MUSIC SOURCE                      24. DELAY ANNOUNCEMENTS
20. TGN  ____                    ROW TYPE   CYCLES TGN  MEMB
21. MEMB ____                     1  ______   _    ____ ____
        ISDN ATTENDANT            2  ______   _    ____ ____
22. QWARN THRESHOLD ___           3  ______   _    ____ ____
23. QBUSY DPN       _________     4  ______   _    ____ ____
```

```
qugpa                             5ESS Switch
SCREEN 3 OF 4             OFFICE DATA ADMINISTRATION
(5617-3/4)           MODULAR QUEUING GROUP PARAMETER FORM

FLEXIBLE FIRST ANNOUNCEMENT    37. PRIORITY SIZE      ___
29. TYPE         ______        38. PRI Q TIMEOUT      ____
30. CYCLES       _             39. NUM OF PRI ANNCMTS _
31. TGN          ____
32. MEMB         ____          40. PRIORITY ANNOUNCEMENTS
33. THRESH VALUE ___           ROW TYPE   CYCLES TGN  MEMB
                                1  ______   _    ____ ____
34. SERV PROT TIME ____         2  ______   _    ____ ____
35. ROUTINE SIZE   ___          3  ______   _    ____ ____
36. ROU Q TIMEOUT  ____
```

```
qugpa                             5ESS Switch            _
SCREEN 4 OF 4             OFFICE DATA ADMINISTRATION
(5617-3/4)           MODULAR QUEUING GROUP PARAMETER FORM

45. RINGBACK TYPE   _             55. SADA      N
```

```
46. RINGBACK INTRVL __            56. ANNC BILL Y
47. RETRY TIMEOUT   ____

48. POST Q TREAT       _______
49. OFC Q NUM TRK GRPS ___
50. EGR Q NUM TRK GRPS ___
51. OFC Q TIMEOUT      __
52. EGR Q TIMEOUT      __
53. OFC Q SIZE         ___
54. EGR Q SIZE         ___
```

Figure 2 SAMPLE QUGPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 19: PRECEDENCE AND PREEMPTION FORMS

SEC. 19A: 5618-1A/1B RECORD PRECEDENCE & PREEMPTION FEATURE DEFINITION FORM - PPFD

1. GENERAL

The 5618-1 Precedence and Preemption Feature Definition Record is available with the 5E2 and later Software Release. The Precedence and Preemption feature is used in DSN (Defense Switched Network) Interface switches to provide direct precedence dialing of calls and precedence treatment for terminating calls such as automatic preemption and the redirection of calls to an DSN Interface attendant associated with the dialed line.

A terminal (line or trunk) must be assigned a Precedence and Preemption Feature on the appropriate feature assignment forms: LINEFA form (5112 Record), MLHLNFA form (5113 Record), BFG form (5625 Record), TKGRPFA form (5206 Record) or TRUNKFA form (5205 Record).

Lines served by the 5ESS Switch (excluding a Satellite PBX) may have rotary, 12 or 16 button DTMF (Dual Tone Multi Frequency) terminals. The 16-button set, which is applicable only to DSN subscribers includes 4 additional digit values of "O" "F" I" and "P" used to indicate precedence level.

Precedence Level	Definition
O	Flash Override
F	Flash
I	Immediate
P	Priority

Special dialing patterns include DSN access codes, route codes, and DSN area codes. These special digits and codes must be translated in the Individualized Dialing Plan Dial Code Assignment IDPDCA form (5601-1/2 Records). With 5E3 and earlier, every line that has a Precedence and Preemption feature assigned to it must have an Individualized Dialing Feature with IDP Group equal to "Y". A PP (Precedence and Preemption) group is a Terminal Group where all of the members have a PP feature. With 5E3 and earlier, the line must also have a Terminal Group/Station Restriction Feature TGSRFD form (5607-1 Record). When defining the line on the LINE form (5109-1 Record), or the MLHLN form (5111-1 Record), the Line Class Code and Rate Area assigned must result in a Class of Service of "INDIV" or "ATND" on an LCC form (5306 Record) and Party must be "I" for Individual. When Multi-Line Hunt Lines have a Precedence and Preemption Feature assigned, all terminals of the group must have a PPFD and the Multi-Line Hunt Group must be assigned an MLHG Feature which has been defined on the MLHGFD form (5604 Record) with HUNT TYPE equal to "PRRG".

Lines which are defined for the Satellite PBX subscribers must also belong to the IDP Group and Terminal Group defined for the line at the 5ESS DSN Interface and, therefore, require the IDFD and TGSRFD Features described above. However, the satellite subscriber may only directly place routine DSN calls. When precedence calls are desired, these subscribers must access the DSN Attendant at the Interface Switch. The Class of Service may be "PBX" or "INDIV" and Party must be "I".

When a PPFD is defined with default parameters and the feature is assigned on a LINEFA form (5112 Record) or a MLHLNFA form (5113 Record), the line will be assigned all of the default parameters except TRUNK TYPE (this parameter is only applicable to trunks) unless the default parameters are overridden by values specified on a PPLPA form (5618-3 Record) or a PPMPA form (5618-4 Record), as appropriate.

1.1 Tie Trunks

For tie trunks to and/or from the DSN Network Switch, the Trunk Group must be defined on a TKGRP form

(5202-1 Record) with a TRKCLS of "LTOLLCON". OUTPULSING must be "TT" and INPULSING may be "DP" or "TT". All trunks in the Trunk Group must belong to the Terminal Group of the lines via a TGSR feature. These Trunk Groups may be Incoming, Outgoing, or Two-Way and must have an TRUNK TYPE defined on either this form, the PPFD as a default parameter or on the PPTPA form (5618-5 Record). The TRUNK TYPE must be either "VONPNID" or "VONRNID" where the latter may be used only for routine DSN calls. When the TRUNK TYPE is "VONPNID", all levels of precedence are appropriate. On an incoming call from the DSN Network Switch with the TRUNK TYPE "VONPNID", the first digit received is the precedence digit and the subsequent digits must translate to an ACTION of "ICMUSE" in the IDPDCA. (If not, the Fixed Route Type of "PPVAC" is invoked.) With 5E3 and earlier, these trunks must have an Individualized Dialing Feature with IDP Group equal to Yes.

1.2 MLPP on PRI Trunks

For 5E9(2) and later, the MLPP (Multi-level Precedence and Preemption) feature allows a call with higher priority to preempt a PRI B-channel.If the preempted B-channel is needed for the subsequent connection, it is preempted for reuse. If it is not needed for the subsequent connections, it is preempted to clear. MLPP has the ability to mark each B-channel with a precedence level which uniquely identifies the current call. It also provides the transport of precedence level across the PRI. Each B-channel supports the five precedence levels.

In order for the MLPP feature to operate and the unique dialing plan of the DSN to be handled, a contructed BRCS feature is assigned to each end of a trunk group. The MLPP feature defines the MLPP trunk type. The switch uses the trunk type to decide how to populate the SETUP message.

The originating switch can be a DSN (Defense Switched Network) or a commercial office. A PRI MLPP trunk type ("MLPPCQ", "MLPPDQI , "MLPPDQO", "MLPPPQ") must be assigned, with a TRKCLS of "EDSL" on the TKGRP form. The Precedence limit (PREC LIMIT field) must be assigned.

1.3 Trunks to a Satellite PBX

For trunks outgoing to a Satellite PBX, the Trunk Group must be defined on the TKGRP form (5202-1 Record) with a TRKCLS of "PBXDID". With 5E3 and earlier, all trunks in the Trunk Group must belong to the Terminal Group of the lines via a TGSR Feature. These trunks must have an TRUNK TYPE defined on either this form, the PPFD, as a default parameter or on the PPTPA form (5618-5 Record). The TRUNK TYPE must be either "SATINID" or "SATPID". Since only routine calls can terminate directly to the "SATINID" type, precedence calls are redirected to the Attendant via the ATDN CDI specified on this form. Precedence calls may terminate directly on a "SATPID" type and, additionally, if the precedence call is not answered within a specified time, the call is routed to the Attendant via entries in FORWARD TIME and ATDN CDI.

1.4 Attendant Lines

The Attendant lines for the PP Group are expected to be defined in a Multiposition Hunt Type MLHG. Using unique DN (Directory Numbers) for different call types, which may be directed to the six subgroups of the MUPH group, enables the attendant to prioritize the answering of calls at the console. Examples of six possible subgroups are:

- DN for precedence calls.
- DN for routine calls.
- DN for non-DSN calls.
- Call Forwarding to an Attendant DN for precedence calls to a busy line.

- Call Forwarding to an Attendant DN for precedence calls to an idle line.
- Dial 0 for the Attendant, reconstructed DN.

A PP member defined with an Attendant Class of Service has the ability to override the precedence level of a line by Attendant Through Dialing, i.e., by dialing the precedence access code (subject to the authorized precedence level of the Attendant) and then dialing the remaining digits or cutting out of the call allowing the originating line to dial subsequent digits.

1.5 Digit Interpretation

Initial digit interpretation for a member of a PP group must be done in the IDPDCA form (5601-1/2 Record). Provisions have been made in the IDP to translate the special digit sequence of an DSN user. The general format of an DSN Interface user originating a precedence call to the DSN Network Switch is a feature code which may be combined with a precedence digit, a Route Code, an DSN area code, followed by a seven-digit DSN telephone number. This digit string may be represented as follows:

Where: (F+)(P) + (1X) + (NYX) + NNX + XXXX

Digit String	Definition
F	Feature access code
P	Precedence digit, usually any single digit 0 to 4
1X	Route code, where X = 0 to 9
NYX	DSN area code, same structure as an NPA
NNX	DSN switch center code
XXXX	Line number

The IDP is normally built with a feature code (e.g., 7) for routine DSN calls. Another feature code (e.g., 8) is designated for precedence calls, however, there are several important differences. In this case, this code is normally translated together with several second digits signifying the level of precedence. As an example, 80 could be used for flash override precedence calls, while 81 through 83 are used for the other precedence levels. These may be translated for a second dial tone following the 8 or without by selecting the appropriate ACTION in IDPDCA, such as "PAFO" or "PPFO".

Alternately, subscribers may be equipped with 16-button telephone sets which include the DTMF (Dual Tone Multi Frequency) digits of O, F, I, and P. These digits may also be translated in the IDP to indicate access to Flash Override, Flash, Immediate and Priority precedence calls.

Each time a PP user attempts to make a precedence call, the dialed precedence is checked against that user's authorized precedence. The user's authorization may be specified either as a default parameter on this form or on the appropriate parameter form, PPLPA or PPMPA.

When the precedence digit is not dialed but instead retrieved as part of a stored DN from an Abbreviated Dial List, no check is made on the user's authorized level. (If the DNs are stored in ADLIST through an "AD1CH" or "AD2CH" IDP Action, a precedence level check is made at the time of the CORC (Customer Originated Recent Change). This means that an originator may place an Abbreviated Dial call with a higher than authorized level of precedence to certain numbers if the originator shares a list but does not CORC the stored DNs or the DNs are stored via Recent Change.)

If a Route Code is subsequently dialed, these digits must also be translated in the IDP. The DIALING STATE of "PAUSE" was added to the IDPDCA to tell call processing it is necessary to go back through the IDPDCA with the next set of digits. PAUSE would be used with the above example of the digits 80, so the information can be collected on the feature access plus precedence level and then another pass through IDPDCA is made to translate the Route Code which indicates the routing treatment to be given specific types of calls.

If the next digits are an DSN area code, these will be translated in the IDPDCA as any of PP1AREA through PP5AREA. These are representations of the five possible geographic areas for DSN. These IDP designations are mapped into a corresponding Code Index value defined on this form.

For any given DSN call, the Code Index translated from the DSN area code indicator, the Route Code and the Precedence Level are used as keys along with the originator's Screening Index and the Terminal Group ID of the PP Group as an index into the PPSCRN form (5618-2 Record). The output of the PPSCRN form is the route or destination to take. Destinations include the tie trunk to the DSN Network Switch, the Attendant, or a failure route to an announcement or to Reorder. An DSN call does not get translated in the RAR form (5301 Record) as normal calls do.

1.6 Auto ARS and PP Features

Auto ARS and PP features are incompatible on the same line. If the PP feature is assigned, then ARS is not recognized and the call proceeds as a PP call. For additional information about the interaction of these features, see the "Automatic Route Selection" section of the Business and Residence Modular Features Feature Document, AT&T 235-190-101.

1.7 Recent Change View

The corresponding Recent Change View for this form is 12.31.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control Number and the Office Name on each record.

2.2 *FEATURE NAME

Description: This field is used to enter the Precedence and Preemption Feature Name. The first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA data base, but may not be deleted, changed or inserted.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: This field is used to enter a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (2.4 - 2.12) define the available feature options.

2.4 NON AV PREC LEVEL

Description: This field is used to enter the precedence level of calls involving a non-DSN line or trunk. If a line with this feature is involved in a call with a non-DSN line (or trunk), only calls with a higher precedence level than the one entered here may preempt the call.

Required Field.

Valid entries in order of increasing precedence are:

Valid NON AV PREC LEVEL Entries

Entry	Definition
R	Routine
P	Priortiy
I	Immediate
F	Flash
FO	Flash Override

2.5 FORWARD TIME

Description: This field is used to enter the number of seconds before a precedence call on a trunk from the end office to a satellite PBX is forwarded to an attendant. 0 means to immediately forward. Used for PBXDID outgoing trunks to a PP Trunk Group with a TRUNK TYPE of "SATPID". The call will be translated based on the entry in ATDN CDI.
Valid Entries: 0 - 60 seconds

2.6 ATDN CDI

Description: This field is used to enter a Code Index to be used to route precedence calls to an Attendant. For 5E3 and later, do not enter a Code Index if there is not an attendant to route calls to.

Required Field for 5E2 only.
Valid Entries: 1 - 4095

Data Rules:

The Code Index entered here must be specified on the PPSCRN form for each terminal group in which this feature is assigned.

2.7 AREA1 CDI

Description: This field is used to enter a Code Index to be used to route calls made to DSN geographic area 1.
Valid Entries: 1 - 4095

Data Rules:

The Code Index entered here must be on a PPSCRN form for each Terminal Group in which this feature is assigned.

If AREA1 CDI is specified and this feature is assigned to a line, then the line should be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA form) should have ACTION equal to "PP1AREA" and a FEATURE associated with the dialed code on the IDPDCA form must be the precedence and preemption wild-card feature (/PP*) or equal to this precedence and preemption feature.

2.8 AREA2 CDI

Description: This field is used to enter a Code Index to be used to route calls made to DSN geographic area 2.
Valid Entries: 1 - 4095

Data Rules:

The Code Index entered here must be on a PPSCRN form for each Terminal Group in which this feature is assigned.

If AREA2 CDI is specified and this feature is assigned to a line, then the line should be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA form) should have ACTION equal to "PP2AREA" and a FEATURE associated with the dialed code on the IDPDCA form must be the precedence and preemption wild-card feature (/PP*) or equal to this precedence and preemption feature.

2.9 AREA3 CDI

Description: This field is used to enter a Code Index to be used to route calls made to DSN geographic area 3.
Valid Entries: 1 - 4095

Data Rules:

The Code Index entered here must be on a PPSCRN form for each Terminal Group in which this feature is assigned.

If AREA3 CDI is specified and this feature is assigned to a line, then the line should be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA form) should have ACTION equal to "PP3AREA" and a FEATURE associated with the dialed code on the IDPDCA form must be the precedence and preemption wild-card feature (/PP*) or equal to this precedence and preemption feature.

2.10 AREA4 CDI

Description: This field is used to enter a Code Index to be used to route calls made to DSN geographic area 4.
Valid Entries: 1 - 4095

Data Rules:

The Code Index entered here must be on a PPSCRN form for each Terminal Group in which this feature is assigned.

If AREA4 CDI is specified and this feature is assigned to a line, then the line should be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA form) should have ACTION equal to "PP4AREA" and a FEATURE associated with the dialed code on the IDPDCA form must be the precedence and preemption wild-card feature (/PP*) or equal to this precedence and preemption feature.

2.11 AREA5 CDI

Description: This field is used to enter a Code Index to be used to route calls made to DSN geographic area 5.

Valid Entires: 1 - 4095

Data Rules:

The Code Index entered here must be on a PPSCRN form for each Terminal Group in which this feature is assigned.

If AREA5 CDI is specified and this feature is assigned to a line, then the line should be assigned an IDP (Individualized Dialing Plan) and at least one dialed code of the IDP (on the IDPDCA form) should have

ACTION equal to "PP5AREA" and a FEATURE associated with the dialed code on the IDPDCA form must be the precedence and preemption wild-card feature (/PP*) or equal to this precedence and preemption feature.

2.12 CROSSOVER

Description: Can ports without DSN network privileges be connected to DSN trunks without assistance from the attendant? This field must be "Y" in a DSN office.

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

LINE DEFAULT PARAMETERS

The following fields (2.13-2.27) define the default parameters assigned with the feature to lines. These parameters will be assigned to the lines unless they are overridden by entries on the PPLPA or PPMPA forms. The default parameters are optional; however, if any are entered, the default parameter entries must be consistent with one another.

2.13 AV TIE TRUNK PREC LEVEL

Description: This field is used to indicate the highest authorized Precedence Level of a call originated by a line with this feature to the DSN Network over an DSN Tie Trunk.

If a value is not entered (here or on the PPLPA or PPMA form), the line may not originate calls to the DSN Network.

When a line with this feature originates an DSN call to the DSN Network, the precedence of the digits analyzed in the IDPDCA will be checked against this entry to determine if the originator has sufficient permission.

Software Release: 5E2 only
Valid Entries: Valid entries in order of increasing precedence are:

Valid AV TIE TRUNK PREC LEVEL Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override

Data Rules:

If ORIGINATE AV CALLS is "Y" then AV TIE TRUNK PREC LEVEL must be entered. If ORIGINATE AV CALLS is "N" then AV TIE TRUNK PREC LEVEL must not be entered.

Related Actions specified on the IDPDCA are as follows, where the first ACTION includes a second Dial Tone and the latter does not:

Action	Second Dial Tone	No Second Dial Tone
R(Routine)	PAR	PPR
P(Priortiy)	PAP	PPP
I(Immediate)	PAI	PPI
F(Flash)	PAF	PPF
F(Flash Override)	PAFO	PPFO

2.14 PREC COI

Description: This field is used to indicate the highest authorized precedence of a call originating on this line to a port in the same community of interest group.

If a value is not entered (here or on the PPLPA or PPMPA form), the line may not originate calls to the DSN Network.

When a line with this feature originates an DSN call to the DSN Network, the precedence of the digits analyzed in the IDPDCA will be checked against this entry to determine if the originator has sufficient permission.

Software Release: 5E3 and later
Valid Entries: Valid entries in order of increasing precedence are:

Valid PREC COI Entries

Entry	Definition
R	Routine
P	Priortiy
I	Immediate
F	Flash
FO	Flash Override

Data Rules:

If this field or COI GROUP ID is entered, then both fields must be entered.

Related Actions specified on the IDPDCA are as follows, where the first ACTION includes a second Dial Tone and the latter does not:

Action	Second Dial Tone	No Second Dial Tone
R(Routine)	PAR	PPR
P(Priortiy)	PAP	PPP
I(Immediate)	PAI	PPI
F(Flash)	PAF	PPF
F(Flash Override)	PAFO	PPFO

2.15 LOCAL AV PREC LEVEL

Description: This field is used to enter the highest authorized Precedence Level of a call originated by a line with this feature to another line in the 5ESS office with a PP feature.

Software Release: 5E2 only
Required Field.
Default: R

Valid entries in order of increasing precedence are:
Valid Entries:

Valid LOCAL AV PREC LEVEL Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override
E	Executive

Data Rules:

Related Actions specified in the IDPDCA form are as follows:

Action	Second Dial Tone	No Second Dial Tone
R(Routine)	PAR	PPR
P(Priortiy)	PAP	PPP
I(Immediate)	PAI	PPI
F(Flash)	PAF	PPF
FO(Flash Overide)	PAFO	PPFO
E(Executive)	PAEO	PPEO

2.16 PREC NON COI

Description: This field is used to indicate the highest authorized precedence level of a call originating on this line to a non-community of interest group destination.

Software Release: 5E3 and later
Required Field.
Default: R

Valid entries in order of increasing precedence are:
Valid Entries:

Valid PREC NON COI Entries

Entry	Definition
R	Routine
P	Priortiy
I	Immediate
F	Flash
FO	Flash Overide
E	Executive

Related Actions specified in the IDPDCA form are as follows:

Action	Second Dial Tone	No Second Dial Tone
R(Routine)	PAR	PPR
P(Priortiy)	PAP	PPP
I(Immediate)	PAI	PPI
F(Flash)	PAF	PPF
FO(Flash Overide)	PAFO	PPFO
E(Excutive)	PAEO	PPEO

2.17 PREEMPTABLE LINE

Description: Can a line with this feature be preempted? If a line is assigned this feature and a PPLPA form (5618-3 Record) or PPMPA form (5618-4 Record)is not submitted and no entry is made in this field, "Y" will be assumed.
Valid Entries: Y, N

Data Rules:

If Multi-Line Hunt lines are assigned PP features, all preemptable lines in the group must have higher terminal numbers than nonpreemtable lines.

2.18 IMMED PREEMPTION

Description: Is immediate preemption in effect for preemption lines? Immediate preemptable allows calls of an appropriate priority terminating to the line to preempt regardless of call waiting or call forwarding - busy line being in effect.

If a line is assigned this feature and a PPLPA or PPMPA form is not submitted and no entry is made in this field, "Y" will be assumed.
Valid Entries: Y, N

Data Rule
If PREEMPTABLE LINE is "N", then this field must be equal to "N".

2.19 PREC CPU

Description: Can precedence calls to the line be picked up using the call pickup feature?

If a line is assigned this feature and a PPLPA or PPMPA form is not submitted and no entry is made in this field, "N" will be assumed. If a "Y" is entered and a PPLPA or PPMPA form is not submitted, a line with this feature also requires a call pickup terminating feature.
Valid Entries: Y, N

2.20 FWD IAGP PREC

Description: Will an intra-terminal group precedence call to a line with this feature be forwarded when the line is busy or does not answer?

If a line is assigned this feature and a PPLPA or PPMPA form is not submitted and no entry is made in this field, "N" will be assumed. If a "Y" is entered here or on a PPLPA or PPMPA form, a line with this feature also requires either a Call Forwarding - Don't Answer PP feature or a Call Forwarding Busy PP feature.
Valid Entries: Y, N

2.21 RECEIVE AV CALLS

Description: Can a PP line with this feature receive calls from the DSN Network? For a DSN office, "Y" must be entered. If "Y" is entered, this line also requires a Call Forwarding - Don't Answer PP feature.

Software Release: 5E2 only
Required Field.
Default: Y
Valid Entries: Y, N

2.22 TERM NETWK CALLS

Description: Can a PP line with this feature receive calls from the DSN Network? If "Y" is entered, this line also requires a Call Forwarding - Don't Answer PP feature. For a DSN office, "Y" must be entered.

Software Release: 5E3 and later
Required Field.
Default: Y
Valid Entries: Y, N

2.23 ORIGINATE AV CALLS

Description: Can a PP line with this feature originate calls to the DSN Network?

Software Release: 5E2 only

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

Data Rules:

If "Y" is entered, then AV TIE TRUNK PREC LEVEL must be entered. If "N" is entered, then AV TIE TRUNK PREC LEVEL must not be entered.

2.24 ORIG NETWK CALLS

Description: Can a PP line with this feature originate calls to the DSN Network?

Software Release: 5E3 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If the office is a DSN office, "Y" must be entered.

2.25 DIRECT STA SELECT

Description: Can a line with this feature have the Direct Station Select feature?

A line with Direct Station Select may not dial anything other than the abbreviated dial codes. No more than one digit is recognized by the switch for any single phone call.

If "Y" is entered, this line must also have a 1-digit no change abbreviated dial list and an IDP that will accommodate the abbreviated dial codes.

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

Data Rules:

When a PP feature with DIRECT STA SELECT set to "Y" on this form or on a PPLPA of BFG form is assigned to a line, a 1-digit speed call feature must be assigned to the line on a LINEFA, BFG, or associated CLUSTR form; when the PP feature is assigned to an MLHG/TERM, the 1-digit speed call feature must be assigned to the terminal on an MLHLNFA, BFG or associated CLUSTR form. For 5E7 and later, if the line or MLHG terminal is a Secondary Only Shared TN (MLHG/TERM), the Speed Call feature must be assigned to the Primary TN (MLHG/TERM).

2.26 COI GROUP ID

Description: This field is used to enter the Community of Interest Group ID. A COI is a group of subscribers who generate the majority of their traffic in calls to each other.

Software Release: 5E3 and later
Valid Entries: 1 - 20.

Data Rules:

If this field or PREC COI is entered, then both fields must be entered.

2.27 HOT LINE

Description: This field must have an entry if the line is a hot line. Hot line service is used when the forward number is that of another hot line or when a station only wishes to accept calls from other hot lines.

Hot line subscribers can be described as master, slave or neither. Typically, hot line subscribers are paired, where each hot line has the number of the other stored as its forward number. When both subscribers attempt to originate calls at the same time, the master hot line takes precedence over the slave hot line.

Software Release: 5E3 and later
Valid Entries:

Valid HOT LINE Entries

Entry	Definition
MV	Master voice hot line used for pairing.
MD	Master data hot line used for pairing.
SV	Slave voice hot line used for pairing.
SD	Slave data hot line used for pairing.
HV	Voice hot line that is neither a master or slave, used when hot lines are not paired.
HD	Data hot line that is neither a master or slave, used when hot lines are not paired.

Data Rules:

If entry is made in this field, the LCC form associated with the TN or MLHG/TERM must have a CLASS OF SERVICE of either "INDIV" or "4WINDIV".

A CKT TN or a CKT MLHG / CKT TERM defined on the DSLUSR form (5908 Record) cannot be assigned a hot line Precedence and Preemption feature.

TRUNK DEFAULT PARAMETERS

The following fields (2.28 - 2.32) define the default parameters assigned with the feature to trunks. These parameters will be assigned to the trunks unless they are overridden by entries on the PPLPA, PPMPA or PPTPA forms. The default parameters are optional, however, if any are entered, the default parameter entries must be consistent with one another.

2.28 TRUNK TYPE

Description: This field is used to indicate the DSN trunk type for trunks that are assigned this feature.

Software Release: 5E3 and later
Valid Entries:

Valid TRUNK TYPE Entries

Entry	Definition
EOINID	End Office Immediate Diversion Network In-Dialing.
EOPNID	End Office Precedence Diversion Network In-Dialing.
EORNID	End office Immediate Dialing Diversion Network In-Dialing.
MLPPCQ	Software Release: 5E9(2) and later. MLPP (Multi-Level Precedence and Preemption) Commercial Q.931/DSS1 for PBX or LEC. DSS1 (Digital Subscriber Signaling Number 1) is layer 3 ISDN protocol on BRIs and PRIs. The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
MLPPDQI	Software Release: 5E9(2) and later.

	Multi-Level Precedence and Preemption DSN Q.931/DSS1 IPR (Incoming PRI). The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
MLPPDQO	Software Release: 5E9(2) and later. Multi-Level Precedence and Preemption DSN Q.931/DSS1 OPR (Outgoing PRI). The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
MLPPPQ	Software Release: 5E9(2) and later. Multi-Level Precedence and Preemption Polygrid Q.931/DSS1. The Polygrid trunk is used to interconnect DSN switches. The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
NONRCD	Inter Switch Trunks without Route control digit.
OFFNET	Off-Network.
RCD	Route Control Digit.
SATINID	Satellite Immediate Network In-Dialing.
SATPID	Satellite Priority In-Dialing.
TIERNID	Tie Trunk Routine Network In-Dialing.
TIEPNID	Tie Trunk Precedence Network In-Dialing.
VONPNID	Tandem Precedence Network In-Dialing.
VONRNID	Tandem Routine Network In-Dialing.

Data Rules:

If a trunk is assigned this feature, either this field must be entered, or a PPTPA form must be submitted with an entry in its corresponding field.

For 5E9(2) and later:

- if TRUNK TYPE is "MLPPCQ", "MLPPDQI , "MLPPDQO", "MLPPPQ", NONRCD", "OFFNET", "RCD", "SATINID", SATPID", "TIERNID" ,"TIEPNID", "VONPNID" or "VONRNID", then ESP must be "N".
- If TRUNK TYPE is "MLPPCQ", "MLPPDQI , "MLPPDQO" or "MLPPPQ", then PREC LIMIT must be "F", "FO", "I", P" or "R".
- If a trunk group is assigned to a Precedence and Preemption Feature on either the TKGRPFA form or an associated CLUSTR form with a TRUNK TYPE of"MLPPCQ", "MLPPDQI", "MLPPDQO or "MLPPPQ" on either the PPFD form or PPTPA form; then the TGN must also be defined on the TKGRP form with a HUNT TYPE of "PRFL", "PRBL", PLFL", or "PLBL".

When trunks are assigned a Precedence and Preemption Feature on either the TRUNKFA form or an associated CLUSTR form with a TRUNK TYPE on either the PPFD form or the PPTPA form, then the TRKCLS on the associated TKGRP form must be as follows:

TRUNK TYPE	**TRKCLS TKGRP FORM**
EOINID	TTOLLCON
EOPNID	TTOLLCON
EORNID	TTOLLCON
MLPPCQ	EDSL
MLPPDQI	EDSL
MLPPDQO	EDSL
MLPPPQ	EDSL
NONRCD	PRINTOLL
OFFNET	LTOLLCON
RCD	PRINTOLL
SATINID	PBXDID
SATPID	PBXDID

TIEPNID	LTOLLCON
TIERNID	LTOLLCON
VONRNID	PF
	PFLASH
	PFITT
	LTOLLCON

2.29 PREC LIMIT

Description: This field is used to indicate the maximum authorized precedence level for the trunk.

Software Release: 5E3 and later
Default: R
Valid Entries:

Valid PREC LIMIT Entries

Entry	Definition
I	Immediate
F	Flash
FO	Flash Override
P	Priortiy
R	Routine

Data Rules:

Each TRUNK TYPE can only have the following values:

TRUNK TYPE	Value
EOINID	FO, F, I, P, R
EOPNID	FO, F, I, P, R
EORNID	R
MLPPCQ	F, FO, I, P, or R
MLPPDQI	F, FO, I, P, or R
MLPPDQO	F, FO, I, P, or R
MLPPPQ	F, FO, I, P, or R
NONRCD	FO
OFFNET	FO
RCD	FO
SATINID	FO
SATPID	FO
TIERNID	FO, F, I, P, R
TIEPNID	FO, F, I, P, R
VONPNID	FO, F, I, P, R
VONRNID	FO, F, I, P, R

2.30 ESP

Description: Is this trunk allowed preferential treatment under load conditions?

Software Release: 5E3 and later
Default: N

Valid Entries; Y, N

Data Rules:

If TRUNK TYPE is "MLPPCQ", MLPPDQI", "MLPPDQO", "MLPPPQ", "NONRCD", OFFNET", "RCD", "SATINID", "SATPID", TIERNID" ,"TIEPNID", "VONRNID" or, "VONPNID", ESP must be "N".

2.31 PRIORITY RINGING

Description: This field is used to enter the type of trunk signal required to cause a priority ring.

Software Release: 5E3 and later
Required Field.
Valid Entries:

Valid PRIORTIY RINGING Entries

Entry	**Definition**
4WOFF	Off-hook alerting.
4W350	Simple wink 350 milliseconds off-hook, 350 milliseconds on-hook,,off-hook.
4W1650	Continuous 1650 milliseconds off-hook, 350 milliseconds on-hook.
NORING	No ringing is to be supplied.

Data Rules:

If TRUNK TYPE is "EOINID", then "4WOFF", "4W350" or "4W1650" must be entered.

ESS 5618-1(01)TG-5 PRECEDENCE & PREEMPTION DATE ___________
FEATURE DEFINITION RECORD
5ESS SWITCH
PPFD
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE NAME	REMARKS	NPORNECAVLEVE	FWDTIME	ATDNCDI	AREA1CDI	AREA2CDI	AREA3CDI	AREA4 CDI	AREA5CDI	DEFAULT PARAMETERS									
										AVPRECLVL	LOCALPRECLVL	PREEMPI	IMMEDPREEMPT	PRECCPU	FWDIAGPPREC	RECAVCALLS	DSITRAECSTELEC	ORIQAVCALLS	TRUNKTYPE

		L															T		
/PP*	WILD CARD PREC ED & PRE EMPT	R	00	000 1															

Figure 1 PRECONSTRUCTED PRECEDENCE AND PREEMPTION FEATURE

```
Screen 1 of 2                    5ESS Switch
ppfd                      OFFICE DATA ADMINISTRATION
(5618-1A)         PRECEDENCE & PREEMPTION FEATURE DEFINITION


* 2.  FEATURE NAME  PP3             3. REMARKS  ________________________________

  FEATURE OPTIONS:
  4. NON AV PREC LEVEL       F
  5. FORWARD TIME            10
  6. ATDN CDI                0005
  7. AREA1 CDI               0005
  8. AREA2 CDI               0003
  9. AREA3 CDI               ____
 10. AREA4 CDI               ____
 11. AREA5 CDI               ____
 12. CROSSOVER               _
```

```
Screen 2 of 2                    5ESS Switch             _
ppfd                      OFFICE DATA ADMINISTRATION
(5618-1B)         PRECEDENCE & PREEMPTION FEATURE DEFINITION


 LINE DEFAULT PARAMETERS:                  TRUNK DEFAULT PARAMETERS:
 13. PREC COI             E                24. TRUNK TYPE          _______
 14. PREC NON COI         __               25. PREC LIMIT          __
 15. PREEMPTABLE LINE     Y                26. ESP                 _
 16. IMMED PREEMPTION     Y                27. PRIORITY RINGING    STD
 17. PREC CPU             _
 18. FWD IAGP PREC        _
 19. TERM NETWK CALLS     _
 20. ORIG NETWK CALLS     _
 21. DIRECT STA SELECT    _
 22. COI GROUP ID         05
```

```
 23. HOT LINE            __
```

Figure 2 SAMPLE PPFD FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 19B: 5618-2 RECORD
PRECEDENCE AND PREEMPTION SCREENING FORM - PPSCRN

1. GENERAL

The 5618-2 Precedence and Preemption Screening Record is available with the 5E2 and later Software Releases. It is used to define the routing treatment for calls associated with the DSN (Defense Switched Network) Precedence and Preemption feature.

When call processing attempts to route an DSN (Defense Switched Network) call, the data on this form is used to obtain the route or destination and to screen the call. On a POTS call, most of this data would be obtained in the RAR form (5301 Record). The RAR form is not used for an DSN (Defense Switched Network) call.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.31.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SCR

Description: Enter a screening index.

The Screen Indexes entered on this form are generally also entered on the RAR form since the originating line (or trunk) may be making either an DSN (Defense Switched Network) or a non-DSN (Defense Switched Network) call. A Screening Index is assigned to a line via the LCC form (5306 Record), and to a Trunk Group on the TKGRP form (5202 Record).

Required Field.
Valid Entries: 1 - 4095

2.3 * CDI

Description: Enter the Code Index.

The Code Index may be associated with either an Attendant or one of the DSN (Defense Switched Network) geographic areas 1-5. These Code Indexes are specified on the PPFD form (5618-2 Record) and are triggered through digit analysis entries in the IDPDCA form (5601-1/2 Records). For more information on DSN (Defense Switched Network) digit analysis see the section on PPFD.

Required Field.
Valid Entries: 1 - 4095

2.4 * AV ROUTE CODE

Description: Enter the DSN (Defense Switched Network) Route Code.

The values entered here correspond to the PNTRC action code in the originator's Individualized Dialing Plan defined on a IDPDCA form.

Required Field.
Valid Entries: 0 - 9

2.5 * PRECEDENCE LEVEL

Description: Enter an DSN (Defense Switched Network) Precedence Level.

The values entered here correspond to the PNTR, PNTP, PNTI, PNTF, PNTFO, and PNTEO (or the PDTR, PDTP, PDTI, PDTF, PDTFO, and PDTEO second dial tone versions) action codes in the originator's Individualized Dialing Plan defined on a IDPDCA form.

Required Field.

Valid entries appear in the following table in order of increasing precedence.

Valid PRECEDENCE LEVEL Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override
E	Executive

Data Rules:

When the Precedence Level is "E", then Route Type must not equal "MC", "HUNT" or "POLYGRD".

2.6 # ROUTE TYPE

Description: Enter the Route Type for calls accessing this entry.

Required Field.

Valid ROUTE TYPE Entries

Entry	Definition
ATDN	Used when the call is to complete to an attendant of the Terminal Group.
DN	Used when the call is to complete to a telephone within this 5ESS Switch office.
HUNT	Hunt for an idle trunk member.
MC	Used when the call is to route via an MC Route Index.
POLYGRD	Used for Polygrid routing in DSN (Defense Switched Network) offices.
REGL	Used when the call is to route via a regular Route Index.
REORD	Routes the call to Reorder Tone.

Data Rules:

See Figure 1 for dependencies between this and other fields on the form.

If ROUTE INDEX TYPE is "REGL", then RTIDX must not be entered.

For 5E11 and later, when the PPSCRN forms have a ROUTE TYPE of "POLYGRD" and a known ROUTE INDEX, there must be a PPPOLY form with a matching POLY RT NUM.

For 5E11 and later, when PPSCRN forms have a ROUTE TYPE of "HUNT" and a known ROUTE INDEX, there must be RTIDX form with a matching ROUTE INDEX.

2.7 RAX

Description: This field is used for routing and charging.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.8 EXC RAR

Description: This field indicates whether or not Exception tuples exist. This is a display only field.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Y, N

2.9 MC ROUTE INDEX

Description: When Route Type is "MC", enter an MC Route Index to route the call to the DSN (Defense Switch Network) Switch.

Software Release: 5E2 only.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and later: 1 - 4095

Data Rules:

Any entry here must be defined on the MCRTIDX form (5304 Record).

2.10 REGL ROUTE INDEX

Description: When Route Type is "REGRI", enter a REGL Route Index to route the call to a POTS Route Index usually for an announcement to block the call or to a satellite PBX Trunk Group.

Software Release: 5E2 only.
Valid Entries:
  For 5E10 and earlier: 1 - 3617
  For 5E11 and later: 1 - 4095

Data Rules:

Any entry here must be defined on the RTIDX form (5303 Record).

2.11 ROUTE INDEX

Description: When Route Type is "MC", enter an MC Route Index to route the call to the DSN (Defense Switched Network) Switch.

This field replaces the MC ROUTE INDEX and REGL ROUTE INDEX fields.

Software Release: 5E3 and later
Valid Entries:
  For 5E10 and earlier: 1 - 3617

For 5E11 and 5E12: 1 - 4095
For 5E13 and later: 1 - 16382

Data Rules:

The entry must be defined on an MCRTIDX form (5304 Record).

2.12 NPA

Description: The NPA field is used to specify the numbering plan area code. This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later
Valid Entries: 200 - 999

Data Rules:

When NPA is entered, OFFICE CODE must be entered.

2.13 OFFICE CODE

Description: When Route Type is "ATDN", enter the Office Code of an Attendant's Telephone Number served by the 5ESS Switch office.
Valid Entries: 3 digits

Data Rules:

Any entry here must be defined on the NOC form (5501 Record).

For 5E12 and later, if the PPSCRN forms have an OFFICE CODE defined and there are multiple NOC forms with the same value for OFFICE CODE, NPA must also be defined on the PPSCRN form.

For 5E12 and later, when the PPSCRN forms have an OFFICE CODE or NPA/OFFICE CODE combination assigned they must be defined on the NOC form.

2.14 DIGITS

Description: When Route Type is "ATDN", enter the four-digit line number of an Attendant's Telephone Number. The entry in OFFICE CODE, together with the entry in this field, are used to route the call to a line served by this office. (This is expected to be to a subgroup of the MUPH Multi-Line Hunt Group used for the DSN Attendant.)
Valid Entries: 4 digits

2.15 # CHARGE INDEX

Description: Enter the Charge Index for this call.

Required Field.
Valid Entries: 1 - 2047

Data Rules:

This field must be defined on the CGIDX form (5302-1 Record).

2.16 CODE CONTROL

Description: Are DSN (Defense Switch Network) Management Controls in effect?
Valid Entries: Y, N

Data Rules:

This field should equal "N" if the DSN OPTION field on the OFCOPT form (5509 Record) is also "N".

2.17 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 16 characters

Requirements for Route Type

Route Type	Route Index	Office Code	Digits
ATDN	prohibited	required	required
DN	prohibited	prohibited	prohibited
HUNT	required	prohibited	prohibited
MC	required	prohibited	prohibited
POLYGRD	required	prohibited	prohibited
REGL	required	prohibited	prohibited
REORD	prohibited	prohibited	prohibited

Figure 1 REQUIREMENTS FOR ROUTE TYPE 5E3 AND LATER SOFTWARE RELEASES

```
ppscrn                           5ESS Switch             _
(5618-2)                  OFFICE DATA ADMINISTRATION
                      PRECEDENCE & PREEMPTION SCREENING

* 1. SCR                 0010
* 2. CDI                 0010
* 3. AV ROUTE CODE       0
* 4. PRECEDENCE LEVEL    E
# 5. ROUTE TYPE          REGL
  6. ROUTE INDEX         ____
  7. OFFICE CODE         ___
  8. DIGITS              ____
# 9. CHARGE INDEX        0010
 10. CODE CONTROL        N
 11. REMARKS             ________________
```

Figure 2 SAMPLE PPSCRN FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
ppscrn                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5618-2)               PRECEDENCE & PREEMPTION SCREENING

 *1. SCR              ____
 *2. CDI              ____
 *3. AV ROUTE CODE    _
```

```
 *4. PRECEDENCE LEVEL __
 #5. ROUTE TYPE       _______
  6. ROUTE INDEX      ____
  7. NPA              ___
  8. OFFICE CODE      ___
  9. DIGITS           ____
#10. CHARGE INDEX     ____
 11. CODE CONTROL     _
 12. REMARKS          ________________
```

Figure 3 SAMPLE PPSCRN FORM 5E12 THROUGH 5E16(1) SOFTWARE RELEASES

```
ppscrn                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5618-2)               PRECEDENCE & PREEMPTION SCREENING

 *1. SCR              ____        13. CODE CONTROL _
 *2. CDI              ____        14. REMARKS      ________________
 *3. AV ROUTE CODE    _
 *4. PRECEDENCE LEVEL __
 #5. ROUTE TYPE       _______
  6. RAX              ___
     EXC RAR          _
  8. ROUTE INDEX      _____
  9. NPA              ___
 10. OFFICE CODE      ___
 11. DIGITS           ____
#12. CHARGE INDEX     ____
```

Figure 4 SAMPLE PPSCRN FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 19C: 5618-3 RECORD
PRECEDENCE AND PREEMPTION
LINE (TN) PARAMETER FORM - PPLPA

1. GENERAL

The 5618-3 Precedence and Preemption Line (TN) Parameter Record is available with 5E2 and later Software Releases. It is used to assign specific DSN (Defense Switched Network) PP (Precedence and Preemption) feature parameters to non-Multi-Line Hunt lines. It is required only if the default parameters entered on the PPFD form are inappropriate. If this form is submitted for a given line, all the parameters on this form override all the parameters specified on the PPFD form (5618-1 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.31.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the non-Multi-Line Hunt line.

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:

The associated CLASS OF SERVICE on the LCC form (5306 Record) must be one of the following.

Valid Class of Service	
ATND	50B Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.

For 5E12 and later, TN/FEATURE combinations on different PPLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the PPLPA 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 * FEATURE

Description: Enter the name of the PP feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a PP feature defined on a PPFD form.

2.4 PREC COI

Description: This field is used to indicate the highest authorized precedence of a call originating on this line to a port in the same Community of Interest group.

When a line with this feature originates an DSN Call to the DSN Network, the precedence of the digits analyzed in the IDPDCA will be checked against this entry to determine if the originator has sufficient permission.

Related Actions specified in the IDPDCA are as follows, where the first Action includes a second Dial Tone and the latter does not:

R - PAR, PPR
P - PAP, PPP
I - PAI, PPI
F - PAF, PPF
FO - PAFO, PPFO

Valid entries for PREC COI appear in the following table in order of increasing precedence.

Valid PREC COI Entries

Entry	Definition
R	Routine
E	Executive
P	Priority
I	Immediate
F	Flash
FO	Flash Override

Data Rules:

If this field is not entered, then the COI GROUP ID field must not be entered. However, if a value is entered in this field, then a COI GROUP ID value must also be entered. If a value is not entered (here or on the PPFD or PPMPA form), the line can still originate calls to the DSN Network.

2.5 PREC NON COI

Description: This field is used to indicate the highest authorized precedence level of a call originating on this line to a non Community of Interest group destination.

Related actions specified in the IDPDCA are the same as those listed under PREC COI with the addition of:

E - PAEO, PPEO

Required Field.
Default: R

Valid entries for PREC NON COI appear in the following table in order of increasing precedence.
Valid Entries:

Valid PREC NON COI Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override
E	Executive.

2.6 PREEMPTABLE LINE

Description: Can a line with this feature be preempted?

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

2.7 IMMED PREEMPTION

Description: For preemptable lines, is Immediate Preemption in effect? Immediate Preemption allows calls of an appropriate priority terminating to the line to preempt regardless of Call Waiting or Call Forwarding - Busy Line being in effect.

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

Data Rules:

If PREEMPTABLE LINE is "N", then this field must be equal to "N".

2.8 PREC CPU

Description: Can precedence calls to the line be picked up using the Call Pickup feature?

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

Data Rules:

If "Y" is entered, this line requires a Call Pickup Terminating feature.

2.9 FWD IAGP PREC

Description: Will an intra-Terminal Group precedence call to a line with this feature be forwarded when the line is busy or does not answer?

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

Data Rules:

If "Y" is entered, this line also requires either a Call Forwarding - Don't Answer PP feature or a Call Forwarding Busy PP feature.

2.10 TERM NETWK CALLS

Description: Can a PP line with this feature receive calls from the DSN Network?

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

Data Rules:

If "Y" is entered, this line also requires a Call Forwarding - Don't Answer PP feature. For a DSN office, "Y" must be entered.

2.11 ORIG NETWK CALLS

Description: Can a PP line with this feature originate calls to the DSN Network?

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

2.12 DIRECT STA SELECT

Description: Does a line with this feature have the Direct Station Select feature?

A line with Direct Station Select may not dial anything other than the abbreviated dial codes. No more than one digit is recognized by the switch for any single phone call.

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

Data Rules:

If "Y" is entered, this line must also have a 1-digit no change abbreviated dial list and an IDP that will accommodate the abbreviated dial codes.

2.13 COI GROUP ID

Description: Enter the Community of Interest Group ID. A COI is a group of subscribers who generate the majority of their traffic in calls to each other.
Valid Entries: 1 - 20

Data Rules:

If a COI GROUP ID is entered, then a value should be entered in the PREC COI field. However, if the PREC COI field is not entered, then this field must not be entered.

2.14 HOT LINE

Description: For 5E4(2) and later, this field must have an entry if the line is a hot line. Hot line service is used when the forward number is that of another hot line or when a station only wishes to accept calls from other hot lines.

Hot line subscribers can be described as master, slave or neither. Typically, hot line subscribers are paired, where each hot line has the number of the other stored as its forward number. When both subscribers attempt to originate calls at the same time, the master hot line takes precedence over the slave hot line.

Valid HOT LINE Entries

Entry	Definition
MV	Master voice hot line used for pairing
MD	Master data hot line used for pairing
SV	Slave voice hot line used for pairing
SD	Slave data hot line used for pairing
HV	Voice hot line that is neither a master or slave; used when hot lines are not paired
HD	data hot line that is neither a master or slave; used when hot lines are not paired

Data Rules:

When an entry is made to this field, the LCC form associated with the TN or MLHG/TERM must have a CLASS OF SERVICE of either "INDIV" or "4WINDIV".

A CKT TN defined on the DSLUSR form (5908 Record) cannot be assigned a hot line Precedence and Preemption feature.

```
pplpa                          5ESS Switch            _
(5618-3)                OFFICE DATA ADMINISTRATION
                 PRECEDENCE & PREEMPTION LINE (TN) PARAMETERS

* 1. TN                       4546000
* 2. FEATURE                  PP

  3. PREC COI                 F
  4. PREC NON COI             R
  5. PREEMPTABLE LINE         Y
  6. IMMED PREEMPTION         Y
  7. PREC CPU                 N
  8. FWD IAGP PREC            N
  9. TERM NETWK CALLS         Y
 10. ORIG NETWK CALLS         N
 11. DIRECT STA SELECT        N
 12. COI GROUP ID             01
 13. HOT LINE                 HV
```

Figure 1 SAMPLE PPLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
pplpa                           5ESS Switch           _
                        OFFICE DATA ADMINISTRATION
(5618-3)         PRECEDENCE & PREEMPTION LINE (TN) PARAMETERS

*1. TN      __________      12. COI GROUP ID __
```

```
*2. FEATURE ________         13. HOT LINE     __

 3. PREC COI          __
 4. PREC NON COI      R
 5. PREEMPTABLE LINE  Y
 6. IMMED PREEMPTION  Y
 7. PREC CPU          N
 8. FWD IAGP PREC     N
 9. TERM NETWK CALLS  Y
10. ORIG NETWK CALLS  N
11. DIRECT STA SELECT N
```

Figure 2 SAMPLE PPLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 19D: 5618-4 RECORD
PRECEDENCE AND PREEMPTION
LINE (MLHG/TERM) PARAMETER FORM - PPMPA

1. GENERAL

The 5618-4 Precedence and Preemption Line (MLHG/TERM) Parameter Record is available with the 5E2 and later Software Releases. It is used to assign specific DSN (Defense Switched Network) PP (Precedence and Preemption) feature parameters to Multi-Line Hunt lines. It is required only if the default parameters entered on the PPFD form are inappropriate. If this form is submitted for a given line, all the parameters on this form override all parameters specified on the PPFD form.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.31.

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 * MLHG

Description: Enter the Multi-Line Hunt Group number.

Required Field.
Valid Entries:

For 5E14 and earlier: 1 - 2000

For 5E15 and later: 1 - 8191

2.3 * TERM

Description: Enter a Multi-Line Hunt Group Terminal number.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line
INDIV	Individual Line
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines
ISATND	ISDN Attendant Terminal
PBX	Line to a PBX
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX

2.4 * FEATURE

Description: Enter the name of the PP feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a PP feature defined on the PPFD form (5618-1 Record).

2.5 PREC COI

Description: This field is used to indicate the highest authorized precedence of a call originating on this line to a port in the same Community of Interest group. If a value is not entered (here or on the PPFD or PPLPA form), the line may not originate calls to the DSN (Defense Switch Network).

When a line with this feature originates an DSN Call to the DSN, the precedence of the digits analyzed in the IDPDCA will be checked against this entry to determine if the originator has sufficient permission.

Related actions specified in the IDPDCA are as follows where the first action includes a second Dial Tone and the latter does not:

R - PAR, PPR
P - PAP, PPP
I - PAI, PPI
F - PAF, PPF
FO - PAFO, PPFO

Valid entries for PREC COI appear in the following table in order of increasing precedence.

Valid PREC COI Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override

Data Rules:

If a PREC COI is specified, then a COI GROUP ID must be entered.

If ORIGINATE AV CALLS is allowed, then PREC COI must be specified. If ORIGINATE AV CALLS is not allowed, then PREC COI must be unspecified.

2.6 PREC NON COI

Description: This field is used to indicate the highest authorized precedence level of a call originating on this line to a non-Community of Interest group destination.

Related actions specified in the IDPDCA are the same as those listed under PREC COI with the addition of:

E - PAEO, PPEO

Required Field.
Default: R

Valid entries for PREC NON COI appear in the following table in order of increasing precedence.
Valid Entries:

Valid NON PREC COI Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override
E	Executive

2.7 PREEMPTABLE LINE

Description: Can a line with this feature be preempted?

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

Data Rules:

If Multi-Line Hunt lines are assigned PP features, all preemptable lines in the group must have higher Terminal Numbers than non-preemptable lines.

2.8 IMMED PREEMPTION

Description: For preemptable lines, is Immediate Preemption in effect? Immediate Preemption allows calls of an appropriate priority terminating to the line to preempt regardless of Call Waiting or Call Forwarding - Busy Line being in effect.

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

Data Rules:

If PREEMPTABLE LINE is "N", this field must equal to "N".

2.9 PREC CPU

Description: Can precedence calls to the line be picked up using the Call Pickup feature?

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

Data Rules:

Since Multi-Line Hunt lines may not be assigned a Call Pickup Terminating feature, this field must be "N".

2.10 FWD IAGP PREC

Description: Will an intra-Terminal Group precedence call to a line with this feature be forwarded when the line is busy or does not answer?

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

Data Rules:

This is inappropriate for Multi-Line Hunt lines and this field must be "N".

2.11 RECEIVE AV CALLS

Description: Can a line with this feature receive calls from the DSN?

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

2.12 DIRECT STA SELECT

Description: Does a line with this feature have the Direct Station Select feature? A line with Direct Station Select may not dial anything other than the abbreviated dial codes. No more than one digit is recognized by the switch for any single phone call.

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

Data Rules:

If "Y" is entered, this Multi-Line Hunt line must also have a 1-digit no change abbreviated dial list and an IDP that will accommodate the abbreviated dial codes.

2.13 ORIGINATE AV CALLS

Description: Can a line with this feature originate calls to the DSN?

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

Data Rules:

If "Y" is entered, then PREC COI must be specified.

2.14 COI GROUP ID

Description: Enter the Community of Interest Group ID. A COI is a group of subscribers who generate the majority of their traffic in calls to each other.
Valid Entries: 1 - 20

Data Rules:

If a COI GROUP ID is entered, then a value should be entered in the PREC COI field.

2.15 HOT LINE

Description: This field must have an entry if the line is a hot line. Hot line service is used when the forward number is that of another hot line or when a station only wishes to accept calls from other hot lines.

Hot line subscribers can be described as master, slave or neither. Typically, hot line subscribers are paired, where each hot line has the number of the other stored as its forward number. When both subscribers attempt to originate calls at the same time, the master hot line takes precedence over the slave hot line

Valid HOT LINE Entries

Entry	Definition
MV	Master Voice hot line used for pairing
MD	Master Data hot line used for pairing
SV	Slave Voice hot line used for pairing
SD	Slave Data hot line used for pairing
HV	Voice hot line that is neither a master or slave; used when hot lines are not paired
HD	Data hot line that is neither a master or slave; used when hot lines are not paired

Data Rules:

If an entry is made in this field, the LCC form associated with the TN or MLHG/TERM must have a CLASS OF SERVICE of either "INDIV" or "4WINDIV".

A CKT MLHG / CKT TERM defined on the DSLUSR form (5908 Record) cannot be assigned a hot line Precedence and Preemption feature.

```
ppmpa                              5ESS Switch            _
(5618-4)                     OFFICE DATA ADMINISTRATION
             PRECEDENCE & PREEMPTION LINE (MLHG/TERM) PARAMETERS


* 1. MLHG                     0003
* 2. TERM                     0004
* 3. FEATURE                  /DSN

  4. PREC COI                 R
  5. PREC NON COI             R
  6. PREEMPTABLE LINE         Y
  7. IMMED PREEMPTION         Y
  8. PREC CPU                 N
  9. FWD IAGP PREC            N
 10. TERM NETWK CALLS         Y
 11. ORIG NETWK CALLS         N
 12. DIRECT STA SELECT        N
 13. COI GROUP ID             03
 14. HOT LINE                 HD
```

Figure 1 SAMPLE PPMPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 19E: 5618-5 RECORD
PRECEDENCE AND PREEMPTION
TRUNK PARAMETER FORM - PPTPA

1. GENERAL

The 5618-5 Precedence and Preemption Trunk Parameter Record is available with the 5E2 and later Software Releases. It is used to assign specific DSN (Defence Switched Network) PP (Precedence and Preemption) feature parameters to trunks. It is required only if the default parameters entered on the PPFD form are inappropriate. If this form is submitted for a given trunk, all the parameters on this form override all parameters specified on the PPFD Form.

If any member of a analog Trunk Group is assigned an DSN Precedence and Preemption feature, then all members of the Trunk Group must be assigned such features with the same Hunt Type, which must be one of the following types: "PRFL", "PRBL", "PLFL", and "PLBL".

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.31.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TRUNK GROUP

Description: Enter the Trunk Group Number.

Requied Field.
Valid Entries:
- For 5E10 and earlier: 1 - 2000
- For 5E11 and later: 1 - 4000

2.3 * MEMBER

Description: Enter a Trunk Group Member number.

Required Field.
Valid Entries: 0 - 1951

2.4 * FEATURE

Description: Enter the name of the PP feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a PP feature defined on the PPFD Form (5618-1 Record).

2.5 TRUNK TYPE

Description: Indicate the DSN Trunk Type for trunks that are assigned this feature.

Required Field.

Valid TRUNK TYPE Entries

Entry	Definition
EOINID	End Office - Immediate Network In-Dialing.
EOPNID	End Office/DSN interface Precedence Network In-Dialing.
EORNID	End Office/DSN interface Routine Network In-Dialing.
MLPPCQ	Software Release: 5E9(2) and later. MLPP (Multi-Level Precedence and Preemption) Commercial Q.931/DSS1 for PBX or LEC. DSS1 (Digital Subscriber Signaling Number 1) is layer 3 ISDN protocol on BRIs and PRIs
MLPPDQI	Software Release: 5E9(2) and later. Multi-Level Precedence and Preemption DSN Q.931/DSS1 IPR (Incoming PRI). The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
MLPPDQO	Software Release: 5E9(2) and later. Multi-Level Precedence and Preemption DSN Q.931/DSS1 OPR (Outgoing PRI). The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
MLPPPQ	Software Release: 5E9(2) and later. Multi-Level Precedence and Preemption Polygrid Q.931/DSS1. The Polygrid trunk is used to interconnect DSN switches. The MLPP trunk types are used to support the DSN (Defense Switched Network) MLPP on PRI feature. See Division 2 Section 6G for more information on the MLPP on PRI feature.
NONRCD	Inter Switch Trunks without Route control digit.
OFFNET	Non-DSN Trunks.
RCD	Inter-Switch Trunks with Route Control Digit.
SATINID	Satellite Immediate Network In-Dialing.
SATPID	Satellite Priority In-Dialing.
TIEPNID	Tie Trunk Precedence Network In-Dialing.
TIERNID	Tie Trunk Routine Network In-Dialing.
VONPNID	Tandem Precedence Network In-Dialing.
VONRNID	Tandem Routing Network In-Dialing.

Data Rules:

For 5E9(2) and later, if TRUNK TYPE is "MLPPCQ", "MLPPDQI", "MLPPDQO", "MLPPPQ", "NONRCD", "OFFNET", "RCD", "SATINID", "SATPID", "TIERNID" ,"TIEPNID", "VONPNID" or "VONRNID", then ESP must be "N".

If TRUNK TYPE is "MLPPCQ", "MLPPDQI", "MLPPDQO" or "MLPPPQ", then PREC LIMIT must be "F", "FO", "I", "P" or "R".

Before TRUNK TYPE on the PPTPA form can be set to either "MLPPCQ", "MLPPDQI", "MLPPDQO" or "MLPPPQ", the CENTREX PRI secured feature must be activated on the SFSYS form (5713-1 Record), i.e. the ACT field for SFID 105 must be set to "Y".The assignment of an ID feature to a PRI with an MLPP trunk type is used to analyze the called DN and the precedence level. Therefore, the CENTREX PRI Enhancement secured feature must be activated for proper assignment and operation of the MLPP on PRI feature.

If a trunk group is assigned to a Precedence and Preemption Feature on either the TKGRPFA form or an associated CLUSTR form with a TRUNK TYPE of"MLPPCQ", "MLPPDQI", "MLPPDQO" or "MLPPPQ" on either the PPFD form or PPTPA form; then the TGN must also be defined on the TKGRP form with a HUNT TYPE of "PRFL", "PRBL", "PLFL" or "PLBL".

When trunks are assigned a Precedence and PreemptionFeature on either the TRUNKFA form or an associated CLUSTR form with a TRUNK TYPE on either the PPFD form or the PPTPA form, then the TRKCLS on the associated TKGRP form must be as follows:

TRUNK TYPE	TRKCLS TKGRP FORM
EOINID	TTOLLCON
EOPNID	TTOLLCON
EORNID	TTOLLCON
MLPPCQ	EDSL
MLPPDQI	EDSL
MLPPDQO	EDSL
MLPPPQ	EDSL
NONRCD	PRINTOLL
OFFNET	LTOLLCON
RCD	PRINTOLL
SATINID	PBXDID
SATPID	PBXDID
TIEPNID	LTOLLCON
TIERNID	LTOLLCON
VONRNID	PF
	PFLASH
	PFITT
	LTOLLCON

2.6 PREC LIMIT

Description: Indicate the Precedence Level for Precedence and Preemption Limit.

Required Field.

Valid PREC LIMIT Entries

Entry	Definition
F	Flash
FO	Flash Override
I	Immediate
P	Priority
R	Routine

Data Rules:

If TRUNK TYPE is "SATINID", "SATPID", "OFFNET", "RCD" or "NONRCD", then PREC LIMIT must be "FO".

2.7 ESP

Description: Is a trunk with this feature essential service protected?
Default: N
Valid Entries: Y, N

Data Rules:

If TRUNK TYPE is "MLPPCQ", "MLPPDQI", "MLPPDQO", "MLPPPQ", "NONRCD", "OFFNET", "RCD", "SATINID", "SATPID", "TIERNID" ,"TIEPNID", "VONPNID", or "VONRNID", ESP must be "N".

2.8 PRIORITY RING

Description: Enter a Routine and Priority Ringing Pattern.

Required Field.

Valid PRIORITY RING Entries

Entry	Definition
4WOFF	Off-hook Alerting.
4W24	Continuous 2-second off-hook, 4-second on-hook.
4W350	Simple Wink 350 milliseconds off-hook, 350 milliseconds on-hook, off-hook.
4W1650	Continuous 1650 milliseconds off-hook, 350 milliseconds on-hook.
NORING	No Ringing is to be supplied.

Data Rules:

If TRUNK TYPE is "EOINID", then Priority Ringing must be "4WOFF", "4W350" or "4W1650".

```
pptpa                           5ESS Switch          _
(5618-5)                 OFFICE DATA ADMINISTRATION
                   PRECEDENCE & PREEMPTION TRUNK PARAMETERS


* 1. TRUNK GROUP         0001
* 2. MEMBER              0000
* 3. FEATURE             PP1

  4. TRUNK TYPE          RCD
  5. PREC LIMIT          FO
  6. ESP                 N
  7. PRIORITY RING       NORING
```

Figure 1 SAMPLE PPTPA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 19F: 5618-6 RECORD
PRECEDENCE AND PREEMPTION
COMMUNITY OF INTEREST FORM - PPCOI

1. GENERAL

The 5618-6 Record is available with the 5E3 and later Software Releases. It is used to define the code index for a COI (Community of Interest). A COI in the DSN (Defense Switched Network) is a grouping of subscribers who generate the majority of their traffic in calls to each other.

Each DN/MS (DSN Nodal/Multifunction Switch) is required to support twenty different COIs. Each user on the switch can belong to at most one COI, however a user need not belong to any COI.

Each DN/MS can define its own COIs. These can consist of Area Codes, Switch Center Codes, Individual Telephone Numbers or any combination of these.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * CODE INDEX

Description: Enter the Code Index.

Required Field.
Valid Entries: 1 - 4095

Data Rules:

The maximum number of code indices for any one COI (Community of Interest) is 170.

2.3 COMMUNITY OF INTEREST GROUP

Description: This is a list of the twenty COIs, 1 to 20. Enter a "Y" if this Code Index is in the COI.
Valid Entries: Y

```
ppcoi                             5ESS Switch             _
(5618-6)                  OFFICE DATA ADMINISTRATION
                PRECEDENCE & PREEMPTION COMMUNITY OF INTEREST

* 1. CODE INDEX   0211

  2. COMMUNITY OF INTEREST GROUP

     COI           COI
```

```
  (row)         (row)
   1   Y         11   _
   2   _         12   _
   3   _         13   _
   4   _         14   _
   5   _         15   _
   6   _         16   _
   7   _         17   _
   8   _         18   _
   9   _         19   _
  10   _         20   _
```

Figure 1 SAMPLE PPCOI FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 19G: 5618-7 RECORD
PRECEDENCE & PREEMPTION POLYGRID ROUTING FORM - PPPOLY

1. GENERAL

The 5618-7 Record, available with the 5E3 and later Software Releases, defines routing in the DSN (Defense Switched Network) polygrid network. This form and record are only valid in offices that have the DSN OPTION field on the OFCOPT form set to "Y". The DSN polygrid network is composed of overlapping grids of interconnected switching centers. The polygrid scheme is used for switching between DSN switching centers. All switches in the polygrid network have equal rank; the public switching network, in contrast, is a hierarchical arrangement.

The polygrid pattern has as its fundamental unit the "home grid". The home grid is a set of switches surrounding, and directly connected to, a destination center. The number of switching centers in the home grid can vary according to the home grid's location and traffic needs. In addition to this network of grids, direct trunk groups are established between widely separated centers when the traffic between those centers is sufficient to justify the expense.

For a given destination center, an originating switch checks all predefined routes until an available trunk is selected for the call. The far end of the trunk then becomes the controlling switch, while the previous switch relinquishes control of the routing. The selection process then repeats for the next trunk in the route.

The polygrid plan distinguishes between:

- "exterior routing", used when the originating switch is *not* in the home grid of the destination switch, and
- "interior routing", used when the originating switch is in the destination's home grid.

There are ten possible routes (the direct route plus three triples) that can be defined from the originating switch to the destination switch.

Route control in the polygrid network, depends on the use of the RCD (Route Control Digit) assigned to each route. This decimal digit is generated by each DSN Tandem Switch along a call route. The RCD immediately precedes the address digits transmitted over interswitch trunks. The RCD performs these functions:

- Exercises control over the alternate routing at the next switching center;
- Prevents "shuttle" and "ring around the rosy" ("shuttle" refers to the process of switching a call back-and-forth between the same two switching systems. "Ring around the rosy" refers to the process of switching a call to an office, which then switches to another office, which then switches back to the original office. This can be expanded to any number of offices.); and
- Assists in limiting the number of successive interoffice trunks that may be used on a call.

The administrators of the DSN run a computer program that outputs a listing of the polygrid data to be used at each DSN Tandem Switch. For each destination from a given switch, this listing specifies the trunk groups that comprise the direct route and the three triples of alternate routes, as well as the RCDs to be associated with each route.

The RCDs are assigned based on the following polygrid rules:

- RC-0 (Route Control digit 0) is always used on forward routes;

- RC-1, RC-2, and RC-3 must be used on lateral routes;
- RC-1 and RC-2 are used on the first lateral route, RC-3 on the second or only lateral route; and
- The RCDs are assigned to ensure that once a call arrives at, or originates in, the home grid of the destination switch, subsequent routing does not cause the call to leave the home grid.

A forward route is considered to be a route that advances a call to a switching center that is geographically nearer the destination. Once a call progresses to the home grid of the destination switch, the only forward route available is the direct route to the destination switch. Lateral routes are defined as routes that do not advance the call geographically by the factor required for forward routing.

1.1 Routine Polygrid Routing

Routine calls in the polygrid network use different routing when within the home grid than when outside of it. The possible routes that are searched are controlled by the RCD received from the previous switch (RC-0 is assumed if the call is at the originating switch). This is summarized as follows:

Interior Routing:

- RC-0 - Use direct route plus first triple;
- RC-1 - Use direct route only;
- RC-2 - Use direct route only;
- RC-3 - Use direct route only.

Exterior Routing:

- RC-0 - Use direct route plus first triple;
- RC-1 - Use direct route plus first triple;
- RC-2 - Use direct route plus first triple;
- RC-3 - Use direct route plus first triple.

On routine calls, the routes that make up the first triple are always searched in a fixed order.

1.2 Precedence Polygrid Routing

Precedence calls in the polygrid network also use different routing when within the home grid than when outside of it. The possible routes that are searched are controlled by the RCD received from the previous switch (RC-0 is assumed if the call is at the originating switch). This is summarized as follows:

Interior Routing:

- RC-0 - Use all programmed routes;
- RC-1 - Use direct route plus first triple;

- RC-2 - Use direct route plus second triple;
- RC-3 - Use direct route only.

Exterior Routing:

- RC-0 - Use all programmed routes;
- RC-1 - Use direct route plus first triple, plus second triple;
- RC-2 - Use direct route plus first triple, plus third triple;
- RC-3 - Use direct route plus first triple.

A precedence call originating in an exterior office may have up to ten routes available for routing. This drops to seven available routes once inside the home grid.

1.3 Recent Change View

The corresponding Recent Change View for this form is 10.34.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * POLY RT NUM

Description: Enter the Polygrid route pattern index number.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

2.3 GRID

Description: Enter the Grid type.

Required Field.

Valid GRID Entries

Entry	Definition
INT	Interior to the home grid.
EXA	Software Release: 5E4(2) and later. Exterior A grid route pattern to the home grid.
EXB	Software Release: 5E4(2) and later. Exterior B grid route pattern to the home grid.
EXC	Software Release: 5E4(2) and later. Exterior C grid route pattern to the home grid.
EXT	Software Release: 5E3 only. An exterior grid route pattern.

2.4 ROTATE

Description: Is rotation to be used to select the initial route of a triple on a precedence call?

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

2.5 IMMED PREEMPT

Description: Is immediate preemptable search required on this route?

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

2.6 ROUTE INDEX

Description: Enter the Route Index for each of the DIRECT and 1ST TRIPLE 1 through 3RD TRIPLE 3 fields.
Valid Entries:
    For 5E10 and earlier: 1 - 3617
    For 5E11 and later: 1 - 4095

Data Rules:

At least one of these ten ROUTE INDEXs must be defined.

If the ROUTE INDEX for 1ST TRIPLE 1 through 3RD TRIPLE 3 is blank, ROTATE and IMMED PREEMPT must be "N".

The ROUTE INDEX within each set of triples (e.g., 1ST TRIPLE 1 through 3RD TRIPLE 1) must be unique.

If ROUTE INDEX is specified, all ROUTE CONTROL DIGITS must be entered.

Each ROUTE INDEX must be defined on a RTIDX form (5303 Record).

> ***NOTE:*** For ROUTE INDEXES populated on this form, the NEXT ROUTE field on the RTIDX form must be left blank in ODA (or set to 0 in Recent Change) for DSN Network Management control CANF (Cancel From).

2.7 ROUTE CONTROL DIGITS

Description: Enter a set of four RCDs (Route Control Digits) for each of the DIRECT and 1ST TRIPLE 1 through 3RD TRIPLE 3 fields.

An explanation of how RCDs are used is contained in Section 1
Valid Entries: 0, 1, 2, or 3

Data Rules:

If the associated ROUTE INDEX is not entered, the ROUTE CONTROL DIGITS must be blank.

```
pppoly                           5ESS Switch             _
(5618-7)                    OFFICE DATA ADMINISTRATION
                   PRECEDENCE & PREEMPTION POLYGRID ROUTING

* 1. POLY RT NUM        3600
  2. GRID               INT
  3. ROTATE             Y
  4. IMMED PREEMPT      N

                    ROUTE     ROUTE CONTROL DIGITS
                    INDEX       3   2   1   0
  5. DIRECT         _____       _   _   _   _
 11. 1ST TRIPLE 1   0020        1   0   0   1
 17. 1ST TRIPLE 2   0300        1   1   0   0
 23. 1ST TRIPLE 3   _____       _   _   _   _
 29. 2ND TRIPLE 1   _____       _   _   _   _
 35. 2ND TRIPLE 2   _____       _   _   _   _
 41. 2ND TRIPLE 3   _____       _   _   _   _
 47. 3RD TRIPLE 1   _____       _   _   _   _
 53. 3RD TRIPLE 2   _____       _   _   _   _
 59. 3RD TRIPLE 3   _____       _   _   _   _
```

Figure 1 SAMPLE PPPOLY FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 19H: 5618-8 RECORD
DEFENSE SWITCHED NETWORK
CONNECTED OFFICES FORM - DSNCO

1. GENERAL

The 5618-8 Record is available with the 5E3 and later Software Releases. It is used to define the DSN (Defense Switched Network) offices that have direct routes with this switch and are subject to ARC (Alternate Route Cancellation). The ARC is implemented at the switch having direct trunk groups to the switch in congestion. The ARC can take two forms.

- CANF (Cancel Alternate Route From) - Traffic that terminates in a congested switch is not allowed to alternate route via other switches that reach that switch. However, traffic that is routed through a congested switch is allowed to alternate route.
- CANT (Cancel Alternate Route To) - Traffic that does not terminate in the congested switch is not allowed to access the direct trunks to that switch.

1.1 Recent Change View

The corresponding Recent Change view for this form is 10.36.

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: Enter the key value which is always 0.

Required Field.
Valid Entries: 0

NAME/ID PAIRS

This is a list of up to 63 pairs of NAME/ID values (fields Section 2.3 - Section 2.4). The NAME and ID are the DSN ARC identifier and must be unique. If the NAME attribute is defined, the ID must be defined and vice versa.

2.3 NAME

Description: This is the name of a directly connected DSN office subject to ARC.
Valid Entries: 3 alphabetic characters

2.4 ID

Description: This is the ID of a directly connected DSN office subject to ARC.
Valid Entries: 1 - 63

```
dsnco                          5ESS Switch            _
(5618-8)                 OFFICE DATA ADMINISTRATION
                  DEFENSE SWITCHED NETWORK CONNECTED OFFICES

*1. KEY  0

        3.         6.          9.          12.         15.         18.         21.
row  NAME ID    NAME ID     NAME ID     NAME ID     NAME ID     NAME ID     NAME ID
 1   ABC  01    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 2   DEF  02    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 3   GHI  03    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 4   JKL  04    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 5   MNO  05    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 6   PQR  06    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 7   STU  07    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 8   ___  __    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
 9   ___  __    ___  __     ___  __     ___  __     ___  __     ___  __     ___  __
```

Figure 1 SAMPLE DSNCO FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 20: AUTHORIZATION CODE FORMS

SEC. 20A: 5619-1 RECORD
AUTHORIZATION CODE FEATURE DEFINITION FORM - ATHFD

1. GENERAL

The 5619-1 Record is available with 5E3 and later Software Releases. It is used to define an ATH (Authorization Code) feature that will restrict dialing privileges to authorized personnel.

A terminal (line or trunk) may be assigned an ATH feature on the appropriate feature assignment form: LINEFA (5112 Record), MLHLNFA (5113 Record), TKGRPFA (5206 Record), TRUNKFA (5205 Record), or BFG (5625 Record). The terminal should be assigned to an ATH Group which may be defined as a default parameter of the ATHFD form or on an individual terminal basis with the ATHLPA (5619-5 Record), ATHMPA (5619-6 Record), or ATHTPA form (5619-7 Record).

Each authorization Code Group should have an entry on the ATHAC form (5619-3 Record) to indicate the authorization code associated with the group. An ATHFCOS form (5619-4 Record) should then be entered for each ATH group and FCOS. Each FEATURE entry on the appropriate LINEFA, MLHLNFA, TRUNKFA, TKGRPFA, CLUSTR form(s), which has AC set to "Y", must be entered in the FEATURE LIST on the ATHFCOS form.

Certain Authorization Code features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a slash (/); the slash may not be used as the first character of any feature other than preconstructed features. A list of the preconstructed Authorization Code features is contained in Figures 1 and 2.

1.1 ISDN Circuit-Switched Data Calls

The BRCS Supplementary Services for the ISDN CSD (Circuit-Switched Data) calls feature, which is available in 5E6 and later Software Releases, allows the Authorization Codes feature originally developed for CSV (Circuit-Switched Voice) calls to apply to CSD calls as well.

Use of the BRCS Supplementary Services for the CSD calls feature provides the means to establish CSD calls between BRIs (Basic Rate Interfaces) or PRIs (Primary Rate Interfaces) that are making use of the Authorization Codes services. When a line or trunk is assigned Authorization Code service, the service may apply to both CSV and CSD calls for that BRI or PRI.

All group options available to a CSV ATH user are also available to a CSD ATH user. The values of these options, which are entered on the ATHGP form (5608-2 Record), can differ or be the same for each group.

There can be several lines or trunks assigned to a specific ATH group. The subscriber can dial any of the authorization codes defined for the group from any line or trunk in the group. The same or separate, if desired, authorization codes can be used for both CSD and CSV calls.

CSD ATH groups may also be assigned through BFGs (BRCS Feature Groups) in the same manner CSV ATH groups are currently assigned.

Existing preconstructed features for CSV calls will also be used for CSD calls (no new preconstructed ATH features). For more information concerning the assignment of BRCS features, see Division 2, Section 1F.

1.2 Recent Change View

The corresponding Recent Change View for this form is 12.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and the office name on each record.

2.2 * FEATURE NAME

Description: Enter the Authorization Code Feature Name. The only restriction on the Feature Name is that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 to 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.10) specify feature options for the Authorization Code Feature.

2.4 ATH PROMPT

Description: Enter the type of prompt that will be given to the user to indicate when an Authorization Code should be entered.

Required Field.
Default: BEEP1
Valid Entries:

Valid ATH PROMPT Entries

Entry	Definition
BEEP1	One beep
BEEP2	Two beeps
BEEP3	Three beeps
LEAVE	Party leaving tone
DIAL	Dial tone

2.5 CHANGE FCOS

Description: Will the subscriber be allowed to change the FCOS (Feature Class of Service) from "MAIN" to "ALTERNATE" and vice versa via a dialed code?

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

Data Rules:

If CHANGE FCOS is "Y" and the feature is assigned to a line or trunk, then the line/trunk should normally be assigned an Individualized Dialing Plan. At least one dialed code of the IDP specified on the IDPDCA form (5601-1/2 Record) must have ACTION equal to "MAINACT" or "ALTACT". The FEATURE associated with these dialed codes should be the FEATURE NAME defined on this form.

Alternately, if the line/trunk is not assigned an IDP, then the PDIT used by the line must contain at least one dialed code with ACTION set to "MAINACT" or "ALTACT". The feature associated with these dialed codes should be the FEATURE NAME defined on this form.

2.6 CHANGE ATH FIRST

Description: Will the subscriber be allowed to change the ATH FIRST field via a dialed code?

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

Data Rules:

If CHANGE ATH FIRST is "Y", and the feature is assigned to a line or trunk, then the line/trunk should normally be assigned an Individualized Dialing Plan. At least one dialed code of the IDP specified on the IDPDCA form (5601-1/2 Record) must have an ACTION of "ATHOOS" or "ATHINS". The FEATURE associated with these dialed codes should be the FEATURE NAME defined on this form.

Alternately, if the line/trunk is not assigned an IDP, then the PDIT used by the line must contain at least one dialed code with ACTION "ATHOOS" or "ATHINS". The FEATURE associated with these dialed codes on the PDIT form should be the FEATURE NAME defined on this form.

2.7 ACT TYPE

Description: This field is used to indicate whether or not the ATH feature can be activated by the customer.

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
AUTO	No customer activation. Upon assignment the feature is made active and is ready to be used.
CODE	The ATH feature is activated by dialing a code.

Data Rules:

If ACT TYPE is "CODE" and the feature is assigned to a line or trunk, then the line/trunk should normally be assigned an Individualized Dialing Plan. At least one dialed code of the IDP specified on the IDPDCA form (5601-1/2 Record) should have ACTION equal to "ATHACT". The FEATURE associated with the dialed code should be the FEATURE NAME defined on this form.

Alternately, if the line/trunk is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "ATHACT". The FEATURE associated with the dialed code on the PDIT form should be the FEATURE NAME defined on this form.

If Telephone Numbers on the LINEFA forms are assigned an ATH Feature with the ACT TYPE entry set to "AUTO" on the ATHFD form the corresponding Initial Activation Status entry on the BFG, LINEFA or an associated CLUSTR form(s) must be equal to "Y".

If Multi-Line Hunt Group Terminal Numbers are assigned an ATH Feature via MLHLNFA, BFG, or an associated CLUSTR form(s), they also must have the ACT TYPE set to "AUTO" on the ATHFD form. Also the corresponding Initial Activation Status entry via MLHLNFA, BFG or an associated CLUSTR form(s) must be equal to "Y".

If TGN/MEMB(s) are assigned an ATH (Authorization Code) Feature on either the TRUNKFA form or an associated CLUSTR form, the ATH Feature must also be defined on the ATHFD form with ACT TYPE equal to "AUTO". Also the corresponding Initial Activation Status entry on the TRUNKFA or CLUSTR form must be set to "Y".

2.8 DACT TYPE

Description: This field is used to indicate whether or not the subscriber assigned this feature can deactivate the feature.

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
NONE	No customer deactivation is allowed. The feature can never be deactivated from the customer's station.
CODE	The ATH feature is deactivated by dialing a code.

Data Rules:

The subscriber either must be restricted from activating and deactivating the Authorization Code feature or must have the ability to do both. If ACT TYPE is "AUTO", DACT TYPE must be "NONE"; if ACT TYPE is "CODE", DACT TYPE must be "CODE".

If DACT TYPE is "CODE" and the feature is assigned to a line or trunk, then the line/trunk should normally be assigned an Individualized Dialing Plan. At least one dialed code of the IDP specified on the IDPDCA form (5601-1/2 Record) must have ACTION equal to "ATHDCT". The FEATURE associated with the dialed code on the IDPDCA form should be the FEATURE NAME defined on this form.

Alternately, if the line/trunk is not assigned an IDP, then the PDIT used by the line should contain at least one dialed code with ACTION equal to "ATHACT". The FEATURE associated with the dialed code on the PDIT form should be the FEATURE NAME defined on this form.

2.9 AMA OVERRIDE

Description: Should the Authorization Code override the Account Code in the AMA record? If this field is "Y", the Authorization Code will be stored in the Account Code field of the record.

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

Data Rules:

If AMA OVERRIDE is "Y", AMA LENGTH must be entered. If AMA OVERRIDE is "N", AMA LENGTH must be blank.

2.10 AMA LENGTH

Description: This field specifies the length of the Authorization Code that will override the Account Code field in the AMA record. The Authorization Code may be 8 digits or 15 characters.
Valid Entries: 8 or 15

DEFAULT PARAMETERS

The following fields (Section 2.11 - Section 2.16) define the default parameters assigned with the feature to terminals (lines or trunks). These parameters will be assigned to the terminal unless they are overridden by entries on the ATHLPA (5619-5 Record), ATHMPA (5619-6 Record), ATHTPA forms (5619-7 Record).

2.11 ATH GROUP NAME

Description: For 5E6 and later, this field has been renamed CSV ATH GRP.

Enter the name of the ATH Group.

Software Release: 5E3 - 5E5
Valid Entries: 1 - 8 characters

2.12 CSV ATH GRP

Description: Enter the name of the Circuit-Switched Voice ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

Defining a CSV ATH GRP is not required; however, if a CSD ATH GRP is defined on this form, then a CSV ATH GRP must also be defined.

2.13 CSD ATH GRP

Description: Enter the name of the Circuit-Switched Data ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

CSD only groups for ATH service are not allowed. This field can only be entered if CSV ATH GRP is entered.

If a CSD group is defined, the CSD ATH GRP name must not be the same as the CSV ATH GRP name.

2.14 ATH FIRST

Description: Will the customer be required to enter an Authorization Use Code and the Authorization Code before a TN can be dialed on the line?

✏ ***NOTE:*** 911 calls may be made without an Authorization Use Code and an Authorization Code when this field is set to "Y".

Valid Entries: Y, N

2.15 ATH FOR AMA

Description: Will an Authorization Code be required before allowing AMA recorded calls to proceed?
Valid Entries: Y, N

2.16 ATH FOR MDR

Description: Will an Authorization Code be required before allowing Message Detail Recording to proceed?
Valid Entries: Y, N

ESS 5619-1(5E6)TG-5 AUTHORIZATION CODE FEATURE DEFINITION DATE ___________
ATHFD 5ESS SWITCH
12.41
BASE______CONT GR____ 5ESS UNIT ___________________

FEATURE NAME	REMARKS	ATH PROMPT	CFHC AO NS G E	CFHI AR NS G TE A T H	A T CYTP E	D T AYCPTE	AO MV AE R R I D E	AL ME AN G T H	DEFAULT PARAMETERS				
									CSV ATHGRP	CSD ATHGRP	AT HFIRST	A THFOR AMA	AT HFOR MDR
/AH*	AUTHORIZATION CODE WILD CARD	DIAL	N	N	AUTO	NONE	N						
/ATHACF	ATH CODE LINE OUT OF SERVICE	DIAL	N	Y	AUTO	NONE	N						
/ATHCDE	ETS AUTHORIZATION CODES	DIAL	N	N	AUTO	NONE	N						

Figure 1 PRECONSTRUCTED ATH FEATURES 5E3 - 5E5 SOFTWARE RELEASES

ESS 5619-1(02)TG-5 AUTHORIZATION CODE FEATURE DEFINITION DATE ___________
ATHFD 5ESS SWITCH
12.41
BASE______CONT GR____ 5ESS UNIT ___________________

FEATURE NAME	REMARKS	ATH PROMPT	CHANGE FCOS	CHANGE ATH FIRST	ACT TYPE	DACT TYPE	AMA OVERRIDE	AMA LENGTH	DEFAULT PARAMETERS				
									CSV ATH GRP	CSD ATH GRP	ATH FIRST	ATH FOR AMA	ATH FOR MDR
ABC		BEEP1	N	N	AUTO	NONE	Y	8	ABC	CBA	Y	Y	Y

Figure 2 PRECONSTRUCTED ATH FEATURES 5E6 AND LATER SOFTWARE RELEASES

```
athfd                           5ESS Switch
(5619-1)                  OFFICE DATA ADMINISTRATION
                    AUTHORIZATION CODE FEATURE DEFINITION

* 2. FEATURE NAME ABC              3. REMARKS ________________________________

      FEATURE OPTIONS:                   DEFAULT PARAMETERS:
   4. ATH PROMPT        BEEP1       11. CSV ATH GRP  ABC
   5. CHANGE FCOS       N           12. CSD ATH GRP  CBA
   6. CHANGE ATH FIRST  N           13. ATH FIRST    Y
   7. ACT TYPE          AUTO        14. ATH FOR AMA  Y
```

```
   8. DACT TYPE          NONE         15. ATH FOR MDR  Y
   9. AMA OVERRIDE       N
  10. AMA LENGTH         __
```

Figure 3 SAMPLE ATHFD FORM   5E6 AND LATER SOFTWARE RELEASES

SEC. 20B: 5619-2 RECORD
AUTHORIZATION CODE GROUP DEFINITION FORM - ATHGP

1. GENERAL

The 5619-2 Record is available with 5E3 and later Software Releases. The ATHGP form is used to define the group level of information required for the Authorization Code capability.

A terminal (line or trunk) may be assigned an ATH feature, defined on the ATHFD form (5619-1 Record), through an appropriate feature assignment form: LINEFA (5112 Record), MLHLNFA (5113 Record), TKGRPFA (5206 Record), or TRUNKFA form (5205 Record). In addition, each terminal should be assigned to an ATH Group which may be defined as a default parameter of the ATHFD form (5619-1 Record) or on an individual terminal basis through the ATHLPA (5619-5 Record), ATHMPA (5619-6 Record), or ATHTPA form (5619-7 Record).

Each authorization Code Group should have an entry on the ATHAC form (5619-3 Record) to indicate the authorization code associated with each group. An ATHFCOS form (5619-4 Record) should then be entered for each ATH group and FCOS. Each feature requiring an authorization code for this group must be entered on the ATHFCOS form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.17.

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 * ATH GROUP NAME

Description: Enter the name of the ATH Group.
Valid Entries: 1 - 8 characters

Data Rules:

For 5E5 and later, the number of unique ATH Group names is limited to 255 on the corresponding ATHAC form (5619-1 Record).

For 5E6 and later, if a CSV ATH GROUP or CSD ATH GROUP is defined as a default parameter on the ATHFD form, that corresponding name must be entered in this field for the ATHGP form.

2.3 ATH LENGTH

Description: Enter the length of the authorization code(s) assigned to this group.

Required Field.
Valid Entries: 1 - 15

Data Rules:

All authorization codes for an ATH Group must be the same length. An ATHAC form (5619-3 Record) should be entered for each authorization code in the ATH Group. The lengths of the authorization codes must match the length entered in this field.

2.4 ACTIVE FCOS

Description: This field is used to indicate whether the main or alternate FCOS (Feature Class Of Service) is active.

Required Field.
Default: M
Valid Entries:

Valid ACTIVE FCOS Entries

Entry	Definition
M	Main
A	Alternate

Data Rules:

When this field is "A", the ALTERNATE ATH field must be "Y".

2.5 NEST FCOS

Description: This field is used to indicate whether the FCOS (Feature Class Of Service) entries will have a nested structure, i.e., FCOS n contains all features in FCOS 1 through n.

For example, if NEST FCOS is "Y", then an Authorization Code assigned on the ATHAC form, with an FCOS of 3 on the associated ATHFCOS form, authorizes the features and facilities in FCOS 1, 2, and 3. If NEST FCOS is "N", only features and facilities for FCOS 3 are authorized.

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

2.6 ALTERNATE ATH

Description: Does an alternate set of authorization codes and associated privilege sets exist?

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

Data Rules:

When this field is set to "N", ACTIVE FCOS must be "M".

2.7 FAIL MODE

Description: Should calls that require an authorization code be allowed to proceed during a communication failure (e.g., when an SM is in stand-alone, communication is lost to the AM, but enough information is available to process the call)?

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

2.8 ERROR TREATMENT

Description: Enter the error treatment to be given when a call requiring an authorization code in this group fails.

Required Field.
Default: REORD
Valid Entries:

Valid ERROR TREATMENT Entries

Entry	Definition
ANNC	Announcement
REORD	Reorder

Data Rules:

When this field is "ANNC", ANNC ROUTE INDEX must be known.

2.9 ANNC ROUTE INDEX

Description: Enter the route index to be used when ERROR TREATMENT is "ANNC".
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and later: 1 - 4095

Data Rules:

This route index must be defined on an RTIDX form (5303 Record) with a known Trunk Group Number. The Trunk Group Number on the RTIDX form must match the TGN value on a TKGRP form (5202 Record) with TRK DIR equal to "ANN".

2.10 INHIBIT TOD

Description: Should TOD (Time of Day) be inhibited? This field is used for temporary deactivation of TOD schedules.

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

```
athgp                           5ESS Switch
(5619-2)                  OFFICE DATA ADMINISTRATION
                     AUTHORIZATION CODE GROUP DEFINITION

 * 1. ATH GROUP NAME    XYZ

   2. ATH LENGTH        05
   3. ACTIVE FCOS       M
   4. NEST FCOS         N
   5. ALTERNATE ATH     N
   6. FAIL MODE         Y
```

```
   7. ERROR TREATMENT   ANNC
   8. ANNC ROUTE INDEX  0050
   9. INHIBIT TOD        N
```

Figure 1 SAMPLE ATHGP FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 20C: 5619-3 RECORD
AUTHORIZATION CODE DEFINITION FORM - ATHAC

1. GENERAL

The 5619-3 Record is available with 5E3 and later Software Releases. The ATHAC form is used to define each authorization code associated with a specific Authorization Code Group, and its main or alternate feature class of service values. This form should not be entered without an Authorization code feature defined on the ATHFD form (5619-1 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.18.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group Group number and the office name on each record.

2.2 * ATH GROUP NAME

Description: Enter the name of the ATH Group.
Valid Entries: 1 - 8 characters

Data Rules:

The ATH GROUP NAME entered here should be that of an ATH GROUP NAME defined on the ATHGP form (5619-2 Record).

2.3 * ATH CODE

Description: This field represents one of the possible authorization codes that can be associated with a given authorization code group(s). The Authorization codes can belong to one or several authorization code groups. All authorization codes belonging to the same group(s) must be the same length, i.e. have the same quantity of digits.
Valid Entries: 1 - 15 digits

Data Rules:

A LEC office may have 1 to 100,000 unique Authorization codes. A TOLL office may have 1 to 250000 unique Authorization Codes. The OFFICE TYPE is defined on the OFCOPT form (5509 Record).

The ATH CODE length (quantity of digits) here must correspond to the ATH LENGTH entry on the ATHGRP form.

2.4 MAIN FCOS

Description: Enter the main FCOS (Feature Class of Service).
Valid Entries: 1 - 16

Data Rules:

The MAIN FCOS or ALTERNATE FCOS must be entered, or both. If MAIN FCOS is entered, an ATHFCOS form (5619-4 Record) must be entered for this ATH GROUP NAME and FCOS.

2.5 ALTERNATE FCOS

Description: Enter the alternative Feature Class of Service.
Valid Entries: 1 - 16

Data Rules:

The MAIN or ALTERNATE FCOS must be entered, or both. If ALTERNATE FCOS is entered, an ATHFCOS form (5619-4 Record) must be entered for this ATH GROUP NAME and FCOS.

```
athac                             5ESS Switch
(5619-3)                   OFFICE DATA ADMINISTRATION
                         AUTHORIZATION CODE DEFINITION

 * 1. ATH GROUP NAME  MOE
 * 2. ATH CODE        1257
   3. MAIN FCOS       02
   4. ALTERNATE FCOS  04
```

Figure 1 SAMPLE ATHAC FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 20D: 5619-4 RECORD
AUTHORIZATION CODE
FEATURE CLASS OF SERVICE PARAMETER - ATHFCOS

1. GENERAL

The 5619-4 Record is available with 5E3 and later Software Releases. The ATHFCOS form is used to define the restriction and features associated with each FCOS (Feature Class of Service), main/alternate, assigned at an authorization code group.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.19.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

This field is used to enter the Base and Control number and the office name on each record.

2.2 *ATH GROUP NAME

Description: This field is used to enter the name of the ATH Group.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH GROUP defined on the ATHGP form (5619-2 Record).

When the TGN/MEMB(s) have the AC field set to "Y" for one or more FEATUREs on the TRUNKFA form or an associated CLUSTR form, all of these specific FEATUREs must exist on the ATHFCOS form for the CSV ATH GROUP NAME associated with this TGN/MEMB.

When the TGN(s) have the AC field set to "Y" for one or more FEATUREs on the TKGRPFA form or an associated CLUSTR form, all of these specific FEATUREs must exist on the ATHFCOS form for the CSV ATH GROUP NAME associated with this TGN.

When the TGN(s) have the AC field set to "Y" for one or more FEATUREs on the TKGRPFA form or an associated CLUSTR form, all of these specific FEATUREs must exist on the ATHFCOS form for the CSD ATH GROUP NAME associated with this TGN.

When the TGN/MEMB(s) have the AC field set to "Y" for one or more FEATUREs on the TRUNKFA form or an associated CLUSTR form, all of these specific FEATUREs must exist on the ATHFCOS form for the CSD ATH GROUP NAME associated with this TGN/MEMB.

2.3 *FCOS

Description: This field is used to enter the Feature Class of Service. Each FCOS entered here may correspond to a main or alternate FCOS on the ATHAC form (5619-3 Record).
Valid Entries: 1 - 16

2.4 FRL

Description: This field is used to enter the Facility Restriction Level value to be used to override the existing FRL value whenever an authorization code is entered.

This FRL may not override the originating FRL if an Alternate FRL is allowed (already active). If an Alternate FRL is active, the ALTFRL value defined for this overriding FRL is used. This ALTFRL value still may be insufficient in overriding the originating FRL, so the terminal is still denied access to the line (route to Reorder). For information concerning originating and overriding alternate FRLs, see Division 4, Section 9G.
Valid Entries:
For 5E6 and earlier: 1 - 16
For 5E7 and later: 0 - 16

Data Rule:
A blank value means do not override.

2.5 DPAT OVR

Description: Is the existing DPAT value to be overridden?
Valid Entries: Y, N

Data Rule:
If "Y" is entered, then there must be an entry for DPAT. If DPAT OVR is "N" or blank, then DPAT must be blank.

2.6 DPAT

Description: This field is used to enter a DPAT value to overrride the dialing plan access treatment. A value of 0 entered here will remove the original DPAT value and set it to null. If the initial DPAT value is 4 and the value entered in this field is 8, then the new DPAT value will be 8.
Valid Entries: 0 - 32

Data Rule:
A value is entered only if DPAT OVR is "Y".

2.7 RESTRICTION TYPE OVR

Description: Is the existing RESTRICTION TYPE value to be overridden?
Valid Entries: Y, N

Data Rule:
If "Y" is entered, then there must be an entry for DPAT. If RESTRICTION TYPE OVR is "N" or blank, then RESTRICTION TYPE must be blank.

2.8 RESTRICTION TYPE

Description: This field is used to enter the station restriction type that will override the present restriction type.
Default: NOVRD
Valid Entries:

Valid RESTRICTION TYPE Entries

Entry	Definition
FULL	Fully restricted origination
NONE	No origination call restriction
SEMI	Semi-restricted origination

NOVRD	Software Release: 5E3 and later. No override of Terminal Group privileges

Data Rules:

A value is entered only if RESTRICTION TYPE OVR is "Y". If the initial RESTRICTION TYPE is "FULL" and the value entered here is "SEMI", then the new RESTRICTION TYPE will be "SEMI".

2.9 TOLL SCREEN INDEX

Description: If a user enters an ATH code when prompted after dialing a DN, then this screen index is used to override the screen index associated with a toll diverted terminal.

If a user enters an ATH code prior to dialing a DN, this screen index will be used to route the call regardless of whether the call placed would have been toll diverted or not.
Valid Entries: 1 - 4095

Data Rules:

When TOLL SCREEN INDEX is blank, then TOLL RAX and TOLL CODE RESTRICT must be blank or 0.

2.10 AMA

Description: Is the FCOS sufficient to override the AMA (Automatic Message Accounting) restriction?

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

Data Rules:

If ATH FOR AMA on the associated ATHFD form (5619-1 Record), ATHLPA form (5619-5 Record), ATHMPA form (5619-6 Record) or ATHTPA form (5619-7 Record) is "Y", then for at least one FCOS, this field should be "Y". If ATH FOR AMA on the associated form is "N", then this field will not be looked at.

2.11 MDR

Description: Is the FCOS sufficient to override the MDR (Message Detail Recording) restriction?

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

Data Rules:

If ATH FOR MDR on the associated ATHFD, ATHLPA, ATHMPA or ATHTPA form is "Y", then for at least one FCOS, this field should be "Y". If ATH FOR MDR on the associated form is "N", then this field will not be looked at.

2.12 TOLL RAX

Description: This field indicates the rate center that is used to override the rate center associated with a toll diverted terminal.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.13 TOLL CODE RESTRICT

Description: This field indicates the Code Restriction associated with a toll diverted terminal.

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

FEATURE LIST

The Feature list (2.12) consists of a list of up to 48 BRCS Feature names (48 rows, each containing a unique BRCS Feature name).

Each terminal (line or trunk) which is to use the ATH capability must be assigned an ATH feature name defined on the ATHFD form, on the appropriate feature assignment form, LINEFA (5112 Record), MLHLNFA (5113 Record), TKGRPFA (5206 Record), TRUNKFA (5205 Record). In addition, each terminal should be assigned to an ATH Group which may be defined as a default parameter of the ATHFD form or on an individual terminal basis with the ATHLPA, ATHMPA, ATHTPA forms.

Each authorization Code Group should have an entry on the ATHAC form, to indicate the authorization code associated with each group. An ATHFCOS form should then be entered for each ATH group and FCOS. Then each FEATURE entry on the appropriate LINEFA, MLHLNFA, TRUNKFA, TKGRPFA, CLUSTR (5600 Record) form(s) with AC set to "Y" must be entered in the FEATURE LIST on the ATHFCOS form.

2.14 FEATURE

Description: This field is used to enter the unique BRCS Feature Name. The FEATURE entered here cannot be a wildcard feature or a Cluster Name.
Valid Entries: 1 - 8 alphanumeric characters

```
athfcos                          5ESS Switch
(5619-4)                  OFFICE DATA ADMINISTRATION
                      AUTHORIZATION CODE FCOS PARAMETERS
 * 1. ATH GROUP NAME ABC         5. DPAT                 __       9. AMA  Y
 * 2. FCOS           03          6. RESTRICTION TYPE OVR N        10. MDR Y
   3. FRL            05          7. RESTRICTION TYPE     ______
   4. DPAT OVR       N           8. TOLL SCREEN INDEX    _____
  11. FEATURE LIST
   row FEATURE       row FEATURE        row FEATURE        row FEATURE
    01 ________       13 ________        25 ________        37 ________
    02 ________       14 ________        26 ________        38 ________
    03 ________       15 ________        27 ________        39 ________
    04 ________       16 ________        28 ________        40 ________
    05 ________       17 ________        29 ________        41 ________
    06 ________       18 ________        30 ________        42 ________
    07 ________       19 ________        31 ________        43 ________
    08 ________       20 ________        32 ________        44 ________
    09 ________       21 ________        33 ________        45 ________
    10 ________       22 ________        34 ________        46 ________
```

```
    11 ________        23 ________        35 ________        47 ________
    12 ________        24 ________        36 ________        48 ________
```

Figure 1 SAMPLE ATHFCOS FORM 5E16(1) AND EARLIER SOFTWARE RELEASES

```
athfcos                          5ESS Switch
SCREEN 1 OF 2            OFFICE DATA ADMINISTRATION
(5619-4)             AUTHORIZATION CODE FCOS PARAMETERS

*1. ATH GROUP NAME     ________
*2. FCOS               __
 3. FRL                __
 4. DPAT OVR           _
 5. DPAT               __
 6. RESTRICTION TYPE   _____
 7. TOLL SCREEN INDEX  ____
 8. AMA               N
 9. MDR               N
10. TOLL RAX           ___
11. TOLL CODE RESTRICT ___
```

```
athfcos                          5ESS Switch
SCREEN 2 OF 2            OFFICE DATA ADMINISTRATION
(5619-4)             AUTHORIZATION CODE FCOS PARAMETERS

             12. FEATURE LIST(FEATENT)
ROW FEATURE  ROW FEATURE  ROW FEATURE  ROW FEATURE
  1 ________  13 ________  25 ________  37 ________
  2 ________  14 ________  26 ________  38 ________
  3 ________  15 ________  27 ________  39 ________
  4 ________  16 ________  28 ________  40 ________
  5 ________  17 ________  29 ________  41 ________
  6 ________  18 ________  30 ________  42 ________
  7 ________  19 ________  31 ________  43 ________
  8 ________  20 ________  32 ________  44 ________
  9 ________  21 ________  33 ________  45 ________
 10 ________  22 ________  34 ________  46 ________
 11 ________  23 ________  35 ________  47 ________
 12 ________  24 ________  36 ________  48 ________
```

Figure 2 SAMPLE ATHFCOS FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 20E: 5619-5 RECORD
AUTHORIZATION CODE LINE PARAMETER FORM - ATHLPA

1. GENERAL

The 5619-5 Record is available with 5E3 and later Software Releases. The ATHLPA form is used to assign ATH feature parameters to non-Multi-Line Hunt lines when the default parameters of the ATHFD form (5619-1 Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and the office name on each record.

2.2 * TN

Description: Enter the telephone number of the line.
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 associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	Definition
ATND	50B Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.

For 5E12 and later, TN and FEATURE NAME combinations on different ATHLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the ATHLPA 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 * FEATURE NAME

Description: Enter the Authorization Code Feature Name.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH feature defined on the ATHFD form (5619-1 Record).

2.4 ATH GROUP NAME

Description: For 5E6 and later, this field has been renamed CSV ATH GRP.

Enter the name of the ATH Group.

Software Release: 5E3 - 5E5
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP Forms (5619-2 Record).

2.5 # CSV ATH GRP

Description: Enter the name of the Circuit-Switched Voice ATH group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record).

2.6 CSD ATH GRP

Description: Enter the name of the Circuit-Switched Data ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record). Defining a CSD ATH GRP for this port is optional. If a CSD group is defined, the CSD ATH GRP name must not be the same as the CSV ATH GRP name.

2.7 # ATH FIRST

Description: Will the customer be required to enter an Authorization Use Code and the Authorization Code before a TN can be dialed on the line? If CHANGE ATH FIRST is "Y" on the associated ATHFD form, the customer may dial a code to change this field.

NOTE: 911 calls may be made without an Authorization Use Code and an Authorization Code when this field is set to "Y".

Required Field.
Valid Entries: Y, N

2.8 # ATH FOR AMA

Description: Will an Authorization Code be required before allowing any AMA recorded calls to proceed?

Required Field.
Valid Entries: Y, N

2.9 # ATH FOR MDR

Description: Will an Authorization Code be required before allowing a call recorded by MDR (Message Detail Recording) to proceed?

Required Field.
Valid Entries: Y, N

```
athlpa                            5ESS Switch
(5619-5)                   OFFICE DATA ADMINISTRATION
                   AUTHORIZATION CODE LINE (TN) PARAMETERS

 * 1. TN              6681158
 * 2. FEATURE NAME    MOEH

   3. ATH GROUP NAME  ABC
   4. ATH FIRST       Y
   5. ATH FOR AMA     Y
   6. ATH FOR MDR     Y
```

Figure 1 SAMPLE ATHLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
athlpa                            5ESS Switch
(5619-5)                   OFFICE DATA ADMINISTRATION
                   AUTHORIZATION CODE LINE (TN) PARAMETERS

 * 1. TN            5105674
 * 2. FEATURE NAME  ABC

 # 3. CSV ATH GRP   ABC
   4. CSD ATH GRP   ABC2
 # 5. ATH FIRST     Y
 # 6. ATH FOR AMA   Y
 # 7. ATH FOR MDR   Y
```

Figure 2 SAMPLE ATHLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 20F: 5619-6 RECORD
AUTHORIZATION CODE LINE (MLHG/TERM)
PARAMETER FORM - ATHMPA

1. GENERAL

The 5619-6 Record is available with 5E3 and later Software Releases. The ATHMPA form is used to assign ATH (Authorization Code) parameters to Multi-Line Hunt lines when the default parameters of the ATHFD form (5619-1 Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 3.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and the office name on each record.

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group Number of the line.
Valid Entries:
For 5E14 and earlier: 1 - 2000
For 5E15 and later: 1 - 8191

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Member Number of the line.
Valid Entries: 1 - 2015;
3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	Definition
ATND	50B Nondata Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	Software Release: 5E4(2) and later. Integrated Services Digital Network digital subscriber lines.
ISATND	Software Release: 5E4(2) and later. ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.

2.4 * FEATURE NAME

Description: Enter the Authorization Code Feature Name.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH feature defined on the ATHFD form (5619-1 Record).

2.5 ATH GROUP NAME

Description: For 5E6 and later, this field has been renamed CSV ATH GRP.

Enter the name of the ATH Group.

Software Release: 5E5 and earlier
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record).

2.6 # CSV ATH GRP

Description: Enter the name of the Circuit-Switched Voice ATH group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record).

2.7 CSD ATH GRP

Description: Enter the name of the Circuit-Switched Data ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record).

Defining a CSD ATH GRP for this port is optional. If a CSD group is defined, the CSD ATH GRP name must not be the same as the CSV ATH GRP name.

2.8 # ATH FIRST

Description: Will the customer have to enter an Authorization Use Code and the Authorization Code before a TN can be dialed on the line? If CHANGE ATH FIRST is "Y" on the associated ATHFD form, the customer may dial a code to change this field.

NOTE: 911 calls may be made without an Authorization Use Code and an Authorization Code when this field is set to "Y".

Required Field.
Valid Entries: Y, N

2.9 # ATH FOR AMA

Description: Is an Authorization Code required before allowing AMA recorded calls to proceed?

Required Field.
Valid Entries: Y, N

2.10 # ATH FOR MDR

Description: Is an Authorization code required before allowing a call recorded by MDR (Message Detail Recording) to proceed?

Required Field.
Valid Entries: Y, N

```
athmpa                           5ESS Switch
(5619-6)                  OFFICE DATA ADMINISTRATION
                AUTHORIZATION CODE LINE (MLHG/TERM) PARAMETERS

 * 1. MLHG             0032
 * 2. TERM             0021
 * 3. FEATURE          ATHMA

   4. ATH GROUP NAME   XYZ
   5. ATH FIRST        Y
   6. ATH FOR AMA      Y
   7. ATH FOR MDR      Y
```

Figure 1 SAMPLE ATHMPA FORM 5E3 - 5E5 SOFTWARE RELEASES

```
athmpa                           5ESS Switch
(5619-6)                  OFFICE DATA ADMINISTRATION
                AUTHORIZATION CODE LINE (MLHG/TERM) PARAMETERS

 * 1. MLHG          1100
 * 2. TERM          1100
 * 3. FEATURE       ABC

 # 4. CSV ATH GRP   ABC1
   5. CSD ATH GRP   ABC2
 # 6. ATH FIRST     N
 # 7. ATH FOR AMA   N
 # 8. ATH FOR MDR   N
```

Figure 2 SAMPLE ATHMPA FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 20G: 5619-7 RECORD AUTHORIZATION CODE TRUNK (TGN/MEMB) PARAMETER FORM - ATHTPA

1. GENERAL

The 5619-7 Record is available with 5E3 and later Software Releases. The ATHTPA form is used to assign ATH feature parameters to trunks when the default parameters of the ATHFD form (5619-1 Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.41.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Group number and the office name on each record.

2.2 * TGN

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

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202-1 Record) must be one of the following.

TRKCLS	Description
PF	Private Facility.
PFLASH	Private Facility Feature Flash.

2.3 * MEMB

Description: Enter the Trunk Group Member Number of the trunk.
Valid Entries:
For 5E2: 0 - 1983
For 5E3 and later: 0 to 1951

2.4 * FEATURE NAME

Description: Enter the Authorization Code Feature Name.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH feature defined on the ATHFD form (5619-1 Record).

2.5 ATH GROUP NAME

Description: For 5E6 and later, this field has been renamed CSV ATH GRP.

Enter the name of the ATH Group.

Software Release: 5E5 and earlier
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ATH Group defined on one or more ATHGP forms (5619-4 Record).

2.6 # CSV ATH GRP

Description: Enter the name of the Circuit-Switched Voice ATH group.

Software Release: 5E6 and later
Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record).

2.7 CSD ATH GRP

Description: Enter the name of the Circuit-Switched Data ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ATH Group defined on one or more ATHGP forms (5619-2 Record). Defining a CSD ATH GRP for this port is optional.

If CSD ATH GRP is entered, then CSV ATH GRP must also be entered.

2.8 # ATH FIRST

Description: Will the customer have to enter an Authorization Use Code and the Authorization Code before a TN can be dialed on the trunk? If CHANGE ATH FIRST is "Y" on the associated ATHFD form, the customer may dial an access code to change this field.

Required Field.
Valid Entries: Y, N

2.9 # ATH FOR AMA

Description: Is an Authorization code required before allowing AMA recorded calls to proceed?

Required Field.
Valid Entries: Y, N

2.10 # ATH FOR MDR

Description: Is an Authorization Code required before allowing a call recorded by MDR (Message Detail Recording) to proceed?

Required Field.
Valid Entries: Y, N

```
athtpa                           5ESS Switch
(5619-7)                  OFFICE DATA ADMINISTRATION
                AUTHORIZATION CODE TRUNK (TGN/MEMB) PARAMETERS

 * 1. TGN           0076
 * 2. MEMB          1900
 * 3. FEATURE NAME  ABC

 # 4. CSV ATH GRP   ABC
   5. CSD ATH GRP   CBA
 # 6. ATH FIRST     N
 # 7. ATH FOR AMA   N
 # 8. ATH FOR MDR   N
```

Figure 1 SAMPLE ATHTPA FORM   5E6 AND LATER SOFTWARE RELEASES

SEC. 21: APPLICATION PROCESSOR FORMS

SEC. 21A: 5620-1 RECORD
APPLICATION PROCESSOR CUSTOMER ASSIGNMENT FORM - APCA

1. GENERAL

The 5620-1 Record is available with 5E3 and later Software Releases. This is a BRCS (Business and Residence Custom Services) capability. This record is used to indicate whether or not the features, Traffic Data to Customer Location, Automatic Circuit Assurance 100 second scan, and/or Facilities Management have been purchased.

1.1 Recent Change View

The corresponding Recent Change view for this form is 24.3.

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 * BCID

Description: Enter the Business Customer Identification number.

Required Field.
Valid Entries: 1 - 65535

2.3 * AP SITE ID

Description: Enter the Application Processor Site Identification number. This identifies the AP to which the measurements are to be sent.

Required Field.
Valid Entries: 1 - 255

Data Rules:

For the 5E3 Software Release, each BCID and AP SITE ID entered should have a matching combination on the APGFP form (5620-2 Record).

For 5E4(2) - 5E5, if a "Y" is entered in the TRAFFIC DATA TO CUSTOMER LOCATION, AUTOMATIC CIRCUIT ASSURANCE, or FACILITIES MANAGEMENT field, then the BCID/AP SITE ID values must be defined on an APGFP form (5620-2 Record).

2.4 # TRAFFIC DATA TO CUSTOMER LOCATION

Description: Has the Traffic Data to Customer Location feature been activated for this customer?

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

2.5 # AUTOMATIC CIRCUIT ASSURANCE

Description: Has the Automatic Circuit Assurance feature been activated for this customer?

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

2.6 # FACILITIES MANAGEMENT

Description: Has the Facilities Management feature been activated for this customer?

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

2.7 # HSS

Description: Is the 100 Second Scan feature assigned to this customer?

Software Release: 5E4(2) and later
Required Field.
Default:

For 5E4(2) and 5E5: N
For 5E6 and later: Y

Valid Entries: Y, N

Data Rules:

If this field is "Y", the AP SITE ID must also be defined on the DSLAP form (5963 Record).

```
apca                             5ESS Switch
(5620-1)                  OFFICE DATA ADMINISTRATION
                  APPLICATION PROCESSOR CUSTOMER ASSIGNMENT

*1. BCID                                00235
*2. AP SITE ID                          001

#3. TRAFFIC DATA TO CUSTOMER LOCATION   Y
#4. AUTOMATIC CIRCUIT ASSURANCE         N
#5. FACILITIES MANAGEMENT               Y
#6. HSS                                 Y
```

Figure 1 SAMPLE APCA FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 21B: 5620-2 RECORD
APPLICATION PROCESSOR GROUP/FACILITY PARAMETER FORM - APGFP

1. GENERAL

The 5620-2 record is available with 5E3 and later Software Releases. This record defines parameters for those customers with ACA (Automatic Circuit Assurance), TDCL (Traffic Data to Customer Location) and FM (Facilities Management) features assigned to them.

The Automatic Circuit Assurance feature provides the customer with traffic and trunk measurements pertaining to their private features and facilities. These measurements are useful to the customer for administering engineering and forecasting equipment and trunk needs and can also be used to identify faulty trunks. It allows the customer to specify trunks to be scanned for usage and the trunks that should have their holding times monitored. The customer can specify short and long holding time threshold values and a short holding time call count threshold.

The Traffic Data to Customer Location feature allows customers to specify which private features and/or facilities they wish to receive measurements on, what type of measurements they want and how often they wish to receive the measurement reports. At the times specified by the customer (the end customer) reports containing the measurements requested will be sent to the customer's location.

The Facilities Management feature will permit the customer to manipulate the data for the various features listed on the APFMA form (5620-3 Record).

1.1 Recent Change View

The corresponding Recent Change View is 24.4.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * BCID

Description: Enter the Business Customer Identification number.

Required Field.
Valid Entries: 1 - 65535

2.3 * AP SITE ID

Description: Enter the Application Processor Site Identification number. This identifies the AP that the measurements are to be sent to.

Required Field.
Valid Entries: 1 - 255

Data Rules:

If the AP SITE ID is entered here and on the APCA (5620 Record) form with "Y" in the HSS field, a matching AP SITE ID should be entered on the DSLAP form (5963 Record). Otherwise, the AP SITE ID entered here should have a matching AP SITE ID on the APCOMM form (5507 Record) or DSLAP form.

2.4 * GROUP/FACILITY TYPE

Description: This entry identifies the groups that are using the various facilities.

Required Field.

Valid GROUP/FACILITY TYPE Entries

Entry	Definition
ACCT	Account Code Groups
ATTG	Attendant Groups
ARSG	Automatic Route Selection Groups
ARSPAT	Software Release: 5E3 and later. Automatic Route Selection Pattern
AUTH	Authorization Code Groups
IDPG	Individualized Dialing Plan Groups
MDR	Message Detail Recording Groups
MLHG	Multi-Line Hunt Groups
MLHGAC	Software Release: 5E4(2) and later. Attendant counts for MLHG
MLHGQC	Software Release: 5E4(2) and later. Queuing counts for MLHG
MQMLHG	Modular Queues for MLHG
MQSF	Modular Queues for SFG
MQT	Modular Queues for Trunks
SFG	Simulated Facility Groups
TERMG	Terminal Groups
TOD	Time Of Day Schedule
TRKG	Trunk Groups

Data Rules:

If GROUP/FACILITY TYPE is "ARSG" then BCID and GROUP NO/GROUP NAME must match ARS GROUP NAME on the ARSGPA form (5608-2 Record).

If GROUP/FACILITY TYPE is "IDPG" then BCID and GROUP NO/GROUP NAME must match IDP GROUP NAME on the IDPGP form (5601-4 Record).

If GROUP/FACILITY TYPE is "ARSPAT" then GROUP NO/GROUP NAME must match the MCRTI on the ARSSCRN form (5608-6 Record).

If GROUP/FACILITY TYPE is "AUTH" then BCID and GROUP NO/GROUP NAME must match BCID and ATH GROUP NAME on the ATHGP form (5619-2 Record).

If GROUP/FACILITY TYPE is "TOD" then GROUP NO/GROUP NAME must match the FEATURE NAME on TODFD form (5610-1 Record).

If GROUP/FACILITY TYPE is "MDR" on the APGFP form and the GROUP NO/GROUP NAME assigned on the APGFP form is also assigned on the MDRGP form (5624-2 Record) as MDR GROUP NAME, then the BCID and AP SITE ID on the MDRGP form must be the same as the BCID and AP SITE ID on the APGFP form.

If GROUP/FACILITY TYPE is "MQSF" or "SFG" then GROUP NO/GROUP NAME must match with the SFG NUMBER on the PFASFG form (5609-3 Record).

If GROUP/FACILITY TYPE is "MQT" or "TRKG" then GROUP NO/GROUP NAME must match with the TGN on the TKGRP form (5202 Record).

If GROUP/FACILITY TYPE is "MLHG" "MQMLHG" or "ATTG" then GROUP NO/GROUP NAME must match with the MLHG on the MLHG form (5110 Record).

If GROUP/FACILITY TYPE is "ATTG" then GROUP NO/GROUP NAME must match with the GROUP NUMBER with MEASUREMENT TYPE of "ATTGP" on MEASPDF form (5615 Record).

If GROUP/FACILITY TYPE is "IDPG" then GROUP NO/GROUP NAME must match with the NAME with MEASUREMENT TYPE of "IDGP" on the MEASPDF form.

If GROUP/FACILITY TYPE is "MLHG" then GROUP NO/GROUP NAME must match with the GROUP NUMBER with MEASUREMENT TYPE of "MLHGP" on the MEASPDF form.

If GROUP/FACILITY TYPE is "TERMG" then:

- For 5E6 only, BCID and GROUP NO / GROUP NAME must match the BCID and GROUP ID on a TGATTD form (5611 record).
- GROUP NO / GROUP NAME must match the GROUP NUMBER with MEASUREMENT TYPE of "TERMGP" on the MEASPDF form.
- For 5E7 and later, the GROUP NO / GROUP NAME must match a GROUP ID on the TGSRLPA, TGSRMPA, TGSRTPA, or BFG form, or on the TGSRFD form if none of the other forms exist.

2.5 * GROUP NO/GROUP NAME

Description: This entry is either the group name or group number depending upon the group entered.

Required Field.

Valid GROUP NO/GROUP NAME Entries 5E11 and Earlier

Entry	Definition
1 - 65535	GROUP NUMBER
1 - 8 characters	GROUP NAME

Valid GROUP NO/GROUP NAME Entries 5E12 through 5E14

Facility Type	Entry	Definition
ARSG, IDPG,AUTH, ACCT, or MDR	1 - 8 character	GROUP NAME
TOD	1 - 11 character	GROUP NAME
TERMG	1 - 65535	GROUP NUMBER
ARSPAT	1 - 4095	GROUP NUMBER
TRKG	1 - 4000	GROUP NUMBER
All Others	1 - 2000	GROUP NUMBER

Valid GROUP NO/GROUP NAME Entries 5E15 and Later

Facility Type	Entry	Definition
ARSG, IDPG,AUTH, ACCT, and MDR	1 - 8 character	GROUP NAME
TOD	1 - 11 character	GROUP NAME
TERMG	1 - 65535	GROUP NUMBER
ARSPAT	1 - 4095	GROUP NUMBER
TRKG and MQT	1 - 4000	GROUP NUMBER
MQSF and SFG	1 - 2000	GROUP NUMBER
All Others	1 - 8191	GROUP NUMBER

Data Rules:

If GROUP/FACILITY TYPE is "TERMG" then the GROUP NUMBER must be in 1-65535. For 5E10 and earlier, if GROUP/FACILITY TYPE is "ACCT" "ARSG", "AUTH", "IDPG", "MDR", "TERMG", or "TOD", then GROUP NUMBER must be 1 to 65535.

For 5E11, when GROUP/FACILITY TYPE is "MQSF" or "SFG", GROUP NO/GROUP NAME must be 1 - 2000.

For 5E15 and later, when GROUP/FACILITY TYPE is "ATTG", "MLHGAC", "MLHGQC", "MQMLHG", or "MLHG", GROUP NO/GROUP NAME must be 1 - 2000.

For 5E11, when GROUP/FACILITY TYPE is "MQT" or "TRKG", GROUP NO/GROUP NAME must be 1 - 4000.

If GROUP/FACILITY TYPE is "ARSPAT", then GROUP NUMBER must be in 1 - 3617.

For 5E11 and later, if GROUP/FACILITY Type is "MLHGAC" or "MLHGQC", then GROUP NUMBER must correspond to an MLHG on the MLHG form (5110 Record). The corresponding MLHG FEATURE on the MLHG form must be defined on the MLHGFD (5604 Record) such that HUNT TYPE is "ISAT".

For all other Types, GROUP NAME must be 1 to 8 characters.

2.6 # AUTOMATIC CIRCUIT ASSURANCE USE

Description: Will traffic and trunk measurements pertaining to private features and facilities be used?

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

Data Rules:

If this entry is "Y", then GROUP/FACILITY must be "TRKG".

If this entry is "Y", then BCID and AP SITE ID must be defined on the APCA form (5620-1 Record) with AUTOMATIC CIRCUIT ASSURANCE USE set to "Y".

The ACA (Automatic Circuit Assurance) feature must not be assigned to an Announcement Trunk. When AUTOMATIC CIRCUIT ASSURANCE USE is entered as "Y", the GROUP NO entered on the APGFP form must be defined on a TKGRP form (5202 Record) as TGN, and the associated TRKCLS must not be entered as "RAFANNC", "RAFDTA", or "RAFCTR" on the TKGRP form.

2.7 # NUTS/LUTS ACTIVE

Description: Is the NUTS/LUTS (Non-Usage Trunk Scan/Locked-Up Trunk Scan) scanning activated on this trunk group?

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

Data Rules:

If this entry is set to "Y", then AUTOMATIC CIRCUIT ASSURANCE USE must be set to "Y".

If this entry is set to "Y", then GROUP/FACILITY must be "TRKG".

2.8 # SHT ACTIVE

Description: Is Short Holding Threshold active?

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

Data Rules:

If this entry is set to "Y", then AUTOMATIC CIRCUIT ASSURANCE USE must be set to "Y".

If this entry is set to "Y", then GROUP/FACILITY must be "TRKG".

2.9 # LHT ACTIVE

Description: Is Long Holding Threshold active?

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

Data Rules:

If this entry is set to "Y", then AUTOMATIC CIRCUIT ASSURANCE USE must be set to "Y".

If this entry is set to "Y", then GROUP/FACILITY must be "TRKG."

2.10 # SHT THRESHOLD

Description: Enter the short holding time threshold value from 0 to 160 seconds, by increments of 2 seconds.

Required Field.
Default: 0
Valid Entries: 0 - 160 (seconds) in increments of 2

Data Rules:

If this entry is greater than 0, then SHT ACTIVE must be "Y".

2.11 # SHT CALL THRESHOLD COUNT

Description: Enter the short holding time call count threshold, by increments of 2 calls.

Required Field.
Default: 0
Valid Entries: 0 - 30 in increments of 2

Data Rules:

If this entry is greater than 0, then SHT ACTIVE must be "Y".

2.12 # LHT THRESHOLD

Description: Enter the long holding time threshold value in hours, by increments of 1 hour.

Required Field.
Default: 0

Valid Entries: 1 - 10 (hours)

If this entry is greater than 0, then LHT ACTIVE must be "Y".

2.13 # TRAFFIC DATA TO CUST LOC USE

Description: Should traffic data measurement reports be sent to customer location?

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

Data Rules:

If this entry is "Y", then BCID and AP SITE ID must be defined on the APCA (5620-1 Record) with TRAFFIC DATA TO CUST LOC USE set to "Y".

2.14 # MEASUREMENT ACTIVE

Description: Will traffic measurements for this group be sent to the AP?

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

Data Rules:

This entry can be "Y" only if TRAFFIC DATA TO CUST LOC USE is set to "Y".

If this entry is "Y", then BCID and AP SITE ID must be defined on the APCA (5620-1 Record) with TRAFFIC DATA TO CUST LOC USE set to "Y".

2.15 # FACILITIES MANAGEMENT USE

Description: Will this feature allow the customer to manipulate the data for the various features listed on the APFMA form (5620-3 Record)?

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

Data Rules:

If this entry is "Y", then BCID and AP SITE ID must be defined on the APFMA form (5620-3 Record).

If this entry is "Y", then BCID and AP SITE ID must be defined on the APGFP form (5620-1 Record) with FACILITIES MANAGEMENT USE set to "Y".

```
 *1. BCID                            00055
 *2. AP SITE ID                      055
 *3. GROUP/FACILITY TYPE             ATTG
 *4. GROUP NO/GROUP NAME             00000001


 #5. AUTOMATIC CIRCUIT ASSURANCE USE  N   #12. TRAFFIC DATA TO CUST LOC USE  Y
 #6. NUTS/LUTS ACTIVE                 N   #13. MEASUREMENT ACTIVE            N
 #7. SHT ACTIVE                       N
 #8. LHT ACTIVE                       N   #14. FACILITIES MANAGEMENT USE     N
 #9. SHT THRESHOLD                    000
#10. SHT CALL THRESHOLD COUNT         00
#11. LHT THRESHOLD                    00
```

Figure 1 SAMPLE APGFP FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
apgfp                            5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5620-2)        APPLICATION PROCESSOR GROUP/FACILITY PARAMETERS

*1. BCID                ______               12. TRAFFIC DATA TO CUST LOC USE N
*2. AP SITE ID          ___                  13. MEASUREMENT ACTIVE           N
*3. GROUP/FACILITY TYPE _______
*4. GROUP NO/GROUP NAME ___________          14. FACILITIES MANAGEMENT USE N

 5. AUTOMATIC CIRCUIT ASSURANCE USE N
 6. NUTS/LUTS ACTIVE                N
 7. SHT ACTIVE                      N
 8. LHT ACTIVE                      N
 9. SHT THRESHOLD                   000
10. SHT CALL THRESHOLD COUNT        00
11. LHT THRESHOLD                   00
```

Figure 2 SAMPLE APGFP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 21C: 5620-3 RECORD APPLICATION PROCESSOR FACILITIES MANAGEMENT ASSIGNMENT FORM - APFMA

1. GENERAL

The 5620-3 Record is available with 5E3 and later Software Releases. This is a BRCS (Business and Residence Custom Services) Capability.

The private network or business customer is given some administrative control over certain assignable features. The 5620-3 Record is used by the switch owner to define which features a particular customer can control.

These features are:

- AC (Authorization Codes)
- ACCT (Account Codes)
- MQ (Modular Queuing)
- ARS (Automatic Route Selection)
- ACA (Automatic Circuit Assurance)
- TDCL (Traffic Data to Customer Location)
- MDR (Message Detail Recording)
- TOD (Time of Day)

1.1 Recent Change View

The corresponding Recent Change view for this form is 24.5.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * BCID

Description: Enter the Business Customer Identification number.

Required Field.
Valid Entries: 1 - 65535

2.3 * AP SITE ID

Description: Enter the Application Processor Site Identification number. This identifies the AP to which the measurements are to be sent.

Required Field.
Valid Entries: 1 - 255

Data Rules:

Each BCID and AP SITE ID must have a matching BCID and AP SITE ID on the APGFP form (5620-2 Record).

2.4 # AUTOMATIC ROUTE SELECTION

Description: Is Automatic Route Selection administration and control allowed?

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

2.5 # AUTOMATIC CIRCUIT ASSURANCE

Description: Is Automatic Circuit Assurance administration and control allowed?

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

2.6 # AUTHORIZATION CODES

Description: Is Authorization Code administration and control allowed?

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

2.7 # ACCOUNT CODES

Description: Is Account Code administration and control allowed?

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

2.8 # MESSAGE DETAIL RECORDING

Description: Is Message Detail Recording administration and control allowed?

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

2.9 # MODULAR QUEUING

Description: Is Modular Queuing administration and control allowed?

Required Field.

Default: N
Valid Entries: Y, N

2.10 # TRAFFIC DATA TO CUST LOC

Description: Is Traffic Data to Customer Location administration and control allowed?

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

2.11 # TIME OF DAY

Description: Is Time of Day administration and control allowed?

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

2.12 # MAXIMUM SESSIONS

Description: This indicates the maximum number of simultaneous sessions allowed per BCID.

Required Field.
Default: 1
Valid Entries: 1 - 4

2.13 # TIME OUT

Description: This indicates the automatic FM session termination when no action is seen within the specified time.

Required Field.
Default: 60
Valid Entries: 2 - 120 (minutes)

2.14 # ACSR

Description: Is ACSR (Automatic Customer Station Rearrangement) administration and control allowed?

Currently, the AT&T Application Processor does not support this application. However, other vendors may support it.

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

```
*1. BCID            00055
*2. AP SITE ID      055

#3. AUTOMATIC ROUTE SELECTION   N       #8. MODULAR QUEUING           N
#4. AUTOMATIC CIRCUIT ASSURANCE N       #9. TRAFFIC DATA TO CUST LOC  N
#5. AUTHORIZATION CODES         N       #10. TIME OF DAY              N
#6. ACCOUNT CODES               N       #11. MAXIMUM SESSIONS         1
#7. MESSAGE DETAIL RECORDING    N       #12. TIME OUT                 060
                                        #13. ACSR                     N
```

Figure 1 SAMPLE APFMA FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 21D: 5620-4 RECORD
100 SECOND SCAN (HSS) ACTIVATION FORM - APHSS

1. GENERAL

The 5620-4 Record is available with 5E4(2) and later Software Releases. The APHSS form is used to define if the HSS (100 Second Scan) feature is activated. For 5E5 and earlier Software Releases, the HSS feature collects usage data on a switching module basis for Leased Network trunk groups. For 5E6 and later, it is expanded to collect usage data on MLHGs, i.e., the number of lines busy within the MLHG.

The HSS capability allows the 5ESS Switch to serve as a switch in a leased network.

Leased network services provide customers with a variety of call processing features as well as centralized NM (Network Management) capabilities.

They are tailored for large business customers and provide dedicated networks to interconnect customer locations and the PSN (Public Switched Network).

HSS is an NM feature which allows customers to monitor the call load on their networks. Information provided from the HSS feature is useful to the customer for the administration and engineering of their private networks.

The HSS capability is responsible for collecting usage data for leased network trunk groups and ISDN BRI (Basic Rate Interface) Multi-Line Hunt Groups every 100 seconds, and sending it to the leased network OS (Operational Support System) via an API (Application Processor Interface).

1.1 Recent Change View

The corresponding Recent Change view for this form is 24.12.

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 * GROUP TYPE

Description: Enter the group type to be scanned by the HSS feature.

Required Field.
Default: TRKG
Valid Entries:

Valid GROUP TYPE Entries

Entry	Definition
TRKG	Trunk Groups
MLHG	Software Release: 5E6 and later. Multi-Line Hunt Groups

2.3 * GROUP NBR

Description: Enter the number of the trunk group or MLHG to be scanned by the HSS feature.

Required Field.

Valid Entries:

For 5E10 and earlier: 1 - 2000
For 5E11 and later for TRKG: 1 - 4000
For 5E11 through 5E14 for MLHG: 1 - 2000
For 5E15 and later for MLHG: 1 - 8191

Data Rules:

For 5E11 through 5E14, when GROUP TYPE is "MLHG", GROUP NBR must be 1 through 2000.

For 5E15 and later, when GROUP TYPE is "MLHG", GROUP NBR must be 1 through 8191.

When GROUP TYPE is "TRKG", GROUP NBR must be defined as a TGN on a TKGRP form (5202 Record) with TRK DIR equal to "OUT", "INC" or "2W". The Trunk Group must also have at least one TRUNK form with a TEN, DEN, or NEN defined.

When GROUP TYPE is "MLHG", GROUP NBR must be defined on the MLHG form (5110 Record) and LOCAL SM must be entered. That is, the MLHG must be a local Multi-Line Hunt Group whose members are all located on the same Switching Module.

2.4 # BCID

Deswcription: Enter a Business Customer Identification.

Required Field.

Data Rules:
The BCID/AP SITE ID values entered must also be defined on the APCA form.

2.5 # AP SITE ID

Description: Enter the Application Processor Site Identification number. This identifies the AP to which the measurements are to be sent.

Required Field.
Valid Entries: 1 - 255

Data Rules:

The AP SITE ID entered here should have a matching AP SITE ID on the DSLAP form (5963 Record).

2.6 # HSS ACTIVE

Description: Is the HSS feature activated on this trunk group or MLHG?

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

```
                     AP EPSCS 100 SECOND SCAN ACTIVATION

*1. GROUP TYPE TRKG
*2. GROUP NBR  0020
#3. BCID       00025
#4. AP SITE ID 002
#5. HSS ACTIVE Y
```

Figure 1 SAMPLE APHSS FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 22: MULTISWITCH BUSINESS GROUP FORMS

SEC. 22A: 5633 RECORD
MULTISWITCH BUSINESS GROUP - MBG

1. GENERAL

The 5633 Record is available with 5E9(2) and later Software Releases. The MBG (Multiswitch Business Group) form defines the data associated with an MBG and the following features:

- CN (CENTREX Network) provides the ability to define a CENTREX group on multiple switches and have CENTREX group features operate across switches.
- CN ISVM (CENTREX Network Interswitch Voice Messaging) provides for the centralized MSS (Mail Service System) for CN MBG customers.
- CN-S (CENTREX Network Special) provides requirements needed by the federal government's DTS-W (Defense Telecommunications System - Washington).

All three of the above are secured features and must be purchased before the feature can be assigned.

The secured feature IDs are as follows:
CN SFID181
CN ISVM SFID182
CN-S SFID183

These features can be assigned to an MBG on this form, if the SFID ACT field for the specific feature has been set to "Y" on the SFSYS form (5713-1 Record).

For more information on these secured features, see Division 2, Section 4A181, Division 2, Section 4A182, and Division 2, Section 4A183.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.12.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MBG ID

Description: Enter the MBG ID (Multiswitch Business Group Identifier). The MBG ID uniquely identifies a Multiswitch Business Group on a switch wide basis and implicitly defines a CENTREX Network.

Required Field.
Valid Entries: 2 - 65535

Data Rules:

The MBG form is used by the CENTREX Network feature to define a CENTREX Network. It is a Secured

Feature that must be purchased by the office before CENTREX Network data can be entered on this form. Therefore, the ACT field for SFID 181 on the SFSYS form (5713-1 Record) must be set to "Y".

2.3 # TGID

Description: Enter the Terminal Group Identifier. The TGID identifies the terminal group associated with the MBG. All terminals in the terminal group are associated with the MBG if the terminal group is associated with the MBG.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

The TGID must be defined on either the TGSRFD, TGSRLPA, TGSRMPA, TGSRTPA or BFG form.

The TGID cannot be entered on more than one MBG form.

2.4 CNS

Description: Is the CENTREX Network Special feature for Government Screening active for the MBG?

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

Data Rules:

CN-S is a Secured Feature that must be purchased by the office before CNS can be set to "Y". The ACT for SFID 183 must be set to "Y" on the SFSYS form (5713-1 Record) before "Y" can be entered in the CNS field.

2.5 CNISVM

Description: Is the CENTREX Network for ISVM feature active?

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

Data Rules:

If "Y" is entered, then BCID must be entered. If "N" is entered, then BCID cannot be entered.

The CN ISVM (CENTREX Network Interswitch Voice Mail) feature is a Secured Feature that must be purchased by the office before CNISVM can be set to "Y". The ACT field for SFID 182 on the SFSYS form (5713-1 Record) must be set to "Y", before "Y" can be entered in this field.

2.6 BCID

Description: Enter the BCID (Business Customer Identifier), which is used to send an incoming MBG call to the appropriate voice mail service. This field is used in conjunction with the CN ISVM feature.
Valid Entries: 1 - 65535

Data Rules:

If CNISVM is "Y", then BCID must be entered. If CNISVM is "N", BCID must not be entered.

2.7 PP DISP ONLY

Description: Should the PP (Precedence and Preemption) Display only be used for all calls? The PP format is used for display on an ISAT terminal when a PP feature is assigned to that terminal. If "Y" is entered, then the PP display is used for all calls. If "N" is entered, only PP calls will use the PP display.

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

2.8 CAMPON CWO

Description: Enter the Camp-on CWO (Call Waiting Originating) feature to be used for ISAT invoked camp-on for an MBGE (Multiswitch Business Group Element). The specified CWO feature applies the call waiting tone to an incoming ISUP7 MBG call.

Required Field.
Default: /CWO
Valid Entries: 1 - 8 characters

Data Rules:

The CWO feature entered must be a preconstructed feature or it must be constructed on the CWTFD form (5603-1 Record). The specified CWO feature must also have the INVOCATION field set to "ORIG" on the CWTFD form.

2.9 CAMPON CWD

Description: Enter the Camp-on CWD (Call Waiting Dialed) feature name used for ISAT invoked camp-on for MBGE. The CWD feature applies the call waiting tone to an incoming ISUP7 MBG call.

Required Field.
Default: /CWD
Valid Entries: 1 - 8 characters

Data Rules:

The CWD feature must be a preconstructed feature or must be constructed on the CWTFD form (5603-1 Record). The CWD feature must also have the INVOCATION field set to "CODE" on the CWTFD form.

2.10 NAME

Description: Enter the network name to be associated with the MBG ID. The name should identify the company name associated with the MBG ID.
Valid Entries: 1 - 8 characters

```
*1. MBG ID        ______
#2. TGID          ______
 3. CNS           N
 4. CNISVM        N
 5. BCID          ______
 6. PP DISP ONLY  Y
 7. CAMPON CWO    /CWO
 8. CAMPON CWD    /CWD
 9. NAME          _________
```

Figure 1 SAMPLE MBG FORM 5E9(2) AND LATER SOFTWARE RELEASES

SEC. 24: ACCOUNT CODE FORMS

SEC. 24A: 5623-1 RECORD
ACCOUNT CODE FEATURE DEFINITION FORM - ACCTFD

1. GENERAL

The 5623-1 Record is available with 5E3 and later Software Releases. It is used to define the various combination of options associated with Account Codes.

1.1 ACCT Capabilities

The ACCT (Account Code) capability allows a customer to include an account number in AMA (Automatic Message Accounting) records, and in MDR (Message Detail Recording) records to the Revenue Accounting office or to customer location. An ACCT is entered as part of the dialing sequence and may be included with the information on the customer's bill. This provides a customer with a mechanism for cost allocation of incoming and outgoing calls, by associating a particular call with a specific customer business account. See Figure 2 for Account Code Dialing Sequence.

1.2 ACCT Requirements

Each terminal (line or trunk) which is to use the ACCT capability must be assigned an ACCT feature name (defined on this form) on the appropriate feature assignment form, LINEFA, MLHLNFA, TKGRPFA, TRUNKFA. In addition, each terminal must be assigned to an ACCT Group which may be defined as a default parameter of the ACCTFD form, or on an individual terminal basis with the "ACCTLPA, ACCTMPA, ACCTTPA forms.

An Account Code Group defines the account code length, routing or private facility access code association prompt treatment and error treatment for all lines using that group.

Each terminal may also be assigned to an ACCT Code Association table, defined on the ACCTRTP form (5623-3 Record).

Lines assigned to ACCT features must have an associated Class of Service on the LCC form of "ATND", "INDIV", "ISDN", "ISATND", "PBX" or "4WINDIV".

Certain Account Code features are predefined and automatically provided in the ODA database at the time of office registration. These are called preconstructed features. Preconstructed feature names all start with a (/) and the slash may not be used as the first character of any feature name other than preconstructed features. A list of the preconstructed Account Code features is contained in Figure 1 .

1.3 Recent Change View

The corresponding Recent Change View for this form is 12.42.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 *FEATURE NAME

Description: Enter the Account Code Feature Name. The first character may not be a slash (/). Feature

names starting with a slash are reserved for preconstructed features.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.8) specify feature options for the Account Code Feature.

2.4 ACT TYPE

Description: Can the ACCT feature be activated by the customer?

Required Field.
Default: AUTO
Valid Entries:

Valid ACT TYPE Entries

Entry	Definition
AUTO	Used to indicate no customer activation. Upon assignment the feature is made active and is ready to be used.
CODE	The ACCT feature is activated by dialing a code.

Data Rules:

If ACT TYPE is "CODE", then DACT TYPE must be "CODE". If ACT TYPE is "AUTO", then DACT TYPE must be "NONE".

If ACT TYPE is "CODE", and this feature is assigned to a line/trunk, then the line/trunk must be assigned at least one dialed code (on the PDIT and/or IDPDCA Form) with ACTION equal to "ACCTACT", and a FEATURE associated with the dialed code on the PDIT/IDPDCA form equal to this ACCT feature.

2.5 DACT TYPE

Description: Can the subscriber assigned this feature deactivate the feature?

Required Field.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
NONE	Used to indicate no customer deactivation is allowed. The feature can never be deactivated from the customer's station.
CODE	The ACCT feature is deactivated by dialing a code.

Data Rules:

If DACT TYPE is "CODE", then ACT TYPE must be "CODE". If DACT TYPE is "NONE", then ACT TYPE must be "AUTO".

If DACT TYPE is "CODE", and this feature is assigned to a line/trunk, then the line/trunk must be assigned at least one dialed code (on the PDIT and/or IDPDCA Form) with ACTION equal to "ACCTDCT", and a FEATURE associated with the dialed code on the PDIT/IDPDCA Form equal to this ACCT feature.

2.6 AMA LENGTH

Description: Will a 15-character Account Code or an 8-digit CDAR (Customer Dialed Account Recording) be included in the AMA structure code? If an 8 is entered, a 2 followed by the CDAR will be placed in the AMA record. If a 15 is entered, an 8 followed by the Account Code will be placed in the AMA record.

Required Field.
Default: 8
Valid Entries: 8, 15

Data Rules:

In a DSN office (DSN OPT = "Y" on the OFCOPT form (5509 Record)) if the AMA LENGTH is 15, then the ACCT LENGTH field on the ACCTGP form (5623-2 Record) must be less than or equal to 14. If the AMA LENGTH is 8, then the ACCT LENGTH must be less than or equal to 7.

2.7 CODE ASSOC ALW

Description: Can a dialable sequence be associated with an ACCT use code?

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

Data Rules:

If CODE ASSOC ALW is "N", then CODE TABLE NAME must be blank.

2.8 PARM ACT TYPE

Description: Can the active parameter set defined on the ACCTGP form (5623-2 Record) be changed via a dialed code?

Required Field.

Default Values: AUTO

Valid PARM ACT Entries

Entry	Definition
AUTO	The ACCT feature active parameter set defined on the ACCTGP form (5623-2 Record) cannot be changed via a dialed code.
CODE	The ACCT feature active parameter set defined on the ACCTGP form (5623-2 Record) can be changed from main to alternate or alternate to main via a dialed code.

Data Rules:

If PARM ACT TYPE is "CODE", and this feature is assigned to a line/trunk, then the line/trunk must be assigned at least one dialed code (on the PDIT and/or IDPDCA Form) with ACTION equal to "MAINACT" and one with ACTION equal to "ALTACT", and a FEATURE associated with the dialed code on the PDIT/IDPDCA Form equal to this ACCT feature.

DEFAULT PARAMETERS

The following fields (Section 2.9 - Section 2.10) define the default parameters assigned with the feature to terminals (lines or trunks). These parameters will be assigned to the terminal unless they are overriden by entries on the ACCTLPA, ACCTMPA, ACCTTPA Forms.

2.9 #ACCT GROUP NAME

Description: Enter the name of the ACCT Group. The name may be from 1 - 8 characters, with no restrictions on the valid characters. The name entered here must be that of an ACCT Group defined on an ACCTGP form (5623-2 Record).

Required Field.
Valid Entries: 1 - 8 characters

2.10 #CODE TABLE NAME

Description: This field is used to identify the ACCT associated code table name for the port. The name may be from 1 to 8 characters, with no restrictions on the valid characters.
Valid Entries: 1 - 8 characters

Data Rules:

If a CODE TABLE NAME is entered here, then an ACCTRTP form (5623-3 Record), must be entered for this CODE TABLE NAME. If CODE ASSOC ALW is "N", then CODE TABLE NAME must be left blank.

ESS 5623-1(05/92)TG-5 ACCOUNT CODE DATE ___________
FEATURE DEFINITION RECORD
ACCTFD 5ESS SWITCH
12.42
BASE______CONT GR____ 5ESS UNIT ___________________

FEATURE NAME	FEATURE OPTIONS					DEFAULT PARAMETERS		REMARKS
	ACT TYPE	DACT TYPE	AMA LENGTH	CODE ASSOC ALW	PARM ACT TYPE	ACCT GROUP NAME	CODE TABLE NAME	
/ACCTETS	AUTO	NONE	8	N	AUTO			ETS ACCOUNT CODE FEATURE
/ACCTDLX	CODE	CODE	15	Y	CODE			ACCOUNT CODE DELUXE
/AC*	AUTO	NONE	8	N	AUTO			WILDCARD ACCT FEATURE

Figure 1 PRECONSTRUCTED ACCT FEATURES

FUNCTION	DIALING SEQUENCE
Individual Station Call	Dial Tone
	Account Code Access Code
	ACCT Prompt**
	Account Code
	Dial Tone
	Called Number*
Outgoing Attendant Call	Dial Tone
	Account Code Access Code

	ACCT Prompt**
	Account Code
	Dial Tone
	Called Number*
Incoming Attendant Call	Answer Incoming Call
	Flash
	Dial Tone
	Account Code Access Code
	ACCT Prompt**
	Account Code
	Dial Tone
	Called Number*
Senderized Tie Trunk Call	Dial Tone
	Account Code Access Code
	ACCT Prompt**
	Account Code
	Dial Tone
	Tie Trunk Access Code
	Dial Tone
	Called Number*
Nonsenderized Tie Trunk Call	Dial Tone
	Dial Tone
	Tie Trunk Access Code
	Dial Tone
	ACCT Code Access Code
	ACCT Prompt**
	ACCT Code
	Dial Tone
	Called Number
Call Restricted Without an Account Code	Dial Tone
	Called Number
	ACCT Pompt
	Account Code
Activation	Dial Tone
	Control Code
	Confirmation Tone
Deactivation	Dial Tone
	Control Code
	Confirmation Tone

* For example, private network number, DDD number or feature activation.
** ACCT Prompt can be 1, 2, or 3 beeps, dial tone, or no tone.

Figure 2 ACCOUNT CODE DIALING SEQUENCE

```
acctfd                          5ESS Switch            _
(5623-1)                  OFFICE DATA ADMINISTRATION
                        ACCOUNT CODE FEATURE DEFINITION




* 2. FEATURE NAME  ACCTDLX1        3. REMARKS  ________________________________


  FEATURE OPTIONS:                DEFAULT PARAMETERS:
  4. ACT TYPE       CODE           9. ACCT GROUP NAME    ________
  5. DACT TYPE      CODE          10. CODE TABLE NAME    ________
  6. AMA LENGTH     15
  7. CODE ASSOC ALW Y
```

```
8. PARM ACT TYPE  AUTO
```

Figure 3 SAMPLE ACCTFD FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 24B: 5623-2 RECORD
ACCOUNT CODE GROUP DEFINITION FORM - ACCTGP

1. GENERAL

The 5623-2 Record is available with 5E3 and later Software Releases. It is used to define the group level of information required for the Account Code capability.

Each terminal (line or trunk) which is to use the ACCT capability must be assigned an ACCT feature name (defined on the ACCTFD form, 5623-1 Record) on the appropriate feature assignment form, LINEFA, MLHLNFA, TKGRPFA, TRUNKFA. In addition, each terminal must be assigned to an ACCT Group which may be defined as a default parameter of the ACCTFD form, or on an individual terminal basis with the ACCTLPA, ACCTMPA, ACCTTPA forms.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.21.

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 *ACCT GROUP NAME

Description: Enter the name of the ACCT Group. There are no restrictions on the valid characters.

Required Field.
Valid Entries: 1 - 8 characters

2.3 ACCT LENGTH

Description: Enter the length of the Account code(s) assigned to this group. All Account codes for an ACCT GROUP must be the same length.

Required Field.
Valid Entries: 1 - 15

2.4 ACTIVE PARM SET

Description: Enter whether the main or alternate parameter set is active.

Required Field.
Default: M
Valid Entries:

Valid ACTIVE PARM SET Entries

Entry	Definition
M	Main
A	Alternate

2.5 TOD INHIBIT

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Description: Should the Time of Day schedules be temporarily deactivated? Enter "Y" to inhibit TOD.

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

2.6 TOLL SI

Description: Enter the Toll Screening Index to override toll diversion to an attendant. For more information about this field, see Division 2, Section 4C28, which describes the "Account Code - Toll Diversion to an Attendant/DPAT" transparency feature.

Software Release: 5E9(1) and later.
Valid Entries: 1 - 4095

Data Rules:

When TOLL SI is blank, RAX and CODE RESTRICT must be 0.

2.7 DPAT OVRD

Description: Should DPAT (Dialing Plan Access Treatment) restrictions be overridden? For more information about this field, see Division 2, Section 4C28, which describes the "Account Code - Toll Diversion to an Attendant/DPAT" transparency feature.

Software Release: 5E9(1) and later.
Default: N
Valid Entries: Y, N

2.8 TOLL RAX

Description: This field indicates the rate center that is used to override a toll diversion to an attendant.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.9 TOLL CODE RESTRICT

Description: This field indicates the Toll Code Restriction to be used to override the line's code restriction associated with a toll diversion to an attendant.

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

PARAMETERS MAIN/ALTERNATE

Both a MAIN and ALTERNATE parameter set must be defined for each ACCT group. The ACTIVE PARM SET field will determine which set is active for this ACCT group. Only one parameter set can be active at a given time. Use the following fields (Section 2.10 - Section 2.18) to define both a MAIN and an ALTERNATE PARAMETER set.

2.10 AMA RECORD

Description: Is the dialed ACCT stored in the AMA record(s) made for the call?

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

Data Rules:

If AMA RECORD is "N", then MDR RECORD must be "Y".

2.11 MDR RECORD

Description: Is the dialed ACCT stored in the MDR record(s) made for the call?

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

Data Rules:

If MDR RECORD is "N", then AMA RECORD must be "Y".

2.12 AMA REQUIRED

Description: Does dialing an ACCT force an AMA record for a call that is not normally recorded?

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

Data Rules:

If AMA REQUIRED is "Y", then AMA RECORD must be "Y".

2.13 MDR REQUIRED

Description: Does dialing an ACCT force an MDR record for a call that is not normally recorded?

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

Data Rules:

If MDR REQUIRED is "Y", then MDR RECORD must be "Y".

2.14 AMA RESTRICT

Description: Are AMA recorded calls restricted if dialed without an ACCT?

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

Data Rules:

This parameter must be "N" for both MAIN and ALTERNATE parameter sets for those terminals assigned a Precedence and Preemption Feature in addition to an Account Code Feature.

2.15 MDR RESTRICT

Description: Are MDR recorded calls restricted if dialed without an ACCT?

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

This parameter must be "N" for both MAIN and ALTERNATE parameter sets for those terminals assigned a Precedence and Preemption Feature in addition to an Account Code Feature.

2.16 RESTRICT TRT

Description: Enter the error treatment to be given for AMA or MDR restricted calls which fail because an ACCT code was not dialed or an incorrect ACCT code was dialed.

Required Field.
Default: REORD
Valid Entries:

Valid RESTRICT TRT Entries

Entry	Definition
REORD	Reorder
ANNC	Announcement

Data Rules:

If this field is "ANNC", then ANNC INDEX must be known.

2.17 ANNC INDEX

Description: Enter the Announcement Route Index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: 1 - 16382

Data Rules:

If RESTRICT TRT is "ANNC", then an ANNC INDEX must be entered. If RESTRICT TRT is not "ANNC", then ANNC INDEX must be blank. This ANNC INDEX must be defined on the RTIDX form with a Route Type of "HUNT".

2.18 ACCT PROMPT

Description: Enter the type of prompt that will be given to the user to indicate that the Account Code should be entered.

Required Field.

Default: DIAL
Valid Entries:

Valid ACCT PROMPT Entries

Entry	Definition
BEEP1	One Beep
BEEP2	Two Beeps
BEEP3	Three Beeps
DIAL	Dial Tone
NONE	No Tone

```
acctgp                           5ESS Switch
(5623-2)                  OFFICE DATA ADMINISTRATION
                        ACCOUNT CODE GROUP PARAMETERS

*1. ACCT GROUP NAME ________           PARAMETERS     MAIN       ALTERNATE
 2. ACCT LENGTH     01
 3. ACTIVE PARM SET M                  AMA RECORD     7. Y       16. Y
 4. TOD INHIBIT     N                  MDR RECORD     8. N       17. N
 5. TOLL SI         ____               AMA REQUIRED   9. N       18. N
 6. DPAT OVRD       N                  MDR REQUIRED  10. N       19. N
                                       AMA RESTRICT  11. N       20. N
                                       MDR RESTRICT  12. N       21. N
                                       RESTRICT TRT  13. REORD   22. REORD
                                       ANNC INDEX    14. ____    23. ____
                                       ACCT PROMPT   15. BEEP1   24. BEEP1
```

Figure 1 SAMPLE ACCTGP FORM 5E16(1) AND EARLIER SOFTWARE RELEASES

```
acctgp                            5ESS Switch            _
                          OFFICE DATA ADMINISTRATION
(5623-2)                 ACCOUNT CODE GROUP PARAMETERS

*1. ACCT GROUP NAME    ________      PARAMETERS     MAIN       ALTERNATE
 2. ACCT LENGTH        01          AMA RECORD     7. Y        18.  Y
 3. ACTIVE PARM SET    M           MDR RECORD     8. N        19.  N
 4. TOD INHIBIT        N           AMA REQUIRED   9. N        20.  N
 5. TOLL SI            ____        MDR REQUIRED  10. N        21.  N
 6. DPAT OVRD          N           AMA RESTRICT  11. N        22.  N
 7. TOLL RAX           ___         MDR RESTRICT  12. N        23.  N
 8. TOLL CODE RESTRICT ___         RESTRICT TRT  13. REORD    24.  REORD
                                   ANNC INDEX    14. _____    25.  _____
                                   ACCT PROMPT   15. BEEP1    26.  BEEP1
```

Figure 2 SAMPLE ACCTGP FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 24C: 5623-3 RECORD
ACCOUNT CODE ASSOCIATED CODE TABLE PARAMETERS FORM - ACCTRTP

1. GENERAL

The 5623-3 Record is available with 5E3 and later Software Releases. It is used to define the code sequence associated with an ACCT (Account Code) use code for a particular code association table.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.22.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 *CODE TABLE NAME

Description: Enter the Code Table Name.
Valid Entries: 1 - 8 characters

3. CODE ASSOCIATIONS

3.1 USE CODE

Description: Enter the unique ACCT use code.
Valid Entries:
5E5 and earlier: 1 - 9, # or *
5E6 and later: 1 - 9, # or *

Data Rules:

For each USE CODE entered there must be a corresponding CODE SEQ.

If USE CODE is known, then the associated line/trunk (from the ACCTLPA, ACCTMPA, or ACCTTPA form) must have at least one dialed coded (on the PDIT and/or IDPDCA form) with ACTION equal to "ACCTUSE" and a FEATURE associated with the dialed code on the PDIT/IDPDCA form equal to this ACCT feature (from the associated ACCTMPA or ACCTTPA form).

3.2 CODE SEQ

Description: Enter the code sequence. The sequence of digits must be a complete dialable sequence of no more than 10 characters. The sequence can be a TN (Telephone Number), 10XXX, feature code, routing information, ect. Multiple sequences can be stored within the 10 characters if the sequences are complete. An ARS (Automatic Route Service) use code followed by only 3 digits of a 7-digit TN is not allowed.
Valid Entries:
5E5 and earlier: 1 - 9, # or *
5E6 and later: 1 - 9, # or *

Examples:

83571234 - Where "8" is an ARS access code and
3571234 is the called 7-digit number.

10288 - Where 10288 is a Carrier access code.

3571234 - A 7-digit number.

9 - Escape to POTS.

Data Rules:

For each CODE SEQ entered there must be a corresponding USE CODE.

The associated code(s) must be defined on the PDIT and/or IDPDCA and/or PNDP form.

```
acctrtp                           5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5623-3)         ACCOUNT CODE ASSOCIATED CODE TABLE PARAMETERS

*1. CODE TABLE NAME ________

             2. CODE ASSOCIATIONS
ROW USE CODE CODE SEQ   ROW USE CODE CODE SEQ
 1  _______  __________   6 _______  __________
 2  _______  __________   7 _______  __________
 3  _______  __________   8 _______  __________
 4  _______  __________   9 _______  __________
 5  _______  __________  10 _______  __________
```

Figure 1 SAMPLE ACCTRTP FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 24D: 5623-4 RECORD
ACCOUNT CODE LINE PARAMETER FORM - ACCTLPA

1. GENERAL

The 5623-4 Record is available with 5E3 and later Software Releases. The ACCTLPA form is used when assigning ACCT features to non-Multi-Line Hunt lines to assign ACCT feature parameters to the lines if the default parameters of the ACCTFD form (5623-1 Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.42.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and the office name on each record.

2.2 *TN

Description: Enter the Telephone Number of the line.
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 associated Class of Service on the LCC form (5306 Record) must be:

LCC FORM Entries

Entry	Definition
ATND	50B Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.

For 5E12 and later, TN and FEATURE NAME combinations on different ACCTLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the ACCTLPA 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 *FEATURE NAME

Description: Enter the Account Code Feature Name. Feature Name may be from one to eight characters long with no restrictions on the valid characters, except that the first character may not be a slash (/). Feature Names starting with a slash are reserved for preconstructed features.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ACCT feature defined on the ACCTFD form (5623-1 Record).

2.4 ACCT GROUP NAME

Description: Enter the name of the ACCT Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ACCT Group defined on an ACCTGP form (5623-2 Record).

2.5 CODE TABLE NAME

Description: This field is used to identify the ACCT associated CODE TABLE NAME for the port.
Valid Entries: 1 - 8 characters

Data Rules:

If a CODE TABLE NAME is entered here, then an ACCTRTP form (5623-3 Record) must be entered for this CODE TABLE NAME.

If CODE ASSOC ALW defined on the associated ACCTFD form (5623-1 Record) is set to "N", then CODE TABLE NAME must be left blank.

TNs are assigned ACCT (Account Code) features with CODE TABLE NAME entered either on an ACCTLPA, ACCTFD or BFG form. The CODE TABLE NAME is defined on an ACCTRTP form with USE CODEs entered. These USE CODEs and either the specific assigned ACCT feature or the ACCT wild-card feature (/AC*) which is assigned to the line must be defined in the Individualized Dialing Plan (defined on the IDPDCA form) or the Office Dialing Plan (defined on the PDIT form) with an ACTION of "ACCTUSE".

```
acctlpa                          5ESS Switch
(5623-4)                  OFFICE DATA ADMINISTRATION
                       ACCOUNT CODE LINE (TN) PARAMETERS




* 1. TN                ________
* 2. FEATURE NAME      _________


  3. ACCT GROUP NAME   _________
  4. CODE TABLE NAME   _________
```

Figure 1 SAMPLE ACCTLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
acctlpa                           5ESS Switch           _
                          OFFICE DATA ADMINISTRATION
(5623-4)               ACCOUNT CODE LINE (TN) PARAMETERS

*1. TN           __________
*2. FEATURE NAME ________

#3. ACCT GROUP NAME ________
 4. CODE TABLE NAME ________
```

Figure 2 SAMPLE ACCTLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 24E: 5623-5 RECORD
ACCOUNT CODE LINE (MLHG/TERM) PARAMETER FORM - ACCTMPA

1. GENERAL

The 5623-5 Record is available with 5E3 and later Software Releases. The ACCTMPA form is used when assigning ACCT features to Multi-Line Hunt lines to assign ACCT parameters to the lines if the default parameters of the ACCTFD form (5623-1 Record) are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.42.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and the office name on each record.

2.2 *MLHG

Description: Enter the Multi-Line Hunt Group Number of the line.

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

2.3 *TERM

Description: Enter the Multi-Line Hunt Group Member Number of the line.

Required Field.
Valid Entries: 1-2015 and 3001-3999 (Outdial Terminals Only).

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be:

LCC FORM Entries

Entry	Definition
ATND	50B Non-Data Link Console Line or Attendant Line.
INDIV	Individual Line.
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines.
ISATND	ISDN Attendant Terminal.
PBX	Line to a PBX.
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX.

2.4 *FEATURE NAME

Description: Enter the Account Code Feature Name. Feature Name may be from one to eight characters long with no restrictions on the valid characters, except that the first character may not be a slash (/). Feature names starting with a slash are reserved for preconstructed features.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an ACCT feature defined on the ACCTFD form (5623-1 Record).

2.5 ACCT GROUP NAME

Description: Enter the name of the ACCT Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ACCT Group defined on an ACCTGP form (5623-2 Record).

2.6 CODE TABLE NAME

Description: This field is used to identify the ACCT associated code table name for the port.
Valid Entries: 1 - 8 characters

Data Rules:

If a CODE TABLE NAME is entered here, then an ACCTRTP form (5623-3 Record) must be entered for this CODE TABLE NAME.

If CODE ASSOC ALW defined on the associated ACCTFD form (5623-1 Record) is set to "N", then CODE TABLE NAME must be left blank.

MLHG/TERM (s) are assigned ACCT (Account Code) features with CODE TABLE NAME entered either on an ACCTLPA, ACCTFD or BFG form. The CODE TABLE NAME is defined on an ACCTRTP form with USE CODEs entered. These USE CODEs and either the specific assigned ACCT feature or the ACCT wild-card feature (/AC*) which is assigned to the MLHG/TERM must be defined in the Individualized Dialing Plan (defined on the IDPDCA form) or the Office Dialing Plan (defined on the PDIT form) with an ACTION of "ACCTUSE".

```
acctmpa                         5ESS Switch
(5623-5)                 OFFICE DATA ADMINISTRATION
                   ACCOUNT CODE LINE (MLHG/TERM) PARAMETERS




* 1. MLHG                 _____
* 2. TERM                 _____
* 3. FEATURE NAME         __________


  4. ACCT GROUP NAME      __________
  5. CODE TABLE NAME      __________
```

Figure 1 SAMPLE ACCTMPA FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 24F: 5623-6 RECORD
ACCOUNT CODE TRUNK (TGN/MEMB) PARAMETER FORM - ACCTTPA

1. GENERAL

The 5623-6 Record is available with 5E3 and later Software Releases, and is used to assign ACCT feature parameters to trunks if the default parameters of the ACCTFD Form, 5623-1 Record, are inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.42.

2. FORM AND RECORD ENTRIES - 5623-6 RECORD

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TGN

Description: Enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202-1 Record) must be "PF" or "PFLASH".

2.3 * MEMB

Description: Enter the Trunk Group Member Number of the trunk.

Required Field.
Valid Entries: 0 - 1951

2.4 * FEATURE NAME

Description: Enter the Account Code Feature Name. Feature Name may be from one to eight characters long with no restrictions on the valid characters, except that the first character may not be a slash (/). Feature Names starting with a slash are reserved for pre-contructed features.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of a ACCT feature defined on the ACCTFD Form.

2.5 ACCT GROUP NAME

Description: Enter the name of the ACCT Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered must be that of an ACCT Group defined on an ACCTGP Form.

2.6 CODE TABLE NAME

Description: Enter the ACCT associated Code Table Name for the port.
Valid Entries: 1 - 8 characters

Data Rules:

If a CODE TABLE NAME is entered, an ACCTRTP Form must be entered for this CODE TABLE NAME. If CODE ASSOC ALW defined on the associated ACCTFD Form is set to "N", then CODE TABLE NAME must be left blank.

TGNs are assigned ACCT (Account Code) Features on the TKGRPFA form. The ACCT Feature has CODE TABLE NAME entered either on an ACCTTPA or ACCTFD form. The CODE TABLE NAME is defined on an ACCTRTP form with USE CODEs entered. These USE CODEs and either the specific assigned ACCT Feature or the ACCT wildcard feature (/AC*) which is assigned to the trunk must be defined in the Individualized Dialing Plan (defined on the IDPDCA form) or the Office Dialing Plan (defined on the PDIT form) with an Action of "ACCTUSE".

TGN/MEMB(s) are assigned ACCT (Account Code) Features on the TRUNKFA form. The ACCT Feature has CODE TABLE NAME entered either on an ACCTTPA or ACCTFD form. The CODE TABLE NAME is defined on an ACCTRTP form with USE CODEs entered. These USE CODEs and either the specific assigned ACCT Feature or the ACCT wildcard feature (/AC*) which is assigned to the trunk must be defined in the Individualized Dialing Plan (defined on the IDPDCA form) or the Office Dialing Plan (defined on the PDIT form) with an Action of "ACCTUSE".

```
accttpa                          5ESS Switch
(5623-6)                  OFFICE DATA ADMINISTRATION
                   ACCOUNT CODE TRUNK (TGN/MEMB) PARAMETERS



* 1. TGN                 1032
* 2. MEMB                0022
* 3. FEATURE NAME        DAWN


  4. ACCT GROUP NAME     D224
  5. CODE TABLE NAME     ________
```

Figure 1 SAMPLE ACCTTPA FORM 5E3 AND LATER SOFTWARE RELEASES

SEC. 25: MESSAGE DETAIL RECORDING FORMS

SEC. 25A: 5624-1 RECORD
MESSAGE DETAIL RECORDING FEATURE DEFINITION FORM - MDRFD

1. GENERAL

The 5624-1 Record is available with 5E3 and later Software Releases. It is used to define various combinations of options associated with MDR (Message Detail Recording), a BRCS feature.

The MDR to CL (Message Detail Recording to Customer Location) feature supplies detailed call records directly to a customer's location. The MDR records are shipped, in real time, to an AP (Applications Processor) via dedicated data links from the 5ESS switch. The 5ESS switch is responsible for collecting the information for an MDR record, placing it in the proper record format, and shipping the record out over a data link. The AP is responsible for storing and processing the MDR records.

Each combination of MDR options is given a 1 - 8 character feature name, which is used to assign the constructed (switch owner defined) feature to lines or trunks. Each terminal (line or trunk) may be assigned only one MDR feature name.

One MDR feature has been predefined and is automatically provided in the office database at the time of office registration. This is the preconstructed feature. All preconstructed feature names start with a slash (/) which may not be used to start any other feature name. The MDR preconstructed feature appears in Figure 1.

To use the MDR capability, a terminal must be assigned an MDR feature on the appropriate feature assignment form (LINEFA, MLHLNFA, TKGRPFA, TRUNKFA or BFG) and must belong to an MDR group. The MDR group name is assigned either as a default parameter defined with a MDR feature on the MDRFD form or on an MDRLPA, MDRTPA or MDRMPA form.

The MDR group information, defined on the MDRGP form (5624-2 Record), is used to indicate the group name, the group status, the customer's identification, the Application Processor to which the group is assigned, the attempt types allowed and the types of MDR records allowed by the group. The group Application Processor information (AP SITE ID) and the business customer identification (BCID) must also be specified on the APCA form (5620 Record).

The count of the sum total of all MDR records generated and the sum total of all MDR records lost is available to up to twenty-five MDR customers on a daily basis. The MDR customer identification and associated Applications Processor identification for these customers are specified on the MDRCNT form (5624-3 Record).

For 5E6 and later Software Releases, a Trunk Group that is assigned an MDR feature must be defined on a TKGRP form (5202 Record) with one of the following Trunk Classes (TRKCLS): "PF", "PFITT", "PFLASH", "LTOLLCON", "TTOLLCON", "PRINTOLL", "CAMAANI", "LATA", "EDSL" or "EDSLHM".

A Trunk that is assigned an MDR feature must belong to a Trunk Group defined on a TKGRP form with one of the above Trunk Classes or with INTEROFC.

1.1 Recent Change View

The corresponding Recent Change View for MDRFD is 12.33. For more information on Recent Change Views that correspond to ODA forms, please see Division 0, Section 2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * FEATURE

Description: Enter the MDR (Message Detail Recording) Feature name. MDR Feature names may be from one to eight characters long, with no restrictions on the valid characters, except that the first character may not be a slash (/) which is reserved for preconstructed features. Preconstructed features may be reviewed but may not be deleted, changed or inserted in the ODA database.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter (optionally) a descriptive comment of up to 32 characters.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.6) define the feature options available to the MDR feature.

2.4 ACT TYPE

Description: Enter the Activation Type of the MDR Feature.

Valid ACT TYPE Entries

Entry	Definition
AUTO	Automatic activation
CODE	Dial code

Data Rules:

AUTO:
If the ACT TYPE is "AUTO", the DACT type must be "NONE" or "CODE".

- If the DACT TYPE is "NONE", MDR is always active.
- If the DACT TYPE is "CODE", MDR can be deactivated for one call by a dialed code.

CODE:
If the ACT TYPE is "CODE", the DACT type must be "AUTO" or "CODE".

- If the DACT TYPE is "CODE", MDR can be activated or deactivated by a dialed code.
- If the DACT TYPE is "AUTO", MDR can be activated for one call by a dial code.

When "CODE" is entered for ACT TYPE, the dialed code must be defined in the subscribers IDP (Individualized Dialing Plan) Dialed Code Assignment on the IDPDCA form (5601-1/2 Record) (if a member of an IDP) or in the Office Dialing Plan on the PDIT form (5300-2 Record) as ACTION equal to "MDRACT".

2.5 DACT TYPE

Description: Enter the Deactivation Type of the MDR Feature.
Default: NONE
Valid Entries:

Valid DACT TYPE Entries

Entry	Definition
AUTO	Automatic deactivation
CODE	Dial code
NONE	No deactivation allowed

Data Rules:

See ACT TYPE description for interactions between ACT TYPEs and DACT TYPEs.

When "CODE" is entered for DACT TYPE the dialed code entered must be defined in the subscribers IDP (Individualized Dialing Plan) Dialed Code Assignment on the IDPDCA form (5601-1/2 Record) (if a member of an IDP) or in the Office Dialing Plan on the PDIT form (5300-2 Record) with ACTION equal to "MDRDCT".

2.6 GRP CHANGE ALLOWED?

Description: Can a dialed code can be used to change the MDR group status? If Group Change Allowed is permitted, MDR group status can be controlled by a dialed code.
Default: N
Valid Entries: Y, N

DEFAULT PARAMETERS

The following field defines the default parameter assigned with the feature to terminals (lines or trunks). This parameter will be assigned to the terminal unless it is overridden by entries on the MDRLPA, MDRMPA or MDRTPA Forms.

2.7 MDR GROUP NAME

Description: Enter the NAME of the MDR Group.
Valid Entries: 1 - 8 characters

ESS 5624-1(01)TG-5 MESSAGE DETAIL RECORDING DATE ___________
FEATURE DEFINITION RECORD
12.33 5ESS SWITCH
MDRFD
BASE______CONT GR____ 5ESS UNIT ___________________

FEATURE	REMARKS	FEATURE OPTIONS			DEFAULT PARAMETERS
		ACT TYPE	DACT TYPE	GRP CHANGE ALLOWED?	MDR GROUP NAME
/MD*	MDR to CL - Wildcard	AUTO	NONE	N	
/MDRTOCL	MDR to CL always active	AUTO	NONE	N	

Figure 1 PRECONSTRUCTED MESSAGE DETAIL RECODING FEATURE

```
mdrfd                              5ESS Switch
(5624-1)                    OFFICE DATA ADMINISTRATION
                  MESSAGE DETAIL RECORDING FEATURE DEFINITION


* 2. FEATURE        ________     3. REMARKS  ________________________________


  FEATURE OPTIONS:
  4. ACT TYPE     AUTO           DEFAULT PARAMETERS:
  5. DACT TYPE    NONE           7. MDR GROUP NAME   _______
  6. GRP CHANGE ALLOWED? N
```

Figure 2 SAMPLE MDRFD FORM   5E3 AND LATER SOFTWARE RELEASES

SEC. 25B: 5624-2 RECORD
MESSAGE DETAIL RECORDING GROUP FORM - MDRGP

1. GENERAL

The 5624-2 Record is available with 5E3 and later Software Releases. It is used to define the group information for MDR (Message Detail Recording).

Each terminal (line or trunk) that will use the MDR capability must be assigned an MDR feature identification (defined on the MDRFD form (5624-1 Record)) on a LINEFA, MLHLNFA, TKGRPFA, BFG or TRUNKFA form. In addition, each terminal must be assigned to an MDR group which may be defined as the default parameter on the MDRFD form or on an individual terminal basis with the MDRLPA, MDRMPA or MDRTPA forms. The preconstructed MDR feature provided does not specify the MDR group. Therefore, if the preconstructed feature is used, individual parameter forms must be entered for each terminal.

1.1 Recent Change View

The corresponding Recent Change View for MDRGP is 24.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MDR GROUP NAME

Description: Enter the NAME of the MDR Group.
Valid Entries: 1 - 8 characters

2.3 MDR GROUP STATUS

Description: Enter the MDR status.
Default: ON
Valid Entries:

Valid MDR GROUP STATUS Entries

Entry	Definition
ON	The MDR capability is turned on.
OFF	The MDR capability is turned off.

Data Rules:

If the MDR GROUP STATUS is "ON", the MDR RECORD TYPE ALLOWED? fields are treated as specified for this group (i.e., "Y" or "N"). However, if the MDR GROUP STATUS is "OFF", the MDR RECORD TYPE ALLOWED? fields are all treated as "N".

2.4 #BCID

Description: Enter the Business Customer Identification Number.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

For 5E5 and 5E6, the BCID and AP SITE ID must be defined on an APCA form (5620 Record).

2.5 #AP SITE ID

Description: Enter the Application Processor Site Identification Number to which this MDR group reports.

Required Field.
Valid Entries: 1 - 255

Data Rules:

This AP SITE ID must also be defined on the APCA form (5620 Record), APCOMM form (5507 Record) or the DSLAP form (5963 Record) as AP SITE ID.

2.6 8 HR PASSED

Description: Is an 8-Hour Passed MDR Record is to be generated? An 8-hour passed MDR Record is an additional MDR Record generated for calls that have been in progress for 8 hours or more.

Software Releases: 5E5 and later
Required field.
Default Value: N.
Valid Entries: Y, N

Data Rules:

In order for an 8-Hour Passed MDR Record to be generated, this field must be "Y" and the 8 HR SCAN field on the OFCOPT form must be "Y". If the 8 HR SCAN field on the OFCOPT form is "N", an 8-Hour Passed MDR Record will not be generated, even if the value entered in this field is "Y".

CKT ATTEMPT TYPES

This field group was ATTEMPT TYPES ALLOWED? in 5E5 and earlier Software Releases. The fields Section 2.7 - Section 2.8 are for ATTEMPT TYPES ALLOWED? The field group CKT ATTEMPT TYPES was added with 5E6 and later Software Releases. Fields Section 2.9 - Section 2.14 refer to CKT ATTEMPT TYPES.

2.7 EFFECTIVE ATTEMPTS

Description: Will effective call attempts be recorded for this MDR group?

Software Release: 5E5 and earlier
Default: Y
Valid Entries: Y, N

Data Rules:

Either this and/or INEFFECTIVE ATTEMPTS must be "Y".

2.8 INEFFECTIVE ATTEMPTS

Description: Will ineffective call attempts be recorded for this MDR group? An ineffective attempt is defined as a call with a valid dialing sequence (i.e., not partial dial) that does not complete for some reason (e.g., all facilities are busy).

Software Release: 5E5 and earlier
Default: N
Valid Entries: Y, N

Data Rules:

Either this and/or EFFECTIVE ATTEMPTS must be chosen "Y".

2.9 EFF ORIG PRIV

Description: Will effective originating private calls be recorded for this MDR group?

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

Either this or INEFF ORIG PRIV must be "Y".

2.10 INEFF ORIG PRIV

Description: Will ineffective Originating Private calls be recorded for this MDR group?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

Either this and/or EFF ORIG PRIV must be "Y".

2.11 EFF INC PRIV

Description: Will Effective Incoming Private calls be recorded for this MDR group?

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

Either this and/or INEFF INC PRIV must be "Y".

2.12 INEFF INC PRIV

Description: Will Ineffective Incoming Private calls be recorded for this MDR group?

Software Release: 5E6 and later

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

Data Rules:

Either this and/or EFF INC PRIV must be "Y".

2.13 EFF PUBLIC

Description: Will Effective Public Calls be recorded for this MDR group?

Software Release: 5E6 and later
Required Field.
Default: Y
Valid Entries: Y, N

Data Rules:

Either this and/or INEFF PUBLIC must be "Y".

2.14 INEFF PUBLIC

Description: Will Ineffective Public Calls be recorded for this MDR group?

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

Either this and/or EFF PUBLIC must be "Y".

2.15 EFF STA STA

Description: This field is reserved for future use.

2.16 INEFF STA STA

Description: This field is reserved for future use.

CKT MDR RECORD TYPES

In 5E5 and earlier Software Releases, this field group was called MDR RECORD TYPE ALLOWED? The fields Section 2.17 - Section 2.19 determine the types of MDR Records that are allowed for this MDR group. At least one of the following MDR Record types must be chosen.

2.17 ORIG PRIV

Description: In 5E5 and earlier Software Releases, this field was called ORIGINATING PRIVATE.

Is the Originating Private MDR Record allowed? An Originating Private MDR Record is generated for calls originating at the 5ESS Switch using an ARS access code (on-net access code or off-net access code),

automatic ARS, implied on-net access code (i.e., network access trunk) or a PFA (Private Facility Access) code for a tie trunk, FX, WATS, CCSA or ETS access. A call using an ARS access code (on-net or off-net) or automatic ARS is routed via ARS. If an ARS routed call overflows to DDD, a Public MDR Record is generated instead of an Originating Private MDR Record. The Originating Private MDR Record is available to customers with or without a private network.
Default: Y
Valid Entries: Y, N

2.18 INC PRIV

Description: In 5E5 and earlier Software Releases, this field was called INCOMING PRIVATE.

Is the Incoming Private MDR Record allowed? An Incoming Private MDR Record is generated for calls incoming to the 5ESS Switch via intertandem tie trunk facilities. These calls may be routed over private/public trunk facilities or terminated at the 5ESS Switch over private/public line facilities. Calls incoming to the 5ESS Switch via intertandem tie trunk facilities are tandem type calls in that they originated at another node in the customers private network. As intertandem tie trunk facilities are applicable only to private networks, the Incoming Private MDR Record is available only to customers with a private network.
Default: N
Valid Entries: Y, N

2.19 PUBLIC

Description: Is the Public MDR Record allowed? A Public MDR Record is generated for calls originating at the 5ESS Switch using an "escape to POTS" access code (e.g., *9) or an implied DDD access (dials straight DDD). This record is also generated for ARS routed calls which overflow to DDD. The Public MDR Record is available to customers with or without a private network.
Default: N
Valid Entries: Y, N

2.20 STA STA

Description: This field is reserved for future use.

PACKET MDR INFORMATION

The following fields Section 2.21 - Section 2.23 determine Message Detail Recording information for packet data calls. These fields were added with the 5E7 Software Release for the Packet MDR.

2.21 PACKET MDR

Description: Can users assigned to this Packet MDR group generate MDR records?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If PACKET MDR is "N", MODEM POOL and INTRA PB GRP must also be "N".

Either the PACKET MDR, ORIG PRIV, INC PRIV, or PUBLIC field must be "Y".

If PACKET MDR is "Y", ORIG PRIV is "N", IN PRIV is "N", and PUBLIC "N", then MDR GROUP NAME field must not be entered as MDR GROUP NAME on the following forms:

- the MDRFD form,
- the MDRMPA form,
- the MDRTPA form,
- the MDRLPA form, and
- the BFG form.

2.22 MODEM POOL

Description: Can Modem Pool usage MDR records be generated for the packet lines assigned to this MDR group?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

2.23 INTRA PB GRP

Description: Can Packet MDR records for Intra-Packet Business Groups be generated?

Software Release: 5E7 and later
Required Field.
Default: N
Valid Entries: Y, N

```
 mdrgp                 5ESS OFFICE DATA ADMINISTRATION
 (5624-2)                  MESSAGE DETAIL RECORDING
                            GROUP DEFINITION FORM


*1. MDR GROUP NAME         MDR1

 2. MDR GROUP STATUS       ON                MDR RECORD TYPE ALLOWED?
 3. BCID                   00067             7. ORIGINATING PRIVATE       Y
 4. AP SITE ID             033               8. INCOMING PRIVATE          N
                                             9. PUBLIC                    N

 ATTEMPT TYPES ALLOWED?
 5. EFFECTIVE              Y
 6. INEFFECTIVE            N
```

Figure 1 SAMPLE MDRGP FORM 5E4(2) SOFTWARE RELEASE

```
 mdrgp                           5ESS Switch
 (5624-2)                  OFFICE DATA ADMINISTRATION
```

```
                  MESSAGE DETAIL RECORDING GROUP DEFINITION


*1. MDR GROUP NAME         MDR0

 2. MDR GROUP STATUS       ON               MDR RECORD TYPE ALLOWED?
 3. BCID                   00067            7. ORIGINATING PRIVATE       Y
 4. AP SITE ID             009              8. INCOMING PRIVATE          N
                                            9. PUBLIC                    N

 ATTEMPT TYPES ALLOWED?                    10. 8 HR PASSED               Y
 5. EFFECTIVE              Y
 6. INEFFECTIVE            N
```

Figure 2 SAMPLE MDRGP FORM 5E5 SOFTWARE RELEASE

```
 mdrgp                           5ESS Switch
 (5624-2)                 OFFICE DATA ADMINISTRATION
                  MESSAGE DETAIL RECORDING GROUP DEFINITION

*1. MDR GROUP NAME   MDR0             ATTEMPT TYPES        MDR RECORD TYPES
 2. MDR GROUP STATUS ON           6. EFF   ORIG PRIV Y     14. ORIG PRIV Y
#3. BCID             00067        7. INEFF ORIG PRIV N     15. INC PRIV  N
#4. AP SITE ID       009          8. EFF   INC PRIV  Y     16. PUBLIC    N
 5. 8 HR PASSED      N            9. INEFF INC PRIV  N         STA STA
                                 10. EFF   PUBLIC    Y
                                 11. INEFF PUBLIC    N
                                     EFF   STA STA
                                     INEFF STA STA
```

Figure 3 SAMPLE MDRGP FORM 5E6 SOFTWARE RELEASE

```
 mdrgp                           5ESS Switch
 (5624-2)                 OFFICE DATA ADMINISTRATION
                  MESSAGE DETAIL RECORDING GROUP DEFINITION

*1. MDR GROUP NAME   MDR21        CKT ATTEMPT TYPES        CKT MDR RECORD TYPES
 2. MDR GROUP STATUS ON           6. EFF   ORIG PRIV Y     14. ORIG PRIV Y
#3. BCID             00455        7. INEFF ORIG PRIV N     15. INC PRIV  N
#4. AP SITE ID       012          8. EFF   INC PRIV  Y     16. PUBLIC    N
 5. 8 HR PASSED      Y            9. INEFF INC PRIV  N         STA STA
                                 10. EFF   PUBLIC    Y
                                 11. INEFF PUBLIC    Y     PACKET MDR INFO
                                     EFF   STA STA         18. PACKET MDR   N
                                     INEFF STA STA         19. MODEM POOL   N
                                                           20. INTRA PB GRP N
```

Figure 4 SAMPLE MDRGP FORM 5E7 AND LATER SOFTWARE RELEASES

SEC. 25C: 5624-3 RECORD
MESSAGE DETAIL RECORDING COUNTS FORM - MDRCNT

1. GENERAL

The 5624-3 Record is available with the 5E3 and later Software Releases. It is used to identify up to twenty-five MDR (Message Detail Recording) customers who are to receive MDR counts. Two counts are provided on a daily basis; they are:

- the sum total of all MDR Originating Private, Incoming Private and/or Public records generated;
- the sum total of all MDR Originating Private, Incoming Private and/or Public records lost.

The MDR customer identification and associated Applications Processor identification for these customers are specified on this form. A definition of the MDR record types is provided with the MDRGP form (5624-2 Record) description.

1.1 Recent Change View

The corresponding Recent Change view for this form is 24.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * KEY

Description: Enter the KEY value which is always "N", and is supplied as the default value.

Required Field.
Default: N
Valid Entries: N

MDR COUNTS LIST

The MDR counts list (fields Section 2.3 - Section 2.4) is a list of up to twenty-five MDR customers that are to receive MDR record counts on a daily basis. This list is made up of the BCID (Business Customer Identification) and the associated APID (AP Identification) of these customers. Each set of BCID/APID specified here must also be specified on the MDRGP form (5624-2 Record) and on the APCA form (5620-1 Record).

2.3 BCID 1 - BCID 25

Description: Enter the Business Customer ID of the customer receiving the MDR counts record.
Valid Entries: 1 - 65535

2.4 APID 1 - APID 25

Description: Enter the Attached Processor ID of the customer receiving the MDR counts record.
Valid Entries: 1 - 255

```
mdrcnt                           5ESS Switch
(5624-3)                   OFFICE DATA ADMINISTRATION
                        MESSAGE DETAIL RECORDING COUNTS

* 1. KEY  N
                        2. MDR COUNTS LIST

 3. BCID 1  00010 APID 1  010        16. BCID 14 _____ APID 14    ___
 4. BCID 2  00020 APID 2  020        17. BCID 15 _____ APID 15    ___
 5. BCID 3  00030 APID 3  030        18. BCID 16 _____ APID 16    ___
 6. BCID 4  00040 APID 4  040        19. BCID 17 _____ APID 17    ___
 7. BCID 5  00050 APID 5  050        20. BCID 18 _____ APID 18    ___
 8. BCID 6  00060 APID 6  060        21. BCID 19 _____ APID 19    ___
 9. BCID 7  00070 APID 7  070        22. BCID 20 _____ APID 20    ___
10. BCID 8  00080 APID 8  080        23. BCID 21 _____ APID 21    ___
11. BCID 9  00090 APID 9  090        24. BCID 22 _____ APID 22    ___
12. BCID 10 00100 APID 10 100        25. BCID 23 _____ APID 23    ___
13. BCID 11 00110 APID 11 110        26. BCID 24 _____ APID 24    ___
14. BCID 12 00120 APID 12 120        27. BCID 25 _____ APID 25    ___
15. BCID 13 00130 APID 13 130
```

Figure 1 SAMPLE MDRCNT FORM 5E5 AND LATER SOFTWARE RELEASES

SEC. 25D: 5624-4 RECORD
MESSAGE DETAIL RECORDING
LINE (TN) PARAMETER FORM - MDRLPA

1. GENERAL

The 5624-4 Record is available with 5E3 and later Software Releases. It is used when assigning MDR (Message Detail Recording) features to non-Multi-Line Hunt lines if the default parameter of the MDRFD form (5624-1 Record) is inappropriate or unspecified.

The line to which this MDR feature is assigned must have a CLASS OF SERVICE of either "INDIV", "PBX", "4WINDIV", or "ATND" defined on an LCC form (5306 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * TN

Description: Enter the seven-digit Telephone Number of the line.

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:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Non-Data Link Console Line or Attendant Line
INDIV	Individual Line
ISDN	Integrated Services Digital Network digital subscriber lines
ISATND	ISDN Attendant Terminal
PBX	Line to a PBX
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX

For 5E12 and later, TN/FEATURE combinations on different MDRLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the MDRLPA 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 * FEATURE

Description: Enter the name of the MDR feature for which the parameter is to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR feature defined on the MDRFD form (5624-1 Record).

2.4 MDR GROUP NAME

Description: Enter the name of the MDR Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR group defined on the MDRGP form (5624-2 Record).

```
mdrlpa                           5ESS Switch
(5624-4)                  OFFICE DATA ADMINISTRATION
                MESSAGE DETAIL RECORDING LINE (TN) PARAMETERS



 * 1. TN              5551010
 * 2. FEATURE         MDRTOCL


   3. MDR GROUP NAME  MYGROUP
```

Figure 1 SAMPLE MDRLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
mdrlpa                            5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5624-4)         MESSAGE DETAIL RECORDING LINE (TN) PARAMETERS

*1. TN      __________
*2. FEATURE ________

#3. MDR GROUP NAME ________
```

Figure 2 SAMPLE MDRLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 25E: 5624-5 RECORD
MESSAGE DETAIL RECORDING
LINE (MLHG/TERM) PARAMETER FORM - MDRMPA

1. GENERAL

The 5624-5 Record is available with 5E3 and later Software Releases. It is used when assigning MDR (Message Detail Recording) features to Multi-Line Hunt lines if the default parameter of the MDRFD form (5624-1 Record) is inappropriate or unspecified.

The line to which this MDR feature is assigned must have a CLASS OF SERVICE of either "4WINDIV", "INDIV", "PBX", or "ATND" defined on an LCC form (5306 Record).

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

2.3 * TERM

Description: Enter the Multi-Line Hunt Group Member number of the line.

Required Field.
Valid Entries: 1 - 2015 and 3001 - 3999 (Outdial Terminals Only)

Data Rules:

The associated Class of Service on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B Nondata Link Console Line or Attendant Line
INDIV	Individual Line
ISDN	Integrated Services Digital Network digital subscriber lines
ISATND	ISDN Attendant Terminal
PBX	Line to a PBX
4WINDIV	4-Wire Individual Line or 4-Wire Manual PBX

2.4 * FEATURE

Description: Enter the name of the MDR feature for which the parameter is to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR feature defined on the MDRFD form (5624-1 Record).

2.5 MDR GROUP NAME

Description: Enter the name of the MDR Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR group defined on the MDRGP form (5624-2 Record).

```
mdrmpa                           5ESS Switch
(5624-5)                   OFFICE DATA ADMINISTRATION
             MESSAGE DETAIL RECORDING LINE (MLHG/TERM) PARAMETERS



 * 1. MLHG            0027
 * 2. TERM            0001
 * 3. FEATURE         MDRTOCL


   4. MDR GROUP NAME  MYGROUP
```

Figure 1 SAMPLE MDRMPA FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 25F: 5624-6 RECORD
MESSAGE DETAIL RECORDING
TRUNK (TGN/MEMB) PARAMETER FORM - MDRTPA

1. GENERAL

The 5624-6 Record is available with 5E3 and later Software Releases. It is used when assigning MDR (Message Detail Recording) parameters to a trunk group member if the default parameter of the MDRFD form (5624-1 Record) is inappropriate or unspecified.

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.33.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 * TGN

Description: Enter the Trunk Group Number of the trunk.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated TRKCLS entry on the TKGRP form (5202 Record) must be one of the following.

TRKCLS	
LTOLLCON	Toll Connecting
PF	Private Facility
PFITT	Private Facility Intertandem Trunk
PFLASH	Private Facility Feature Flash
PRINTOLL	Primary Intertoll
TTOLLCON	Toll Completing

2.3 * MEMB

Description: Enter the Trunk Group Member number of the trunk.

Required Field.
Valid Entries: 0 - 1951

2.4 * FEATURE

Description: Enter the name of the MDR feature for which the parameter is to be assigned.

Required Field.

Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR feature defined on the MDRFD form (5624-1 Record).

2.5 MDR GROUP NAME

Description: Enter the name of the MDR Group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The name entered here must be that of an MDR group defined on the MDRGP form (5624-2 Record).

```
mdrtpa                            5ESS Switch
(5624-6)                   OFFICE DATA ADMINISTRATION
             MESSAGE DETAIL RECORDING TRUNK (TGN/MEMB) PARAMETERS



 * 1. TGN             0022
 * 2. MEMB            0001
 * 3. FEATURE         MDRTOCL


   4. MDR GROUP NAME  MYGROUP
```

Figure 1 SAMPLE MDRTPA FORM   5E5 AND LATER SOFTWARE RELEASES

SEC. 26: BRCS FEATURE GROUPING FORMS

SEC. 26A: 5625-1/2/3/4/5/6/7 RECORD
BFG (BRCS FEATURE GROUPING)
CONSTRUCTION FORM - BFG

1. GENERAL

The 5625-1/8 Record is available with 5E4(2) and later Software Releases. It is used to specify and construct BFGs for use when assigning subscriber features to analog lines or ISDN terminals. BFG is designed to assist the switch owner in the conservation of Switching Module memory and the improvement of Recent Change response time, and it cannot be used with trunks.

1.1 Speed Call Features

With 5E6 and later, Speed Call (Abbreviated Dialing) features are assigned separately from IDP (Individualized Dialing Plan) features. Prior to this disassociation, a line can be assigned an IDP feature with a Speed Call feature which counts as one feature for that line. However, for 5E6 and later, this line can be assigned up to three features: an IDP feature and up to two SC (Speed Call) features.

After retrofit, an existing IDP feature with Speed Call counts as three separate features. This may raise the count of Terminal features for that line above the maximum of thirty features. A line only may be assigned up to thirty Terminal features, therefore, use discretion with a BFG form that has more than twenty-eight Terminal features (IDP feature included) at the time of retrofit. If the feature count is greater than thirty after retrofit, the one-digit SC1 (Speed Call) feature, if it has been assigned, will be canceled. If SC1 has not been assigned, then two-digit SC2 (Speed Call) will be canceled. If both features have been assigned to this line, both may be canceled.

1.2 Feature Parameter Fields

The feature parameter fields are located on various screens of this form. The BFG form (Screen 1) contains a table of Modular Feature abbreviations and the screen number where their associated parameters are located.

Refer to Figure 1 for the definitions of the parameter types associated with each Modular Feature. For further information on using BFG, please refer to the BFG Feature Definition (Division 2, Section 1U).

1.3 Recent Change View

The Recent Change View for this form is 12.9.

2. FORM ENTRIES - 5625-1 RECORD

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

BFG NAME

The following fields (Section 2.2 - Section 2.3) are used to enter a BFG name. BFGN (BFG Name) is the name assigned to a particular constructed BFG. It is recommended that the switch owner establish a consistent naming convention to be used when establishing BFG names. Refer to the BFG feature description, Division 2, Section 1U, for some recommendations.

Restriction: The following names are reserved for internal BFG usage and cannot be assigned as BFG names for either a SELECTION BFGN or a UNIQUE BFGN: ABORT, NONTGID, ACTBFG, SETUP, CLEANUP, TEMP, and NULL.

BFGNs must not be duplicated; a SELECTION BFGN may not match a UNIQUE BFGN.

2.2 (*) SELECTION BFGN

Description: This field is used to enter the SELECTION BFGN and SUFFIX chosen to represent the BFG under construction. BFGN SUFFIX is a number between one and nine that permits the user to construct up to nine BFGs that are related by a common BFG NAME.
Valid Entries: 1 - 7 alphanumeric characters

Data Rules:

If a SELECTION BFGN is entered, then a SUFFIX must be entered. If a SUFFIX is entered, then a SELECTION BFGN must be entered. If a SELECTION BFGN and SUFFIX are entered, then the UNIQUE BFGN must be blank.

2.3 (*) UNIQUE BFGN

Description: This field is used to enter the UNIQUE BFGN chosen to represent the BFG under construction.
Valid Entries: 1 - 7 alphanumeric characters

Data Rules:

If a UNIQUE BFGN is entered, then the SELECTION BFGN and SUFFIX must be blank.

2.4 # LCC

Description: This field is used to enter the LCC (Line Class Code). The LCC entered will be used to do error checks on the constructed BFGN. The BFGN LCC does not have to exactly match the LCC of the subscribers that are assigned this BFGN. The LCC/RAX combination entered must be defined on an LCC form (5306 Record).
Valid Entries: 3 alphanumeric characters

2.5 # RAX

Description: This field is used to enter the RAX (Rate Area Number). The RAX entered will be used to do error checks on the constructed BFGN. The RAX assigned does not have to exactly match the RAX of the subscribers assigned to the BFGN. The LCC/RAX combination entered must be defined on an LCC form (5306 Record).
Valid Entries: For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 999

Data Rules:

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

2.6 CODE RESTRICT

Description: This field is represents the Code Restriction for the BFG group or default service.

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

FEATURE LIST

The following fields (Section 2.7 - Section 2.10) are used to specify the feature names that are to be associated with the BFG under construction. The FEATURE LIST consists of up to 30 Feature/ Cluster names with the associated initial activation state. A minimum of one Feature/Cluster name must be assigned to a BFG.

Assume that only one feature, of a modular feature type, can be assigned to a subscriber line using BFG. If more than one feature of the type can be assigned, the required conditions for assignment will be stated in the BFG feature description (Division 2, Section 1U). If the feature does not require BFG-defined parameters, then the existing restrictions on the quantity of features are not affected by BFG.

2.7 FEATURE

Description: This field is used to enter the feature or cluster name.

If the name used in one of the feature list rows is a constructed feature, it must be defined on a feature definition form.

If the name used in one of the feature list rows is a cluster name, it must be defined on a CLUSTR form (5600 Record). More than one cluster name may be entered on the BFG Construction form to define BFG features. If a cluster name is the only entry, the cluster name must have at least one feature name defined. A maximum of 30 features, using a combination of individual and cluster name defined features, can be assigned to each BFG.

The cluster name is used for input purposes only. The cluster name entered on the BFG Construction form will not be retained in the switch database. Only the features defined by the cluster name will be stored.
Valid Entries: 1 - 8 alphanumeric characters including "/"

Data Rules:

If this field contains a cluster name, the AC fields on the CLUSTR form may not be "Y".

The /LIRDAMU, /LIRDNMU, and /LIRMDU preconstructed features which were created to support the Calling Name Delivery feature were not available for the 5E7 Software Release.

For 5E15 and later, when FEATURE is entered on this form, it must not be defined on the MWFD form (5602 Record) where the appropriate fields on the MWFD form are set as follows:

> FEATURE OPTIONS fields: ACT/INACT OPTION must be set to "ACT1CA", MULTIWAY CONTROL must be set to "NWAY", and AMAC must be set to "USAGE",
>
> ENTRY POINT fields: FLASH must be set to "Y", IN MIDDLE must be set to "Y", and OFF HOOK must be set to "Y", and
>
> DEFAULT PARAMETER field: N-WAY MAXIMUM must be set to "6".

The feature options on the MWFD form define a USSWC (Usage Sensitive Six-Way Calling) feature which cannot be assigned on this form. USSWC must be assigned on the OFCOPT form (5509 Record). For more information on the USSWC feature, see Division 2, Section 4A553.

2.8 A

Description: Is the BRCS feature initially active? If a Cluster name is entered in the FEATURE field, then this field should be "Y". The actual activity status for each feature name assigned by the Cluster name is defined on the CLUSTR form.

Refer to the LINEFA, MLHLNFA and CLUSTR forms for further details regarding restrictions and requirements for feature name assignment and activity status.

Valid Entries are: Y, N

2.9 AC

Description: Is an Authorization Code required for this feature? For the Authorization Code feature to operate correctly, an authorization code group must be defined on the Authorization Code Definition form and this feature must be assigned to an authorization group on the Authorization Codes Feature Class of Service Parameters. There must also be an Authorization Code feature present on the line. (See Data Rules below.)

Software Release: 5E9(1) an later.
Valid Entries: Y, N

Data Rules:

If FEATURE, A, AC or R is entered, then all fields must be entered.

If the AC field is set to "Y", then:

- an Authorization Code Feature must also exist on either an MLHLNFA form, LINEFA form, a BFG form, or an associated CLUSTR form. The Authorization Code Feature must be defined on the ATHFD form, and entered on an MLHLNFA form, a BFG form, a LINEFA form or an associated CLUSTR form.
- the FEATURE must exist on the ATHFCOS form for the CSV ATH GROUP NAME and the CSD ATH GROUP NAME defined on the ATHMPA, BFG or ATHFD form associated with this MLHG/TERM.

When a BFG input form is assigned a feature that is defined on an ACSRFD, ACVTFD, BCLIDFD, CPNBNFD, DISPFD, EDSFD, HIFD, ICMFD, LIDFD, MSFD, or RNDFD form on a BFG form, then AC must be set to "N".

2.10 R

Description: Is Remote Access Service requested on this feature?

Software Release: 5E9(1) and later.
Valid Entries: Y, N

Data Rules:

If FEATURE, A, AC or R is entered, then all fields must be entered.

3. FORM ENTRIES - 5625-2 RECORD

INDIVIDUAL DIALING PLAN

This following fields (Section 3.1 - Section 3.2) are the parameter fields for the Individual Dialing Plan feature.

3.1 IDP GROUP NAME

Description: This field is used to enter the name of the IDP (Individualized Dialing Plan) group.
Valid Entries: 1 - 8 alphanumeric characters

3.2 DPAT CATEGORY

Description: This field is used to enter the DPAT (Dialing Plan Access Treatment) Category.
Valid Entries: 1 - 32

Data Rules:

If this field is entered, the IDP GROUP NAME must be entered.

SPEED CALLING

The following fields (Section 3.3 - Section 3.8) are the parameter fields for the Speed Calling feature.

3.3 SC1 LIST

Description: This field is used to enter the 1-digit Speed Call list name. If the list is shared the SC1 LIST may be any one- to eight-character name except those names that are valid for unshared lists. SC1 LIST may duplicate SC2 LIST. Unshared list names must not be entered for this BFG. If the list is unshared (SC SHARED = "N"), an SC LIST will be reserved for and assigned to each user of the BFG.

Software Release: 5E6 and later
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

Shared SC1 LIST may not be either "A" followed by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

3.4 SC1 SHARED

Description: Can the 1-digit SC1 LIST be shared among two or more users? If "N" is entered (indicating an unshared list), the SC LIST name must not be entered; an SC LIST will be reserved for and assigned to each user of the BFG.

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

3.5 SC1 CODES

This field is used by Recent Change/Verify only.

3.6 SC2 LIST

Description: This field is used to enter the 2-digit Speed Call list name. If the list is shared, then the SC2 LIST may be any one- to eight-character name except those names that are valid for unshared lists. SC2 LIST may duplicate SC1 LIST. Unshared list names must not be entered for this BFG. If the list is unshared (SC SHARED = "N", an SC LIST will be reserved for and assigned to each user of the BFG.

Software Release: 5E6 and later
Valid Entries: For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

Shared SC2 LIST may not be either "A" followed by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

3.7 SC2 SHARED

Description: Can the 2-digit Speed Call list be shared among two or more users? If "N" is entered (indicating an unshared list), the SC LIST name must not be entered; an SC LIST will be reserved for and assigned to each user of the BFG.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

3.8 SC2 CODES

This field is used by Recent Change/Verify only.

4. FORM ENTRIES - 5625-3 RECORD

TERMINAL GROUP

The following fields (Section 4.1 - Section 4.2) contain the parameter field for the Terminal Group and Station Restriction feature.

4.1 GROUP ID

Description: This field is used to enter the TGID (Terminal Group Identification) number.
Valid Entries: 1 - 65535

4.2 MOH ALW

Description: Is Music on Hold allowed?

Once a call has been placed on hold, this field indicates whether or not music is to be provided to the held party during the hold period. This field is only applicable when Secured Feature ID 64 is set to "S" on the SFSYS form (5713-1 Record).

Software Release: 5E7 and later
Required Field.
Default Values: N
Valid Entries: Y, N

Data Rules:

When MOH ALW is "Y", a non-zero GROUP ID must be entered, and the GROUP ID specified must have a MUSIC ON HOLD TGN and MEMB assigned on the TGATTD form.

If MOH ALW is "Y" for a TGSR feature assigned to a TN or an MLHG/TERM on a LINEFA, MLHLNFA, CLUSTR, or BFG form, then:

- the LCC and RAX of the TN or MLHG/TERM must be defined on a corresponding LCC form with CLASS OF SERVICE of "INDIV", "ATND", "ISDN", "ISATND".
- a GROUP ID must be specified on either the BFG or corresponding TGSRFD, TGSRLPA or TGRSMPA form and have a MUSIC ON HOLD TGN and MEMB assigned on the TGATTD form.

FORWARD TO DN

The following fields (Section 4.3 - Section 4.4) are the Forward to DN parameters for the TGSR (Terminal Group and Station Restriction) feature.

4.3 ORIGINATING

Description: This field is used to enter the Originating Forward To Directory Number.
Valid Entries: 1 - 32 digits, consisting of 0 - 9, * or #

4.4 TERMINATING

Description: This field is used to enter the Terminating Forward To Directory Number.
Valid Entries: 1 - 32 digits, consisting of 0 - 9, * or #

ERROR ANNCMT ROUTE INDEX

The following fields (Section 4.5 - Section 4.6) are error announcement route index parameters for the TGSR (Terminal Group and Station Restriction) feature.

4.5 ORIGINATING

Description: This field is used to enter the originating error announcement route index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

4.6 TERMINATING

Description: This field is used to enter the terminating error announcement route index.
Valid Entries:
For 5E10 and earlier: 1 - 3617
For 5E11 and 5E12: 1 - 4095
For 5E13 and later: Blank, or 1 - 16382

4.7 DISP RESTRICT

Description: The Display Restriction field is used to indicate the restriction that displays on an ISAT's console for an incoming MBG (Multiswitch Business Group) call. The DISP RESTRICT field was added to support the CENTREX Network feature. For more information on the CENTREX Network secured features, see Division 2, Sections 4A181, 4A182, and 4A183.

Software Release: 5E9(2) and later.
Valid Entries:

Valid DISP RESTRICT Entries

Entry	Definition
TOLL	Attendant display indicates toll calls are restricted.

4.8 CNIGI

Description: The CNIGI (Calling Number Identification Services Intragroup Delivery Only) field indicates whether members of the terminal group have restrictions on delivery of CPN (Calling Party Number), RN (Redirecting Number), CPS (Calling Party Subaddress), and ICLID (Incoming Call Line Identification). Based on the CNIGI field, these may be restricted to intragroup calls only.

Software Release: 5E10 and later
Default: NULL
Valid Entries:

Valid CNIGI Entries - 5E10 and later

Entry	Definition
INTRAONLY	The above items are delivered only on intra-group calls.
NORSTRCT	No restrictions apply.
NULL	Consult the CNIGI field value on the TGATTD (Terminal Group Attendant and Data) form (5611 Record), RC view (4.4); but if that form does not exist or is NULL consult OFCOPT.

Data Rule:
When CNIGI is entered, a non-zero GROUP ID must be entered.

5. FORM ENTRIES - 5625-4 RECORD

PRIVATE FACILITIES

The following fields (Section 5.1 - Section 5.4) are the parameter fields for the Private Facilities Access feature.

5.1 CSV PFA GRP

Description: This field is used to enter the name of the circuit-switched voice PFA (Private Facilities Access) group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

This name must be defined on a PFAGPA form with GROUP TYPE set to "VOICE". For 5E6 and later, if a CSD PFA GRP is defined on this form, then a CSV PFA GRP also must be defined.

For 5E7 and later, if a PFA feature is assigned to the BFG on a BFG or CLUSTR form, the CSV PFA GRP must be defined either on the BFG form or on the associated PFAFD form.

5.2 CSD PFA GRP

Description: This field is used to enter the name of the circuit-switched data PFA (Private Facilities Access) group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

This name must be defined on a PFAGPA form with GROUP TYPE set to "CSD". There cannot be CSD-only groups for PFA service; this field can only be entered if CSV PFA GRP is entered.

5.3 QUEUE ALLOWED

Description: Are calls from this PFA feature allowed to queue?
Valid Entries: Y, N

Data Rules:

This field must be entered if a PFA GROUP has been entered.

5.4 PRIORITY QUEUE

Description: Does this PFA feature have the priority queuing option?

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

Data Rules:

If this entry is "Y", then QUEUE ALLOWED must be "Y". This field must be entered if a PFA GROUP has been entered.

ADVANCED SERVICE INTERFACE

Fields Section 5.5 - Section 5.9 refer to the Advanced Service Interface Proxy feature. If one or more is entered, the FEATURE LIST on either the BFG or associated CLUSTR form must contain the appropriate feature type.

5.5 ASI GRP

Description: Enter the name of the ASI Proxy group to be used by the ASI Proxy feature assigned within this BFG.

Software Release: 5E8 and later
Valid Entries: 1 - 8 characters

Data Rules:

If ASI GRP is not entered, SERV CODE, ASI SID, IP DIAL BILL, EXP DIAL BILL, RMT BILL, RMT SERV CODE and REC SERV CODE cannot be entered.

This ASI GRP must be defined on a corresponding ASIGP form.

5.6 SERV CODE

Description: Enter the service code digits defining the services allowed during implicit mode access to the IP.

Software Release: 5E8 and later
Valid Entries: 1 - 5 characters consisting of:
  0 - 9, *, #

Data Rules:

If ASI GRP and SERV CODE are both entered, they must be defined on a corresponding ASIGP form.

If an ASI Proxy feature is assigned to a TN and defined on an ASIFD form with IMP ACC equals "Y", then SERV CODE must be entered, if not entered on that ASIFD form, an ASILPA form , or ASIMPA form.

5.7 ASI SID

Description: Enter the Subscriber Identification used to identify the subscriber to the IP. If not specified, the SID is the station TN of the line.

Software Release: 5E8 and later
Valid Entries: 1 - 10 characters consisting of:

- 0 - 9, *, #

5.8 IP DIAL BILL

Description: Does the subscriber want AMA (Automatic Message Accounting) billing records for an otherwise non-billable call dialed by the IP?

Software Release: 5E8 and later
Valid Entries: Y, N

5.9 EXP DIAL BILL

Description: Does the subscriber want AMA records for an explicit connection to the IP?

Software Release: 5E8 and later
Valid Entries: Y, N

Data Rules:

If EXP DIAL BILL equals "Y", EXP ACC must equal "Y" on the corresponding ASIFD form.

REMOTE ACCESS

The following fields (Section 5.10 - Section 5.12) define translations which were added to support the Remote Access to ASI feature. For more information on this feature, see Division 2, Section 4A93.

5.10 RMT BILL

Description: Should an AMA billing record be generated for remote access to Intelligent Peripheral calls?

Software Release: 5E9(1) and later.
Valid Entries: Y, N

5.11 RMT SERV CODE

Description: Enter the Remote Access Service Code used to define the set of services allowed during remote access to the Intelligent Peripheral.

Software Release: 5E9(1) and later.
Valid Entries: 1 - 5 characters consisting of:
0 - 9, *, #

Data Rules:

If RMT SERV CODE is entered, then REC SERV CODE must be entered.

5.12 REC SERV CODE

Description: Enter the Remote Access Reconnect Service Code used to define the set of services allowed during a remote reconnect to the Intelligent Peripheral.

Software Release: 5E9(1) and later.
Valid Entries: 1 - 5 characters consisting of:
0 - 9, *, #

Data Rules:

If REC SERV CODE is entered, then RMT SERV CODE must be entered.

6. FORM ENTRIES - 5625-5 RECORD

CALL PICKUP ORIG

The Loud Speaker Paging and Code Calling features are not available in BFG at this time. The following fields (Section 6.1 - Section 6.5) are the parameter fields for the Call Pickup Originating feature.

Data Rules:
Only one Call Pickup Originating feature is allowed on a given BFG form or on its associated CLUSTR form(s).

6.1 DIRECT PICKUP TN

Description: This field is used to enter the telephone number of the station that will be directly picked up.

Software Release: 5E11 and earlier.
Valid Entries: 7 digits

6.2 ORIG PICKUP GROUP 1

Description: This field is used to enter the queue (group) that the customer can originate to pickup.

Valid Entries:
For 5E11 and earlier: 2 - 65535
For 5E12 and later: 2 - 65534

Data Rules:

If this field is entered, the quantity of pickup groups on the PUOFD form (5605-1 Record) must be 1, 2, 3 or 4.

6.3 ORIG PICKUP GROUP 2

Description: This field is used to enter the queue (group) that the customer can originate to pickup.
Valid Entries: For 5E11 and earlier: 2 - 65535
For 5E12 and later: 2 - 65534

Data Rules:

If this field is entered, the quantity of pickup groups on the PUOFD form (5605-1 Record) must be 2, 3 or 4.

6.4 ORIG PICKUP GROUP 3

Description: This field is used to enter the queue (group) that the customer can originate to pickup.
Valid Entries: For 5E11 and earlier: 2 - 65535
For 5E12 and later: 2 - 65534

Data Rules:

If this field is entered, the quantity of pickup groups on the PUOFD form (5605-1 Record) must be 3 or 4.

6.5 ORIG PICKUP GROUP 4

Description: This field is used to enter the queue (group) that the customer can originate to pickup.
Valid Entries: For 5E11 and earlier: 2 - 65535
For 5E12 and later: 2 - 65534

Data Rules:

If this field is entered, the quantity of pickup groups on the PUOFD form (5605-1 Record) must be 4.

6.6 DPU TN

Description: This field is used to enter the telephone number of the station that will be directly picked up.

Software Release: 5E12 and later.
Valid Entries: XXXXXXX or NXXXXXXXXX where N is 2 - 9 and X is 0 - 9

Data Rules:

When DPU TN is entered or DPU DA DGTS is entered both must be entered.

When DPU TN is entered, ORIG PICKUP GROUP 1 must not be entered.

For 5E12 and later, NXX(s) (the first 3 digits of a 7-digit TN) and/or NPA/NXX combinations (the first 6 digits of a 10-digit TN) from the DPU TN on the BFG form must be defined as OFFICE CODE and/or NPA/OFFICE

CODE on the NOC form.

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

CALL PICKUP TERM

The following fields (Section 6.7 - Section 6.9) are the parameter fields for the Call Pickup Terminating feature.

6.7 TERM PICKUP GROUP

Description: This field is used to enter the Terminating Call Pickup group number.
Valid Entries: 2 - 65535

Data Rules:

When this field has an entry, the FEATURE must be a Call Pickup Terminating feature defined on the PUTFD form (5605-2 Record) with a FEATURE FUNCTION of "CALPU".

Only one Call Pickup Terminating feature is allowed on a given BFG form or on its associated CLUSTR form(s).

6.8 TONE INTERVAL

Description: This field is used to enter the barge-in tone interval in seconds. Zero indicates no repetition.
Valid Entries: 0, blank

6.9 TONE DURATION

Description: This field is used to enter the barge-in tone duration in milliseconds.
Valid Entries: 900, blank

7. FORM ENTRIES - 5625-6 RECORD

DISTINCTIVE RINGING

The following field (Section 7.1) is the parameter field for the DR (Distinctive Ringing) feature. If a subscriber requires multiple DR features, only one DR feature may be defined by a BFG and all others must be defined outside of BFG.

7.1 RING PTN

Description: This field is used to enter the DR (Distinctive Ringing) Pattern Type.

Valid RING PTN Entries

Entry	Definition
A	
B	Indicates a repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on and 4 seconds off.
C	Indicates a 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	Indicates a repeated pattern of 1 second on, 1 second off, 1 second on and 3 seconds off (code 2 ringing).
E	For routing ringing pattern associated with Customer Premise Equipment. Valid with DSN (Defense Switched Network) offices with a Class of Service of "4WINDIV" on the LCC form.

F	For a priority ringing pattern associated with Customer Premise Equipment. Valid with DSN (Defense Switched Network) offices with a Class of Service of "4WINDIV" on the LCC form.
P	For a precedence ringing pattern of 1.64 seconds on and 0.36 seconds off repeated for the duration of the ringing interval.

AUTO CALL BACK

The following fields (Section 7.2 - Section 7.3) are the parameter fields for the Automatic Callback feature.

7.2 RINGING PATTERN

Description: This field is used to enter the ACB (Automatic Call Back) ringing pattern.

Valid RINGING PATTERN Entries

Entry	Definition
A	
B	Indicates a repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on and 4 seconds off.
C	Indicates a repeated pattern of 0.4 seconds on, 0.2 seconds off, 0.8 seconds on and 4 seconds off.
D	Indicates a repeated pattern of 1 second on, 1 second off, 1 second on and 3 seconds off (code 2 ringing).
E	For routing ringing pattern associated with Customer Premise Equipment. Valid with DSN (Defense Switched Network) offices with a Class of Service of "4WINDIV" on the LCC form.
F	For a priority ringing pattern associated with Customer Premise Equipment. Valid with DSN (Defense Switched Network) offices with a Class of Service of "4WINDIV" on the LCC form.
P	For a precedence ringing pattern of 1640 milliseconds on and 360 milliseconds off repeated for the duration of the ringing interval.

7.3 RINGING INTERVAL

Description: This field is used to enter the ACB ringing interval for the ringing provided to the originator when the camped-on line becomes idle.
Valid Entries: 24, 30, 36, 42, and 48 (seconds)

AUTOMATIC ROUTE SELECTION

The following fields (Section 7.4 - Section 7.14) contain the parameter fields for the Automatic Route Selection feature.

7.4 CSV ARS GRP

Description: This field is used to enter the name of the circuit-switched voice ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 alphanumeric characters

Data Rules:

The name must be defined on an ARSGPA form with GROUP TYPE set to "VOICE". Defining a CSV ARS GRP is not required; however, if a CSD ARS GRP is defined on this form, then a CSV ARS GRP also must be defined.

7.5 CSD ARS GRP

Description: This field is used to enter the name of the circuit-switched data ARS group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

The name must be defined on an ARSGPA form with a GROUP TYPE of "CSD". There cannot be CSD-only groups for ARS service; this field can only be entered if CSV ARS GRP is entered.

7.6 TONE TYPE

Description: This field is used to enter the type of warning tone to be supplied to the originator if a route is marked as an expensive route.

Valid TONE TYPE Entries

Entry	Definition
BEEP1	A single beep tone
NONE	

Data Rule:
For 5E6 and later "BEEP1" is the CSV call response; "NONE" is the CSD response.

If TONE TYPE is entered, then the ARS GROUP NAME must be specified.

7.7 FRL LINE

Description: This field is used to enter the FRL (Facility Restriction Level) of the privilege assigned to the terminal. Each ARS route has an FRL assigned to indicate the minimum FRL needed to access the facility. The terminal must have an FRL number equal to or greater than the FRL assigned to the route.
Valid Entries: 0 - 16

Data Rules:

If FRL LINE is entered, then the ARS GROUP NAME must be specified.

7.8 USE ALT FRL

Description: Should the calling terminal's FRL be changed when the Alternate FRL Table has been activated?
Valid Entries: Y, N

Data Rules:

If USE ALT FRL is entered, then the ARS GROUP NAME must be specified.

For 5E6 and later, if this field is "Y", ALW ALT FRL must also be set to "Y" on the ARSGPA form.

7.9 ARS SI

Description: This field is used to indicate the ARS screening index associated with the terminal.
Valid Entries: 1 - 16

Data Rules:

If ARS SI is entered, then the ARS GROUP NAME must be specified.

7.10 ALW MDR RAO

Description: Should an AMA billing record be produced when the terminal originates a call that finds a charge

index with an AMA Call Type of "CCSAS", "ETSMDR" or "ETSCCSA"?
Valid Entries: Y, N

Data Rules:

If ALW MDR RAO is entered, then the ARS GROUP NAME must be specified.

7.11 PRIVATE DN

Description: This field is used to enter the private billing Directory Number to be used for MDR (Message Detail Recording) of private billing records. This directory number can be used for either CL (Customer Location) or RAO (Revenue Accounting Office) entries.
Valid Entries:
For 5E11 and earlier: enter up to 7 digits, 0 - 9
For 5E12 and later: enter up to 10 digits, 0 - 9

7.12 QUEUE ALLOWED

Description: Is the terminal allowed to queue for the first available route in the ARS route list when queuing is active and all routes are busy?
Valid Entries: Y, N

Data Rules:

If QUEUE ALLOWED is entered, then the ARS GROUP NAME must be specified.

7.13 PRIORITY QUEUE

Description: Should the terminal be allowed to enter the priority queue?
Valid Entries: Y, N

Data Rules:

If PRIORITY QUEUE is "Y", then QUEUE ALLOWED must be "Y" and the ARS GROUP NAME must be specified.

7.14 DIAL PLAN

Description: This entry specifies the Dialing Plan to be used to analyze the ARS dialed number.

Valid DIAL PLAN Entries

Entry	Definition
ODP	Office Dialing Plan
1	Private Network Dialing Plan 1
2	Private Network Dialing Plan 2

Data Rule:
If ENTRY on the ARSFD form is "CODE", this entry should be blank. The ARS access code will be used to determine the dialing plan to be used.

This entry is only valid when ENTRY on the ARSFD form equals "AUTO".

For 5E6 and later, the DIAL PLAN value and CSV ARS GROUP name defined on this form must be defined on the PNINFO form (5608-12 Record). Also, for 5E6 and later, if this BFG form is entered and CCSA

LIMITATION is "Y" on the ARSFD form, the CSV ARS GROUP assigned on this form must match the ARS GROUP NAME defined on the PNINFO form (5608-12 Record) where DIAL PLAN is 1.

8. FORM ENTRIES - 5625-7 RECORD

AUTHORIZATION CODES

The following fields (Section 8.1 - Section 8.5) are the parameter fields for the Authorization Code feature.

8.1 CSV ATH GRP

Description: This field is used to enter the name of the circuit-switched voice ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

Defining a CSV ATH GRP is not required; however, if a CSD ATH GRP is defined on this form, then a CSV ATH GRP also must be defined.

8.2 CSD ATH GRP

Description: This field is used to enter the name of the circuit-switched data ATH group.

Software Release: 5E6 and later
Valid Entries: 1 - 8 characters

Data Rules:

There cannot be CSD-only groups for ATH service; this field can only be entered if CSV ATH GRP is entered.

8.3 ATH FIRST

Description: Should the authorization code be entered immediately following the feature access code?
Valid Entries: Y, N

Data Rules:

If ATH FIRST is entered, then the ATH GROUP NAME must be specified.

8.4 ATH FOR AMA

Description: Should the authorization code be entered before any AMA recorded calls are allowed to proceed?
Valid Entries: Y, N

Data Rules:

If ATH FOR AMA is entered, then the ATH GROUP NAME must be specified.

8.5 ATH FOR MDR

Description: Should the Authorization Code be entered before allowing MDR (Message Detail Recording) to

proceed?
Valid Entries: Y, N

Data Rules:

If ATH FOR MDR is entered, then the ATH GROUP NAME must be specified.

ACCOUNT CODE

The following fields (Section 8.6 - Section 8.7) are the parameter fields for the Account Code feature.

8.6 ACCT GROUP NAME

Description: This field is used to enter the Account Code group name.
Valid Entries: 1 - 8 alphanumeric characters

8.7 CODE TABLE NAME

Description: This field is used to indicate the Account Code table name to be used.
Valid Entries: 1 - 8 alphanumeric characters

MESSAGE DETAIL RECORDING

The following field (Section 8.8) is the parameter field for the Message Detail Recording feature.

8.8 MDR GROUP NAME

Description: This field is used to enter the MDR (Message Detail Recording) group name.
Valid Entries: 1 - 8 alphanumeric characters

ELECTRONIC DIRECTORY SERVICE

The following field (Section 8.9) is the parameter field for the Electronic Directory Service feature.

8.9 EDS GRP

Description: This field is used to enter the EDS (Electronic Directory Service) group name.
Valid Entries: 1 - 8 alphanumeric characters

MULTI-WAY CALLING

The following fields (Section 8.10 - Section 8.12) are the parameter fields for the Multi-Way Calling feature.

It is possible to assign more than one Multi-Way Calling feature to a subscriber line using BFG. The first Multi-Way feature encountered on the BFG Construction form will be defined as a part of the BFG. The first Multi-Way feature will use the parameters defined on the BFG Construction form. The second and all additional Multi-Way features, while they are part of the BFG, must reference feature definition forms if they require parameters.

8.10 N-WAYS

Description: This field is used to enter the maximum quantity of terminals allowed in a Multi-Way N-Way call.
Valid Entries: 0, 3, 4, 5, and 6

8.11 TONE DURATION

Description: This field is used to enter the duration of the party departure tone (single beep only) in milliseconds. The normal duration is 300 milliseconds.
Valid Entries: 0, 200, 300, 600, 900, 1200,
1500, 1800, 2100, 2400, 2700, 3000,
3300, 3600, 3900, 4000

8.12 DIRECT CONN DN

Description: This field is used to enter the direct connection Directory Number. Entries are typically 1, 3, 7, 8, 10, or 11 digits or an IDDD number.
Valid Entries: 1 - 15 digits

Data Rule:
If DIRECT CONN DN is entered, the corresponding MWFD form must have a MULTIWAY CONTROL of "DIRCON".

9. FORM ENTRIES - 5625-8 RECORD

CALL WAITING

Fields Section 9.1 - Section 9.2 refer to the parameter fields for the Call Waiting feature.

9.1 CDPTY TONE INTERVAL

Description: This field is used to enter the interval at which the called party receives beeps when there is a call waiting.
Valid Entries: 0 - 60 seconds

9.2 LONG DIST DT

Description: Long Distance Distinctive Tone specifies whether a distinctive call waiting tone is given when the called party receives a long distance incoming call. This field supports the Call Waiting with Distinctive Tones and Distinctive Ringing for Long Distance Calls special feature. For more information on this feature, see Division 2, Section 4A91.

Software Release: 5E8 and later.
Valid Entries:

Valid LONG DST DT Entries

Entry	Definition
DTONE	Provide normal call waiting treatment for non-long distance calls and call waiting distinctive tone pattern E for long distance calls.
NORMAL	Both local and long distance calls receive the "normal" call waiting tones as specified by the CALLED PTY TONE INTERVAL field on the CWTFD form (5603-1 Record).
ONLY	Provide call waiting distinctive tone pattern E only for long distance calls.

Data Rules:

The Call Waiting Distinctive Tones and Distinctive Ringing for Long Distance Calls feature is a Secured Feature that must be purchased by the office before the LONG DST DT field can be entered. A SFSYS form does not exist with If the SFID 91 ACT field is not set to "Y", then the LONG DST DT field must not be entered.

If a CWT Feature assigned on either the TN, LINEFA, MLHLNFA, CLUSTR, or BFG form and the feature has either the INVOCATION field set to "PTRM" or "RTRM" or the INTER OFFICE field set to "N" on the CWTFD form (5603-1 Record), then LONG DST DT must be "NORMAL" or unknown on either the BFG or the corresponding CWTLPA or CWTMPA form. If a CWT feature is assigned through a BFG that has any of the CWT parameters entered, then all CWT parameters on the BFG form are used.

CALL WAITING DELUXE

The following fields define the office parameters for Call Waiting Deluxe. These fields support the Call Waiting Deluxe Phase II Feature. This is a secured feature with SFID 145. For more information on this feature, see Division 2, Section 4A145.

For 5E10 and later, when BFG forms, keyed by BFGN, have a known value other than "OFCALERT" in field ALERT TYPE or have a known value other than "OFCDFLTOPT" in field DFLT OPT or have a known value other than "OFCCONF" in field USG SENS CONF, the Call Waiting feature assigned on this BFG form must be defined on CWTFD form with CW DELUXE equal to "Y".

9.3 ALERT TYPE

Description: Enter the Call Waiting Deluxe Alerting Type. The user and/or the CPE is alerted of an incoming call by way of a tone.

Software Release: 5E10 and later.
Valid Entries:

Valid ALERT TYPE Entries - 5E10 and later

Entry	Definition
OFCALERT	Office value
CWD	SAS only with non-ADSI per-call options allowed
CWD1	SAS & CAS with non-ADSI per-call options restricted
CWD2	SAS & CAS with non-ADSI allowed

9.4 DFLT OPT

Description: Default Service Option is a treatment applied to incoming calls when the user does not select a per-call option.

Software Release: 5E10 and later.
Valid Entries:

Valid DFLT OPT Entries - 5E10 and later

Entry	Definition
OFCDFLTOPT	Office value
CONTRING	Continue providing waiting party audible ringing
CALLFWD	Forward waiting call to CFDA destination
DEFANNC	Connect waiting call to default announcement

9.5 USG SENS CONF

Description: Usage Sensitive Conference is used to track the usage of conferencing.

Software Release: 5E10 and later.
Valid Entries:

Valid USG SENS CONF Entries - 5E10 and later

Entry	Definition
OFCCONF	Office value
NO	Do not provide usage sensitive AMA for conferencing on this line
YES	Provide usage sensitive AMA for conferencing on this line

TALKING CALL WAITING

9.6 TCW

Description: This field is used in determining whether or not Talking Call Waiting is assigned to the Call Waiting feature.

Software Release: 5E12 and later.
Default: N
Valid Entries: Y, N

9.7 INH CW MASTER

Description: Is Call Waiting inhibited for the master TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW MASTER must be "N".

If INH CW MASTER is "Y", then INH CW DEPEND must be "blank" or "N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

The following TNs on the LINEFA, BFG or an associated CLUSTR form have been assigned a Call Forwarding feature on the CWTLPA form with INH CW MASTER or INH CW DEPEND set to "Y". If TNs on the LINE form have a PTY value of 0, then with this feature assignment, this TN must have a LCC/RAX combination defined on the LCC form with a TERMINATING TREATMENT of "INDIV" or "INWATS".

The following BFGs have either INH CW MASTER or INH CW DEPEND set to "Y" and therefore must have a feature associated with this BFG defined on the CWTFD Feature Definition form either directly or through a CLUSTER Name on an associated CLUSTR form.

9.8 INH CW DEPEND

Description: Is Call Waiting inhibited for the depend TN of a line using MDR?

Software Release: 5E14
Default: N
Valid Entries: Y, N

Data Rules:

If INVOCATION is not in "TERM" then INH CW DEPEND must be "N".

If INH CW DEPEND is "Y", then INH CW MASTER must be blank or N".

To enable this feature, the ACT field for SFID 535 must be set to "Y" on the SFSYS form (5713-1 Record).

9.9 INHIBIT MDNL CW

Description: This field is used in determining whether or not Call Forwarding is inhibited for the master telephone number, the dependent telephone number, or either.

Software Release: 5E15 and later.
Default: NONE
Valid Entries: D, M, or N

Data Rules:

If INVOCATION is not in "TERM", then INHIBIT MDNL CW must be "NONE".

PRECEDENCE AND PREEMPTION

The following fields (Section 9.10 - Section 9.20) are the parameter field for the Precedence and Preemption feature.

Many of the parameters associated with the Precedence and Preemption feature have dependencies. If a parameter entry is made for one of the following, then parameter entries are required for all the following: PREC COI, PREC NON COI, PREEMPTABLE LINE, IMMED PREEMPTION, PREC CPU, FWD IAGP PREC, RECEIVE AV CALLS, DIRECT STA SELECT, ORIGINATE AV CALLS, COI GROUP ID, HOT LINE.

9.10 PREC COI

Description: This field is used to enter the highest authorized precedence level of a call originated from this line to a port in the same COI (Community Of Interest). If a value is not entered, the line may not originate calls to the Autovon Network.

Valid entries are in order of increasing precedence.

Valid PREC COI Entries

Entry	Definition
R	Routine
P	Priority
I	Immediate
F	Flash
FO	Flash Override

Data Rule:
If a PREC COI is specified, then a COI GROUP ID must be entered.

9.11 PREC NON COI

Description: This field is used to enter the highest authorized precedence level of a call originated from this line to a port in a different COI (Community Of Interest). If a value is not entered, the line may not originate calls to the Autovon Network.

Valid entries are in order of increasing precedence.

Valid PREC NON COI Entries

Entry	Definition
R	Routine

P	Priority
I	Immediate
F	Flash
FO	Flash Override
E	Executive

9.12 PREEMPTABLE LINE

Description: Can a line with this feature be preempted?
Valid Entries: Y, N

Data Rule:
If "N" is entered, then IMMED PREEMPTION must also be "N".

9.13 IMMED PREEMPTION

Description: Is Immediate Preemption in effect? Immediate Preemption allows calls of the appropriate priority to preempt, even if Call Waiting or Call Forwarding - Busy Line is in effect.
Valid Entries: Y, N

9.14 PREC CPU

Description: Can Precedence calls be picked up using the Call Pickup feature?
Valid Entries: Y, N

9.15 FWD IAGP PREC

Description: Can an intra-terminal group precedence call, to a line with this feature, be forwarded when the line is Call Forward - Busy or Call Forward - Don't Answer forwarded?
Valid Entries: Y, N

9.16 TERM NETWK CALLS

Description: Can a line with this feature receive incoming calls from the Autovon Network?
Valid Entries: Y, N

Data Rules:

If the DSN OPTION field on the OFCOPT form is "Y", and a Precedence and Preemption feature (defined on a PPFD form) is assigned to this BFG, then TERM NETWK CALLS must be "Y".

9.17 ORIG NETWK CALLS

Description: Can a line with this feature originate calls to the Autovon Network?
Valid Entries: Y, N

Data Rules:

If the DSN OPTION field on the OFCOPT form is "Y", and a Precedence and Preemption feature (defined on a PPFD form) is assigned to this BFG, then ORIG NETWK CALLS must be "Y".

9.18 DIRECT STA SELECT

Description: Can a line with Precedence and Preemption have the Direct Station Selection feature?

Valid Entries: Y, N

Data Rules:

If a "Y" is entered, the line must have an Individualized Dialing feature with a 1-digit no change permitted abbreviated dial list, assigned. A line with this feature may only dial the 1-digit abbreviated dial codes.

9.19 COI GROUP ID

Description: This field is used to enter the COI (Community Of Interest) group ID. A COI is a group of subscribers that originate the majority of their traffic in calls to each other.
Valid Entries: 1 - 20

Data Rules:

If a COI GROUP ID is specified, then a value should be entered in the PREC COI field.

For 5E8 and later, when COI GROUP ID is entered, it must match the CODE INDEX on a PPCOI form (5618-6 Record).

9.20 HOT LINE

Description: This field is used to indicate the type of hot line.

Hot line service is used when the forward number is that of another hot line or when the station only wishes to accept calls from other hot lines. Hot line subscribers can be described as master, slave or neither.

Valid HOT LINE Entries

Entry	Definition
MV	
MD	
SV	
SD	
HV	
HD	

Data Rules:

If HOT LINE is "Y", any TN that is assigned this BFG on a LINEFA form must be associated with an LCC assigned on the LINE form and defined on an LCC form with CLASS OF SERVICE set to "INDIV" or "4WINDIV".

If HOT LINE is "Y", this BFG may not be assigned to a CKT TN or CKT MLHG/TERM defined on a DSLUSR form, nor to an MLHG/TERM defined on an MLHG form. (Hotline Precedence and Preemption features may not be assigned to DSL circuit TNs or to MLHG terminals.)

LASS AUTO CALLBACK

The following field (Section 9.21) is the parameter field for the LASS AUTO CALLBACK feature.

9.21 AC RNGBK TYPE

Description: This field indicates the AC (Automatic Callback) ringback type.

Valid AC RNGBK TYPE Entries

Entry	Definition

A	
B	Indicates a repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on and 4 seconds off.
C	Indicates a 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	Indicates a repeated pattern of 1 second on, 1 second off, 1 second on and 3 seconds off (code 2 ringing).

LASS AUTO RECALL

The following field (Section 9.22) is the parameter field for the LASS AUTO RECALL feature.

9.22 AR RNGBK TYPE

Description: This field indicates the AR (Automatic Recall) ringback type.

Valid AR RNGBK TYPE Entries

Entry	Definition
A	
B	Indicates a repeated pattern of 0.8 seconds on, 0.4 seconds off, 0.8 seconds on and 4 seconds off.
C	Indicates a 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	Indicates a repeated pattern of 1 second on, 1 second off, 1 second on and 3 seconds off (code 2 ringing).

BFG (BRCS Feature Grouping) Parameter Types

Modular Feature Name	Abbreviation	Parameter Type	Record
Account code	ACCT	Group	5625-7
Advanced Service Interface	ASI	Either	5625-4
Attendant Control of Voice Terminals	ACVT	Line	
Authorization Code	ATH	Group	5625-7
Automatic Call Back	ACB	Group	5625-6
Automatic Route Selection	ARS	Either	5625-6
Bulk Calling Line Identification	BCLID	Line	
Call Forwarding	CFW	Line	
Call Pickup - Originating	PUO	Either	5625-5
Call pickup - Terminating	PUT	Either	5625-5
Call Waiting	CWT	Group	5625-8
Calling Party Number/Billing Number	CPNBN	Neither	
Display	DISP	Neither	
Distinctive Ringing	DR	Group	5625-6
Electronic Directory Service	EDS	Either	5625-7
Home Intercom	HI	Neither	5628
Individualized Dialing	ID	Either	5625-3
Intercom	ICM	Line	
LASS Auto Callback	AC	Group	5625-8
LASS Auto Recall	AR	Group	5625-8
Line Identification	LID	Neither	
Message Detail Recording	MDR	Group	5625-7
Message Service System	MS	Line	
Multi-Way Calling	MW	Group	5625-7
Precedence & Preemption	PP	Group	5625-8
Private Facility Access	PFA	Group	5625-4
Terminal Group & Station Restriction	TGSR	Group	5625-3
Time of Day	TOD	Not Allowed	

Figure 1 BFG PARAMETER TYPES

```
SCREEN 1 OF 8                    5ESS Switch
bfg                        OFFICE DATA ADMINISTRATION
(5625-1 thru 8)          BRCS FEATURE GROUP CONSTRUCTION
```

```
(*)1. SELECTION BFGN 1       1   #5. LCC AAA    USE CNT
(*)4. UNIQUE BFGN    ________    #6. RAX 01

                   FEATURE TYPE PARAMETERS - SCREEN NUMBER
       AC          8          ATH           6          MDR           6
       ACBC        5          CPU           4          MW            6
       ACCT        6          CWT           7          PP            7
       AR          8          DR            5          PFA           4
       ARS         5          EDP           6          SC            3
       ASI         4          IDP           3          TGR           3
```

```
SCREEN 2 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

                          7. FEATURE LIST (FEATENT)
ROW  FEATURE  A AC R        ROW  FEATURE  A AC R        ROW  FEATURE  A AC R
 1   ________ _ _  _        11   ________ _ _  _        21   ________ _ _  _
 2   ________ _ _  _        12   ________ _ _  _        22   ________ _ _  _
 3   ________ _ _  _        13   ________ _ _  _        23   ________ _ _  _
 4   ________ _ _  _        14   ________ _ _  _        24   ________ _ _  _
 5   ________ _ _  _        15   ________ _ _  _        25   ________ _ _  _
 6   ________ _ _  _        16   ________ _ _  _        26   ________ _ _  _
 7   ________ _ _  _        17   ________ _ _  _        27   ________ _ _  _
 8   ________ _ _  _        18   ________ _ _  _        28   ________ _ _  _
 9   ________ _ _  _        19   ________ _ _  _        29   ________ _ _  _
10   ________ _ _  _        20   ________ _ _  _        30   ________ _ _  _
```

```
SCREEN 3 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

   INDIVIDUAL DIALING PLAN                   TERMINAL GROUP
 23. IDP GROUP NAME ________    38. GROUP ID _____  44. DISP RESTRICT ____
 24. DPAT CATEGORY  __          39. MOH ALW  _      45. CNIGI         _______
 25. ICR SFG        ____
                                   FORWARD TO DN
       SPEED CALLING            40. ORIGINATING _____________________________
 28. SC1 LIST    ___________    41. TERMINATING _____________________________
 29. SC1 SHARED _
     SC1 CODES                     ERROR ANNCMT ROUTE INDEX
 31. SC2 LIST    ___________    42. ORIGINATING ____
 32. SC2 SHARED _               43. TERMINATING ____
     SC2 CODES
```

```
SCREEN 4 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     PRIVATE FACILITIES                                CALL PICKUP ORIG
49. CSV PFA GRP    ________                      67. ORIG PICKUP GROUP 1 __
50. CSD PFA GRP    ________                      68. ORIG PICKUP GROUP 2 __
51. QUEUE ALLOWED  _                             69. ORIG PICKUP GROUP 3 __
52. PRIORITY QUEUE _                             70. ORIG PICKUP GROUP 4 __
                                                 71. DPU TN      __________
               ADVANCED SERVICE INTERFACE              CALL PICKUP TERM
53. ASI GRP       ________                       72. TERM PICKUP GROUP ____
54. SERV CODE     _____           REMOTE ACCESS
55. ASI SID       __________ 58. RMT BILL      _
56. IP DIAL BILL  _          59. RMT SERV CODE _____
57. EXP DIAL BILL _          60. REC SERV CODE _____
```

```
SCREEN 5 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     DISTINCTIVE RINGING               AUTOMATIC ROUTE SELECTION
 75. RING PTN _             78. CSV ARS GRP    ________     88. DIAL PLAN ___
                            79. CSD ARS GRP    ________
     AUTO CALL BACK         80. TONE TYPE      _____
 76. RINGING PATTERN  _     81. FRL LINE       __
 77. RINGING INTERVAL __    82. USE ALT FRL    _
                            83. ARS SI         __
                            84. ALW MDR RAO    _
                            85. PRIV DN        __________
                            86. QUEUE ALLOWED  _
                            87. PRIORITY QUEUE _
```

```
SCREEN 6 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     AUTHORIZATION CODES                   MESSAGE DETAIL RECORDING
 89. CSV ATH GRP ________              96. MDR GROUP NAME ________
 90. CSD ATH GRP ________
 91. ATH FIRST   _                         ELECTRONIC DIRECTORY SERVICE
 92. ATH FOR AMA _                     97. EDS GRP ________
 93. ATH FOR MDR _
                                           MULTI-WAY CALLING
     ACCOUNT CODE                      98. N-WAYS        _
 94. ACCT GROUP NAME ________          99. TONE DURATION  ____
 95. CODE TABLE NAME ________         100. DIRECT CONN DN _______________
```

```
SCREEN 7 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

        CALL WAITING                    PRECEDENCE AND PREEMPTION
101. CDPTY TONE INTERVAL __             109. PREC COI          __
102. LONG DST DT         ______         110. PREC NON COI      __
                                        111. PREEMPTABLE LINE  _
     CALL WAITING DELUXE                112. IMMED PREEMPTION  _
103. ALERT TYPE    _________            113. PREC CPU          _
104. DFLT OPT      __________           114. FWD IAGP PREC     _
105. USG SENS CONF _______              115. TERM NETWK CALLS  _
                                        116. ORIG NETWK CALLS  _
TALKING CALL WAITING                    117. DIRECT STA SELECT _
106. TCW _                              118. COI GROUP ID      __
                                        119. HOT LINE          __
```

```
SCREEN 8 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     LASS AUTO CALLBACK
 120. AC RNGBK TYPE _

     LASS AUTO RECALL
 121. AR RNGBK TYPE _
```

Figure 2 SAMPLE BFG FORM 5E13 SOFTWARE RELEASE

```
SCREEN 1 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION



(*)1. SELECTION BFGN _______ _   #5. LCC ___    USE CNT
(*)4. UNIQUE BFGN    _______     #6. RAX __

                   FEATURE TYPE PARAMETERS - SCREEN NUMBER
       AC          8          ATH           6          MDR           6
       ACBC        5          CPU           4          MW            6
       ACCT        6          CWT           7          PP            7
       AR          8          DR            5          PFA           4
       ARS         5          EDP           6          SC            3
       ASI         4          IDP           3          TGR           3
```

```
SCREEN 2 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

                          7. FEATURE LIST (FEATENT)
ROW  FEATURE  A AC R        ROW  FEATURE  A AC R        ROW  FEATURE  A AC R
 1   ________ _ _  _        11   ________ _ _  _        21   ________ _ _  _
 2   ________ _ _  _        12   ________ _ _  _        22   ________ _ _  _
 3   ________ _ _  _        13   ________ _ _  _        23   ________ _ _  _
 4   ________ _ _  _        14   ________ _ _  _        24   ________ _ _  _
 5   ________ _ _  _        15   ________ _ _  _        25   ________ _ _  _
 6   ________ _ _  _        16   ________ _ _  _        26   ________ _ _  _
 7   ________ _ _  _        17   ________ _ _  _        27   ________ _ _  _
 8   ________ _ _  _        18   ________ _ _  _        28   ________ _ _  _
 9   ________ _ _  _        19   ________ _ _  _        29   ________ _ _  _
10   ________ _ _  _        20   ________ _ _  _        30   ________ _ _  _
```

```
SCREEN 3 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

   INDIVIDUAL DIALING PLAN                   TERMINAL GROUP
 23. IDP GROUP NAME ________    30. GROUP ID _____  36. DISP RESTRICT ____
 24. DPAT CATEGORY  __          31. MOH ALW  _      37. CNIGI         _________
 25. ICR SFG        ____
                                   FORWARD TO DN
       SPEED CALLING            32. ORIGINATING ________________________________
 26. SC1 LIST    ___________    33. TERMINATING ________________________________
 27. SC1 SHARED _
     SC1 CODES                     ERROR ANNCMT ROUTE INDEX
 28. SC2 LIST    ___________    34. ORIGINATING _____
 29. SC2 SHARED _               35. TERMINATING _____
     SC2 CODES
```

```
SCREEN 4 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     PRIVATE FACILITIES                                CALL PICKUP ORIG
38. CSV PFA GRP    ________                      50. ORIG PICKUP GROUP 1 _____
39. CSD PFA GRP    ________                      51. ORIG PICKUP GROUP 2 _____
40. QUEUE ALLOWED  _                             52. ORIG PICKUP GROUP 3 _____
41. PRIORITY QUEUE _                             53. ORIG PICKUP GROUP 4 _____
                                                 54. DPU TN      __________
               ADVANCED SERVICE INTERFACE              CALL PICKUP TERM
42. ASI GRP       ________                       55. TERM PICKUP GROUP _____
43. SERV CODE     _____           REMOTE ACCESS
44. ASI SID       __________ 47. RMT BILL      _
```

```
45. IP DIAL BILL  _          48. RMT SERV CODE _____
46. EXP DIAL BILL _          49. REC SERV CODE _____
```

```
SCREEN 5 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     DISTINCTIVE RINGING               AUTOMATIC ROUTE SELECTION
 56. RING PTN _             59. CSV ARS GRP    ________     69. DIAL PLAN ___
                            60. CSD ARS GRP    ________
     AUTO CALL BACK         61. TONE TYPE      _____
 57. RINGING PATTERN  _     62. FRL LINE       __
 58. RINGING INTERVAL __    63. USE ALT FRL    _
                            64. ARS SI         __
                            65. ALW MDR RAO    _
                            66. PRIV DN        __________
                            67. QUEUE ALLOWED  _
                            68. PRIORITY QUEUE _
```

```
SCREEN 6 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     AUTHORIZATION CODES                   MESSAGE DETAIL RECORDING
 70. CSV ATH GRP ________              77. MDR GROUP NAME ________
 71. CSD ATH GRP ________
 72. ATH FIRST   _                         ELECTRONIC DIRECTORY SERVICE
 73. ATH FOR AMA _                     78. EDS GRP ________
 74. ATH FOR MDR _
                                                MULTIWAY CALLING
     ACCOUNT CODE                      79. N-WAYS         _
 75. ACCT GROUP NAME ________          80. TONE DURATION  ____
 76. CODE TABLE NAME ________          81. DIRECT CONN DN _______________
```

```
SCREEN 7 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

       CALL WAITING                        PRECEDENCE AND PREEMPTION
 82. CDPTY TONE INTERVAL __                90. PREC COI          __
 83. LONG DST DT         ______            91. PREC NON COI      __
                                           92. PREEMPTABLE       _
    CALL WAITING DELUXE                    93. IMMED PREEMPTION  _
 84. ALERT TYPE    _________               94. PREC CPU          _
 85. DFLT OPT      __________              95. FWD IAGP PREC     _
 86. USG SENS CONF _______                 96. TERM NETWK CALLS  _
                                           97. ORIG NETWK CALLS  _
```

```
 87. TCW            _                       98. DIRECT STA SELECT _
 88. INH CW MASTER _                        99. COI GROUP ID      __
 89. INH CW DEPEND _                        100. HOT LINE         __
```

```
SCREEN 8 OF 8                    5ESS Switch            _
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

 LASS AUTO CALLBACK
 101. AC RNGBK TYPE_

 LASS AUTO RECALL
 102. AR RNGBK TYPE _
```

Figure 3 SAMPLE BFG FORM   5E14 SOFTWARE RELEASE

```
SCREEN 1 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION



(*)1. SELECTION BFGN ________ _   #5. LCC ___    USE CNT
(*)4. UNIQUE BFGN    ________     #6. RAX ___

                   FEATURE TYPE PARAMETERS - SCREEN NUMBER
       AC          8          ATH           6          MDR           6
       ACBC        5          CPU           4          MW            7
       ACCT        6          CWT           7          PP            8
       AR          8          DR            5          PFA           4
       ARS         5          EDP           6          SC            3
       ASI         4          IDP           3          TGR           3
```

```
SCREEN 2 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

                          7. FEATURE LIST (FEATENT)
ROW  FEATURE  A AC R        ROW  FEATURE  A AC R        ROW  FEATURE  A AC R
 1   ________ _ _  _        11   ________ _ _  _        21   ________ _ _  _
 2   ________ _ _  _        12   ________ _ _  _        22   ________ _ _  _
 3   ________ _ _  _        13   ________ _ _  _        23   ________ _ _  _
 4   ________ _ _  _        14   ________ _ _  _        24   ________ _ _  _
 5   ________ _ _  _        15   ________ _ _  _        25   ________ _ _  _
 6   ________ _ _  _        16   ________ _ _  _        26   ________ _ _  _
 7   ________ _ _  _        17   ________ _ _  _        27   ________ _ _  _
```

```
 8   ________ _ _  _        18   ________ _ _  _        28   ________ _ _  _
 9   ________ _ _  _        19   ________ _ _  _        29   ________ _ _  _
10   ________ _ _  _        20   ________ _ _  _        30   ________ _ _  _
```

```
SCREEN 3 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

   INDIVIDUAL DIALING PLAN                   TERMINAL GROUP
 23. IDP GROUP NAME ________    30. GROUP ID _____  36. DISP RESTRICT ____
 24. DPAT CATEGORY  __          31. MOH ALW  _      37. CNIGI         _________
 25. ICR SFG        ____
                                   FORWARD TO DN
       SPEED CALLING            32. ORIGINATING ________________________________
 26. SC1 LIST   ___________     33. TERMINATING ________________________________
 27. SC1 SHARED _
     SC1 CODES                     ERROR ANNCMT ROUTE INDEX
 28. SC2 LIST   ___________     34. ORIGINATING _____
 29. SC2 SHARED _               35. TERMINATING _____
     SC2 CODES
```

```
SCREEN 4 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     PRIVATE FACILITIES                                CALL PICKUP ORIG
38. CSV PFA GRP    ________                      50. ORIG PICKUP GROUP 1 _____
39. CSD PFA GRP    ________                      51. ORIG PICKUP GROUP 2 _____
40. QUEUE ALLOWED  _                             52. ORIG PICKUP GROUP 3 _____
41. PRIORITY QUEUE _                             53. ORIG PICKUP GROUP 4 _____
                                                 54. DPU TN      __________
               ADVANCED SERVICE INTERFACE              CALL PICKUP TERM
42. ASI GRP       ________                       55. TERM PICKUP GROUP _____
43. SERV CODE     _____           REMOTE ACCESS
44. ASI SID       __________ 47. RMT BILL      _
45. IP DIAL BILL  _          48. RMT SERV CODE _____
46. EXP DIAL BILL _          49. REC SERV CODE _____
```

```
SCREEN 5 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     DISTINCTIVE RINGING               AUTOMATIC ROUTE SELECTION
 56. RING PTN _             59. CSV ARS GRP    ________     69. DIAL PLAN ___
                            60. CSD ARS GRP    ________
     AUTO CALL BACK         61. TONE TYPE      _____
 57. RINGING PATTERN  _     62. FRL LINE       __
```

```
 58. RINGING INTERVAL __     63. USE ALT FRL    _
                             64. ARS SI         __
                             65. ALW MDR RAO    _
                             66. PRIV DN        __________
                             67. QUEUE ALLOWED  _
                             68. PRIORITY QUEUE _
```

```
SCREEN 6 OF 8                   5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     AUTHORIZATION CODES                   MESSAGE DETAIL RECORDING
 70. CSV ATH GRP ________              77. MDR GROUP NAME ________
 71. CSD ATH GRP ________
 72. ATH FIRST   _                         ELECTRONIC DIRECTORY SERVICE
 73. ATH FOR AMA _                     78. EDS GRP ________
 74. ATH FOR MDR _                              MULTIWAY CALLING
                                       79. N-WAYS         _
     ACCOUNT CODE                      80. TONE DURATION  ____
 75. ACCT GROUP NAME ________          81. DIRECT CONN DN _______________
 76. CODE TABLE NAME ________
```

```
SCREEN 7 OF 8                   5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

          CALL WAITING                     PRECEDENCE AND PREEMPTION
 82. CDPTY TONE INTERVAL __                    89. PREC COI           __
 83. LONG DST DT        ______                 90. PREC NON COI       __
                                               91. PREEMPTABLE LINE   _
     CALL WAITING DELUXE                       92. IMMED PREEMPTION   _
 84. ALERT TYPE     _________                  93. PREC CPU           _
 85. DFLT OPT       __________                 94. FWD IAGP PREC      _
 86. USG SENS CONF _______                     95. TERM NETWK CALLS   _
                                               96. ORIG NETWK CALLS   _
TALKING CALL WAITING                           97. DIRECT STA SELECT  _
 87. TCW             _                         98. COI GROUP ID       __
                                               99. HOT LINE           __
 88. INHIBIT MDNL CW ______
```

```
SCREEN 8 OF 8                    5ESS Switch
bfg                        OFFICE DATA ADMINISTRATION
(5625-1 thru 8)         BRCS FEATURE GROUP CONSTRUCTION

LASS AUTO CALLBACK
   100. AC RNGBK TYPE_
```

```
  LASS AUTO RECALL
  101. AR RNGBK TYPE _
```

Figure 4 SAMPLE BFG FORM 5E15 THROUGH 5E16(1) SOFTWARE RELEASES

```
SCREEN 1 OF 8                      5ESS Switch
bfg                         OFFICE DATA ADMINISTRATION
(5625-1 thru 8)          BRCS FEATURE GROUP CONSTRUCTION



(*)1. SELECTION BFGN ________ _   #5. LCC ___    USE CNT
(*)4. UNIQUE BFGN    ________     #6. RAX ___    7. CODE RESTRICT ___

                   FEATURE TYPE PARAMETERS - SCREEN NUMBER
       AC          8          ATH           6          MDR           6
       ACBC        5          CPU           4          MW            7
       ACCT        6          CWT           7          PP            8
       AR          8          DR            5          PFA           4
       ARS         5          EDP           6          SC            3
       ASI         4          IDP           3          TGR           3
```

```
SCREEN 2 OF 8                      5ESS Switch
bfg                         OFFICE DATA ADMINISTRATION
(5625-1 thru 8)          BRCS FEATURE GROUP CONSTRUCTION

                          8. FEATURE LIST (FEATENT)
ROW  FEATURE  A AC R        ROW  FEATURE  A AC R        ROW  FEATURE  A AC R
 1   ________ _ _  _        11   ________ _ _  _        21   ________ _ _  _
 2   ________ _ _  _        12   ________ _ _  _        22   ________ _ _  _
 3   ________ _ _  _        13   ________ _ _  _        23   ________ _ _  _
 4   ________ _ _  _        14   ________ _ _  _        24   ________ _ _  _
 5   ________ _ _  _        15   ________ _ _  _        25   ________ _ _  _
 6   ________ _ _  _        16   ________ _ _  _        26   ________ _ _  _
 7   ________ _ _  _        17   ________ _ _  _        27   ________ _ _  _
 8   ________ _ _  _        18   ________ _ _  _        28   ________ _ _  _
 9   ________ _ _  _        19   ________ _ _  _        29   ________ _ _  _
10   ________ _ _  _        20   ________ _ _  _        30   ________ _ _  _
```

```
SCREEN 3 OF 8                      5ESS Switch
bfg                         OFFICE DATA ADMINISTRATION
(5625-1 thru 8)          BRCS FEATURE GROUP CONSTRUCTION
```

```
   INDIVIDUAL DIALING PLAN                   TERMINAL GROUP
 24. IDP GROUP NAME ________    31. GROUP ID _____  37. DISP RESTRICT ____
 25. DPAT CATEGORY  __          32. MOH ALW  _      38. CNIGI         _________
 26. ICR SFG        ____

       SPEED CALLING               FORWARD TO DN
 27. SC1 LIST   ___________     33. ORIGINATING ________________________________
 28. SC1 SHARED _               34. TERMINATING ________________________________
     SC1 CODES
 29. SC2 LIST   ___________        ERROR ANNCMT ROUTE INDEX
 30. SC2 SHARED _               35. ORIGINATING _____
     SC2 CODES                  36. TERMINATING _____
```

```
SCREEN 4 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     PRIVATE FACILITIES                                CALL PICKUP ORIG
40. CSV PFA GRP    ________                      52. ORIG PICKUP GROUP 1 _____
41. CSD PFA GRP    ________                      53. ORIG PICKUP GROUP 2 _____
42. QUEUE ALLOWED  _                             54. ORIG PICKUP GROUP 3 _____
43. PRIORITY QUEUE _                             55. ORIG PICKUP GROUP 4 _____
                                                 56. DPU TN       __________
               ADVANCED SERVICE INTERFACE              CALL PICKUP TERM
44. ASI GRP       ________                       57. TERM PICKUP GROUP _____
45. SERV CODE     _____            REMOTE ACCESS
46. ASI SID       __________ 49. RMT BILL      _
47. IP DIAL BILL  _          50. RMT SERV CODE _____
48. EXP DIAL BILL _          51. REC SERV CODE _____
```

```
SCREEN 5 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     DISTINCTIVE RINGING               AUTOMATIC ROUTE SELECTION
 58. RING PTN _             61. CSV ARS GRP    ________     71. DIAL PLAN ___
                            62. CSD ARS GRP    ________
     AUTO CALL BACK         63. TONE TYPE      _____
 59. RINGING PATTERN  _     64. FRL LINE       __
 60. RINGING INTERVAL __    65. USE ALT FRL    _
                            66. ARS SI         __
                            67. ALW MDR RAO    _
                            68. PRIV DN        __________
                            69. QUEUE ALLOWED  _
                            70. PRIORITY QUEUE _
```

```
SCREEN 6 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

     AUTHORIZATION CODES                   MESSAGE DETAIL RECORDING
 72. CSV ATH GRP ________              79. MDR GROUP NAME ________
 73. CSD ATH GRP ________
 74. ATH FIRST   _                         ELECTRONIC DIRECTORY SERVICE
 75. ATH FOR AMA _                     80. EDS GRP ________
 76. ATH FOR MDR _                              MULTIWAY CALLING
                                       81. N-WAYS         _
     ACCOUNT CODE                      82. TONE DURATION  ____
 77. ACCT GROUP NAME ________          83. DIRECT CONN DN _______________
 78. CODE TABLE NAME ________
```

```
SCREEN 7 OF 8                    5ESS Switch
bfg                       OFFICE DATA ADMINISTRATION
(5625-1 thru 8)        BRCS FEATURE GROUP CONSTRUCTION

          CALL WAITING                     PRECEDENCE AND PREEMPTION
 84. CDPTY TONE INTERVAL __                    91. PREC COI           __
 85. LONG DST DT         ______                92. PREC NON COI       __
                                               93. PREEMPTABLE LINE   _
     CALL WAITING DELUXE                       94. IMMED PREEMPTION   _
 86. ALERT TYPE    _________                   95. PREC CPU           _
 87. DFLT OPT      __________                  96. FWD IAGP PREC      _
 88. USG SENS CONF _______                     97. TERM NETWK CALLS   _
                                               98. ORIG NETWK CALLS   _
TALKING CALL WAITING                           99. DIRECT STA SELECT  _
 89. TCW            _                          100. COI GROUP ID      __
                                               101. HOT LINE          __

 90. INHIBIT MDNL CW ______
```

```
SCREEN 8 OF 8                     5ESS Switch
bfg                        OFFICE DATA ADMINISTRATION
(5625-1 thru 8)         BRCS FEATURE GROUP CONSTRUCTION

LASS AUTO CALLBACK
   102. AC RNGBK TYPE_

  LASS AUTO RECALL
  103. AR RNGBK TYPE _
```

Figure 5 SAMPLE BFG FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 26B: 5626 RECORD
BFG (BRCS FEATURE GROUPING) SUMMARY REPORT

1. GENERAL

The 5626 Record is available with 5E4(2) and later Software Releases. It is designed to provide information that will be used to aid in the construction of BFGs that will provide the maximum usefulness in the switch. The BFG capability can be used to improve Recent Change response time and conserve Switching Module memory. Please refer to the BFG Feature Description (Division 2, Section 1U) for additional information on BFG.

The information on this record is derived from the following forms:

- LINEFA form (5112 Record)
- MLHLNFA form (5113 Record)
- CLUSTR form (5600 Record)
- TGSRFD form (5607-1/2 Record)
- TGSRLPA form (5607-3 Record)
- TGSRMPA form (5607-4 Record)

1.1 BRCS

The BRCS feature assignment forms (LINEFA and MLHLNFA), where the BFGN is not entered, are examined to determine the features assigned. If a Cluster name was used to assign the features, the feature(s) on the CLUSTR form are retrieved.

1.2 TGSR

A master list of the features from each source for each subscriber is created. The master list is examined to determine if a TGSR (Terminal Group and Station Restriction) feature has been assigned to the subscriber. The TGSR forms (TGSRLPA, TGSRMPA, TGSRFD) are referenced to determine the TGID (Terminal Group Identification Number) assigned to the subscriber. Subscriber lines with a TGID are placed in a category and are grouped by their TGID into sub-categories. Subscriber lines without a TGID are placed in another category. Within both categories, subscribers with identical features are grouped together. After all subscriber lines are examined, the report provides the quantity of users, for subscribers with and without TGIDs, by each unique grouping of assigned features.

1.3 BFG Construction

The purpose of the report is to provide information that will aid in the construction of BFGs that will provide the maximum usefulness in the switch.

The following paragraphs describe the contents of the sample 5626 Record in Figure 1.

The first four output lines are related to subscriber lines with BRCS features but without a TGID assigned. These are typically POTS or small business type service lines.

The remainder of the sample report lines are related to subscriber lines with a TGID assigned. The information is sorted by the TGID.

The USER TOTALS column contains the quantity of users for each group of features listed. Example: 12,100 subscribers with features /CFV and /CWC1 and 450 subscribers in TGID 00005 with features CFWFEAT5, IDFEAT5 and TGSFEAT5. Within each category the report lines are sorted in ascending quantity of users.

The five FEATURE columns list the feature names derived from the various feature assignment forms. The feature names are sorted with pre-constructed features before constructed features.

2. REPORT HEADING INFORMATION

2.1 BASE AND CONTROL, ESS UNIT

Enter the Base and Control Number and office name on each record.

2.2 TERMINAL GROUP ID

Description: This column contains the TGID (Terminal Group ID) number associated with the lines. The report is sorted by TGID.

2.3 USER TOTALS

Description: This column contains the quantity of users for each group of features listed. Within each TGID the report lines are sorted in ascending quantity of users.

2.4 FEATURE

Description: The five FEATURE columns list the feature names derived from the various feature assignment forms. The feature names are sorted with pre-constructed features before constructed features.

ESS 5626(5/95)TG-5 BRCS FEATURE GROUPING (BFG) SUMMARY REPORT DATE ___________
clustr, linefa, mlhlnfa, tgsrfd, 5ESS SWITCH
tgsrlpa, tgsrmpa
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

SUMMARY REPORT FOR POTENTIAL BFG CONSTRUCTION							REMARKS
TERMINAL GROUP ID	USER TOTALS	FEATURE	FEATURE	FEATURE	FEATURE	FEATURE	
	00500	/CFV	/CWC1	/MW3WC			
	00700	/CWC1					
	01000	/CFV					
	12100	/CFV	/CWC1				
00005	00025	ACCTFT1	ARSFEAT3	CWTFEAT2	CWTFEAT3	DRFEAT2	
		EDSFEAT1	IDFEAT5	MDRFEAT1	MWFEAT1	MWFEAT7	
		PFAFEAT2	PPFEAT3	TGSFEAT5			
00005	00200	ACBFEAT5	ACCTFT1	ARSFEAT4	CFWFEAT5	DISFEAT5	
		DRFEAT5	EDSFEAT1	IDFEAT5	MDRFEAT8	MWFEAT1	
		PFAFEAT3	PPFEAT4	PUOFT8	PUTFT5	TGSFEAT5	
00005	00300	/MW6WC	CWTFEAT3	CWTFEAT4	DRFEAT4	IDFEAT5	
		TGSFEAT5					
00005	00400	ARSFEAT5	CFWFEAT5	IDFEAT5	PUTFT5	TGSFEAT5	
00005	00450	CFWFEAT5	IDFEAT5	TGSFEAT5			
00005	00600	IDFEAT5	TGSFEAT5				
00010	00004	/ACBC	/CPUDO	/CWACODT	/MWACH2	CFWFEAT5	
		IDFEA10	PPFEAT4	TGSFEA10			

00010	00032	/ACBC	/CPUDO	/CWACODT	/MWACH2	IDFEA10	
		PPFEAT4	TGSFEA10				
00010	00038	/ACBC	/CPUDO	/CPUDT	/CWACODT	/DRATT	
		/MWACH2	CFWFEAT3	CFWFEAT4	IDFEA10	PPFEAT2	
		TGSFEA10					
00010	00040	/ACBC	/CPUDO	/CPUDT	/CWACODT	/DRATT	

Figure 1 SAMPLE 5626 RECORD

SEC. 27: SPEED CALLING FORMS

SEC. 27A: 5627-1 RECORD
SPEED CALLING FEATURE DEFINITION FORM - SCFD

1. GENERAL

1.1 Speed Calling Assignments

The SCFD form (5627-1 Record) is used to define various combinations of Speed Call parameters for lines and trunks. For 5E6 and later Software Releases, it is used instead of the IDFD form (5601 Record) which is used in 5E2 and later Software Releases for defining Individualized Dialing Plan features and 5E5 and earlier Software Releases for defining Speed Calling features.

The need to use a separate form for defining Speed Calling parameters is due to the Disassociate Speed Calling from Individualized Dialing Plan feature. This feature is available in 5E6 and later and allows operating companies to make Speed Call assignments independently from IDP assignments.

For example, disassociating Speed Calling assignments from IDP assignments allows the operating company to assign a different Speed Calling feature, for example two-digit Speed Calling (SC2), to a line or trunk that already has been assigned a Speed Calling feature (SC1) without having to manually delete the existing feature and Speed Call list.

Subscribers can still select Speed Calling while being part of an IDP, however, the operating company no longer has to make the Speed Calling assignments as part of the IDP assignments. Therefore, this disassociation is transparent to the subscriber and does not affect the functionality of either feature.

1.2 Class of Service

For 5E6 and later, when a TN on a LINE form or a CKT TN on a DSLUSR form is assigned an SC feature on the LINEFA, BFG, or associated CLUSTR form, the TN must have an LCC/RAX defined on an LCC form with one of the following values: "4WINDIV", "INDIV", "PBX", "ATND", "TWOPTY", "HOTMOTL", "MODEM", "ISDN", "ISATND".

When an MLHG/TERM on an MLHLN form or a CKT MLHG / CKT TERM on a DSLUSR form is assigned an SC feature on the MLHLNFA, BFG, or associated CLUSTR form, the MLHG/TERM must have an LCC/RAX defined on an LCC form with one of the following values: "4WINDIV", "INDIV", "PBX", "ATND", "HOTMOTL", "MODEM", "ISDN", "ISATND".

1.3 Constructed/Preconstructed Features

Each combination of parameters serves as a constructed (switch owner defined) feature and it is given a feature name of one- to eight-characters. This defined feature name is used to assign the combination of parameters to a particular line or trunk on one of the following forms: the SCLPA form (5627-2 Record), SCMPA form (5627-3 Record) or SCTPA form (5627-4 Record). One of these forms is entered per line or trunk if the default parameters for this line or trunk on the SCFD form are undefined or inappropriate (see Figure 5). When referring to Figure 5, assume all necessary ODP or IDP data has been entered prior to the assignment of the Speed Calling feature.

For 5E6 and later, a line can be assigned up to two SC features (one 1-digit SC feature and/or one 2-digit SC feature). However, assigning two of the same features to one line is not allowed.

Also, if any member of an IDP Group has Speed Calling options, all Speed Calling codes must be defined on the IDPDCA form (5601 Record) for that IDP Group.

Certain SC features are preconstructed by ODA and automatically provided in the ODD (Office Dependent Database) at the time of office registration (see Figure 1). Preconstructed feature names begin with a slash (/); the slash may not be used as the first character of any other feature name except preconstructed feature names.

During a retrofit to the 5E6 Software Release, existing preconstructed and constructed IDP features that are assigned to any lines or trunks will be automatically converted to separate IDP and Speed Calling features. Preconstructed features in the 5E5 Software Release will be converted to two IDP preconstructed features (one for customer change, /IDP1 and one for no customer change, /IDP) and eleven Speed Calling preconstructed features (see Figure 2).

Constructed IDP features with Speed Calling options in the 5E5 Software Release will retain their IDP feature name along with their associated IDP feature data in 5E6 and later . However, any Speed Calling options defined as part of constructed IDP features will be moved automatically to corresponding preconstructed Speed Calling features (see Figure 2). This "evolution" of Speed Calling data includes any parameter data defined on IDPLPA, IDPMPA or IDPTPA forms.

1.4 Recent Change View

The corresponding Recent Change View for this form is 12.51.

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 * FEATURE

Description: This field is used to enter the Speed Call feature name. The first character of the feature name cannot be the slash (/) character. All BRCS feature names must be unique.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: This field is used for any pertinent descriptive remarks.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

The following fields (Section 2.4 - Section 2.5) define speed calling options.

2.4 SC

Description: Enter the Speed Call option.

Required Field.

Valid SC Entries

Entry	Definition
SC1	One-digit Speed Call
SC2	Two-digit Speed Call

2.5 SCC

Description: Is the Speed Call list changeable by the subscriber?

Required Field.
Valid Entries: Y, N

DN SCREENING OPTIONS

The following fields (Section 2.6 - Section 2.23) define Speed Call sequence screening with SC options DNSA through DNSQ for subscribers using one-digit or two-digit changeable Speed Call list codes.

2.6 DN SCREEN

Description: Will Speed Call sequences be screened with SC options DNSA through DNSQ for subscribers using one-digit or two-digit changeable Speed Call list codes?

Required Field.
Valid Entries: Y, N

Data Rules:

Since only customer changeable Speed Calling features are affected by the DN screening options, the value for this field is set by the value of the SCC field. For example, if SCC is set to "Y", DN SCREEN is then set to "Y" and the subscriber is allowed to change their Speed Call list. Conversely, if SCC is "N", then DN SCREEN is "N".

2.7 DNSA

Description: This no-change field is set to "Y" by ODA to allow the Directory Number of another member of the subscriber's terminal group to be stored in the Speed Call list.
Valid Entries: Y, N
Default Value: Y

2.8 DNSB

Description: This no-change field is set to "Y" by ODA to allow a 7- to 10-digit intraoffice number that is not screened by DNSA to be stored in the Speed Call list.
Valid Entries: Y, N
Default Value: Y

2.9 DNSC

Description: This no-change field is set to "Y" by ODA to allow an IntraLATA interoffice number to be stored in the SC list.
Valid Entries: Y, N
Default Value: Y

2.10 DNSD

Description: This no-change field is set to "Y" by ODA to allow an InterLATA number (not including international numbers) to be stored in the SC list.

Valid Entries: Y, N
Default Value: Y

2.11 DNSE

Description: To allow an international number to be stored in the SC list, this no-change field is set to "Y" by ODA.
Valid Entries: Y, N
Default Value: Y

2.12 DNSF

Description: To allow an X-1-1 number (411, 911, etc.) where N is any digit in the range 0-9, this no-change field is set to "Y" by ODA.
Valid Entries: Y, N
Default Value: Y

2.13 DNSG

Description: This no-change field is set to "Y" by ODA to allow a POTS operator number (0, 0 + 7/10 digits or 10XXX + 0 + 7/10 digits) to be stored in the SC list.
Valid Entries: Y, N
Default Value: Y

2.14 DNSH

Description: A POTS feature code with or without subsequent parameters is allowed in the SC list since this field is set to "Y" by ODA.
Valid Entries: Y, N
Default Value: Y

2.15 DNSI

Description: An IDP intercom number is allowed to be stored in the SC list since this field is set to "Y" by ODA. The number remaining after the deleting and prefixing done on the IDPICM form (5601-5 Record) will be subsequently screened by other DN options.
Valid Entries: Y, N
Default Value: Y

2.16 DNSJ

Description: When call processing recognizes an SC code as the dialed number, the stored number referenced by the code is retrieved and screened for other DN options. This retrieved number cannot be another SC code, therefore, this no-change field is set to "N" by ODA.
Valid Entries: Y, N
Default Value: N

2.17 DNSK

Description: Since a PFA (Private Facility Access) code that accesses a non-senderized facility is allowed to be stored in the SC list, this no-change field is set to "Y" by ODA. However, any subsequent digits received after the code has been received may not be stored in the list.

Valid Entries: Y, N
Default Value: Y

2.18 DNSL

Description: Since a PFA (Private Facility Access) code that accesses a senderized facility is allowed to be stored in the SC list, as well as the subsequent digits received after the code is received, this no-change field is set to "Y" by ODA. However, the number of subsequent digits to store is determined on the PFAGPA form (5609-5 Record).
Valid Entries: Y, N
Default Value: Y

2.19 DNSM

Description: An IDP escape to ODP access code is allowed to be stored in the SC list, therefore, this no-change field is set to "Y" by ODA. Subsequent digits received after the code are screened using other DN options.
Valid Entries: Y, N
Default Value: Y

2.20 DNSN

Description: Since an IDP carrier specific code followed by an SC code is allowed to be stored in the SC list, this no-change field is set to "Y". Since the SC code is included, the DNSJ option must be used (no-change DNSJ = "Y") in conjunction with this option.
Valid Entries: Y, N
Default Value: Y

2.21 DNSO

Description: ARS (Automatic Route Selection) codes are allowed to be stored in the SC list, therefore, this no-change field is set to "Y". Digits received after the ARS code are screened with other DN options.
Valid Entries: Y, N
Default Value: Y

2.22 DNSP

Description: Is a PP (Precedence and Preemption) code allowed to be stored in the SC list?

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

2.23 DNSQ

Description: Must the number being forwarded to be connected to a terminal that can receive DSN (Defense Switched Network) calls?

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

DEFAULT PARAMETERS

The following fields (Section 2.24 - Section 2.25) define default parameters that are assigned to a terminal (line or trunk) along with the SC feature. However, if SCLPA, SCMPA and/or SCTPA forms are entered for a particular terminal, the entries made on those forms are used instead of the default parameters entered on this SCFD form.

2.24 SC LIST

Description: Optionally enter a default SC list. Do not enter a value in this field if SCC is "N" (unshared list). When the list is unshared, the SC LIST value is entered by ODA instead of the operating company and will be entered in the following format: the letter "A" followed by a seven-digit TN if the SC list is used by subscriber lines or the letter "A" and a four-digit TGN (for 5E10 and earlier, 0001 to 2000 or for 5E11 and later, 0001 to 4000) followed by a four-digit MEMB (0000 to 1951) if the list is used by trunks.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

For 5E12 and later, when SC SHARED is "Y", SC LIST may not be either "A" followed by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

If the SC list is a shared list (SCC = "Y") the SC LIST field must be entered.

2.25 SC SHARED

Description: Is the SC list shared among two or more subscribers?
Valid Entries: Y, N

Data Rules:

An SC LIST name must be entered for shared lists (SC SHARED = "Y").

Feature Type	5E5 Features (before retrofit)	5E6 Features (after retrofit)
Preconstructed	/IDCTX1	/IDP1, /SC1C, /SC2C
CENTREX	/IDCTX2	/IDP, /SC1C, /SC2
(Business)	/IDCTX3	/IDP
	/IDCTX4	/IDP, /SC1C, /SC2C
	/IDCTX5	/IDP, /SC1
	/IDCTX6	/IDP, /SC1, /SC2
	/IDCTX7	/IDP, /SC1, /SC2C
	/IDCTX8	/IDP, /SC1C
	/IDCTX9	/IDP, /SC2C
	/IDCTX10	/IDP, /SC2
Preconstructed	/IDMVP1	/IDP, /SC1
POTS	/IDMVP2	/IDP, /SC1, /SC2
(Residential)	/IDMVP3	/IDP, /SC1, /SC2C
	/IDSC1D	/SC1
	/IDSC2D	/SC2
	/IDSCBD	/SC1, /SC2

	/IDSC1C /IDSC2C /IDSCB1C /IDSCB2C /IDSCBBC	/SC1C /SC2C /SC1C, /SC2 /SC1, /SC2C /SC1C, /SC2C
Constructured Features	ATTIDP	ATTIDP, /SC1(C) and/or /SC2(C)

Figure 1 PRECONSTRUCTED AND CONSTRUCTED FEATURE ASSIGNMENT CONVERSION TABLE

ESS 5627-1(01)TG-5 SPEED CALLING DATE ___________

FEATURE DEFINITION RECORD

scfd 5ESS SWITCH

12.51

BASE______CONT CR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	FEATURE OPTIONS		DN SCREENING OPTIONS																		DEFAULT PARAMETERS	
		SC	SCC	DN SCREEN	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	SC LIST	SC SHARED
/SC*	WILD CARD FEATURE	SCW	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
/SC1	1-DIGIT SC. NOT CHANGEABLE	SC1	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
/SC1C	1-DIGIT SC. DNSP = Y DNSQ = Y	SC1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
/SC1CP	1-DIGIT SC. DNSP = N DNSQ = Y	SC1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y		
/SC1CPQ	1-DIGIT SC. DNSP = N DNSQ = N	SC1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	N		
/SC1CQ	1-DIGIT SC. DNSP = Y DNSQ = N	SC1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N		
/SC2	2-DIGIT SC. NOT CHANGEABLE	SC2	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
/SC2C	2-DIGIT SC. DNSP = Y DNSQ = Y	SC2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y		
/SC2CP	2-DIGIT SC. DNSP = N DNSQ = Y	SC2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y		
/SC2CPQ	2-DIGIT SC. DNSP = N DNSQ = N	SC	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	N		

/SC2CQ	2-DIGIT SC. DNSP = Y DNSQ = N	2SC2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	N		

Figure 2 PRECONSTRUCTED SPEED CALLING FEATURES 5E6 AND LATER SOFTWARE RELEASES

```
SCREEN 1 OF 2                   5ESS Switch
scfd                       OFFICE DATA ADMINISTRATION
(5627-1)                SPEED CALLING FEATURE DEFINITION

*2. FEATURE    ________            3. REMARKS ________________________________

=============================== FEATURE OPTIONS ===============================

#4. SC         ___
#5. SCC        _
```

```
SCREEN 2 OF 2                   5ESS Switch
scfd                       OFFICE DATA ADMINISTRATION
(5627-1)                SPEED CALLING FEATURE DEFINITION

============================ DN SCREENING OPTIONS ===============================

 6. DN SCREEN _
 7. DNSA Y      11. DNSE Y       15. DNSI Y       19. DNSM Y       23. DNSQ Y
 8. DNSB Y      12. DNSF Y       16. DNSJ N       20. DNSN Y
 9. DNSC Y      13. DNSG Y       17. DNSK Y       21. DNSO Y
10. DNSD Y      14. DNSH Y       18. DNSL Y       22. DNSP Y

============================= DEFAULT PARAMETERS ===============================

24. SC LIST   ________
25. SC SHARED _
```

Figure 3 SAMPLE SCFD FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
SCREEN 1 OF 2                   5ESS Switch
scfd                       OFFICE DATA ADMINISTRATION
(5627-1)                SPEED CALLING FEATURE DEFINITION

*2. FEATURE    ________            3. REMARKS ________________________________

=============================== FEATURE OPTIONS ===============================

#4. SC         ___
```

```
#5. SCC        _
```

```
SCREEN 2 OF 2                     5ESS Switch            _
scfd                       OFFICE DATA ADMINISTRATION
(5627-1)                SPEED CALLING FEATURE DEFINITION

============================ DN SCREENING OPTIONS ===============================

 6. DN SCREEN _
 7. DNSA Y      11. DNSE Y       15. DNSI Y       19. DNSM Y       23. DNSQ Y
 8. DNSB Y      12. DNSF Y       16. DNSJ N       20. DNSN Y
 9. DNSC Y      13. DNSG Y       17. DNSK Y       21. DNSO Y
10. DNSD Y      14. DNSH Y       18. DNSL Y       22. DNSP Y

============================= DEFAULT PARAMETERS ================================

24. SC LIST   ___________
25. SC SHARED _
```

Figure 4 SAMPLE SCFD FORM 5E12 AND LATER SOFTWARE RELEASES

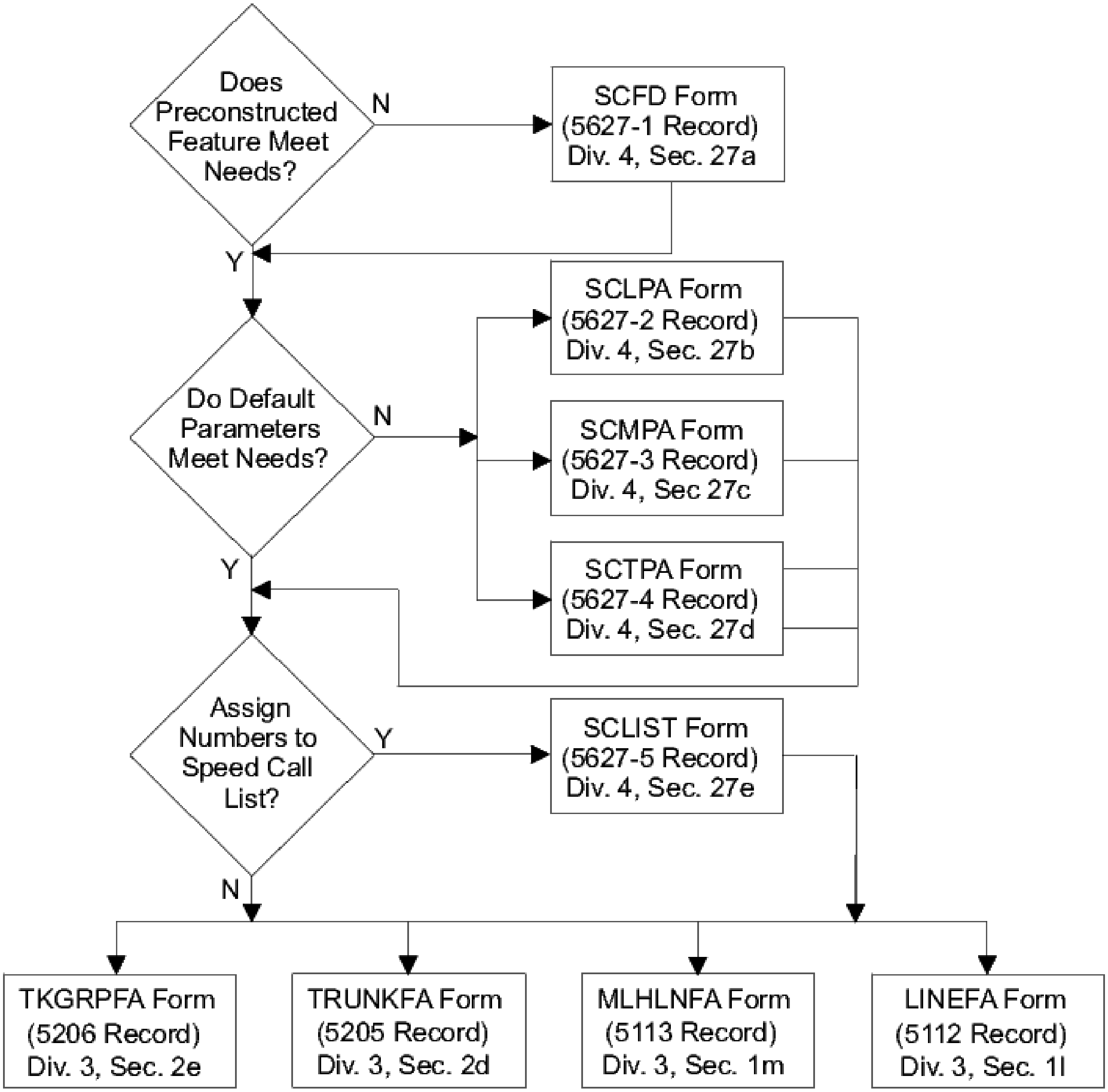

Figure 5 SPEED CALLING FORM FLOW DIAGRAM 5E6 AND LATER SOFTWARE RELEASES

SEC. 27B: 5627-2 RECORD
SPEED CALLING LINE PARAMETER FORM - SCLPA

1. GENERAL

The 5627-2 Record, which is available with 5E6 and later Software Releases, is used to assign Speed Call parameters to non-Multi-Line Hunt lines when the default parameters on the corresponding SCFD form (5627-1 Record) are inappropriate or unspecified. When this record is entered, the line uses the SC (Speed Call) parameters entered on this form instead of the default parameters defined on the SCFD form, however, the line still uses the DN Screening options defined on the SCFD form.

For switch offices undergoing a retrofit from the 5E5 Software Release to the 5E6 Software Release, ODA will change existing constructed and preconstructed features to one of the eleven preconstructed features depending upon the DN screening options and whether or not the SC lists are changeable lists. For 5E6 and later, a line can be assigned up to two SC features (one 1-digit SC feature and/or one 2-digit SC feature). However, assigning two of the same features to one line is not allowed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 1.51.

2. BASE AND CONTROL, ESS UNIT

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

2.1 * TN

Description: Enter the Telephone Number of the line.

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:

The associated service class defined on the LCC form (5306 Record) must one of the following.

Class of Service	
ATND	50B nondata link console line or attendant line
HOTMOTL	Line termination at motel office equipment
INDIV	Individual line
ISDN	ISDN (Integrated Services Digital Network) digital subscriber lines
ISATND	ISDN Attendant Terminal
PBX	Line termination to a Private Branch Exchange
TWOPTY	Two-party line
MODEM	MODEM pool origination for analog line
4WINDIV	Four-wire individual line or four-wire manual PBX

For 5E12 and later, TN/FEATURE combinations on different SCLPA forms cannot be duplicated.

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

2.2 * FEATURE

Description: Enter the SC (Speed Call) feature for which the SC parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

This SC feature must be defined on an SCFD form (5627-1 Record).

2.3 SC LIST

Description: If the line subscribes to a shared list, enter an SC LIST name.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

For 5E11 and earlier, the letter "A" cannot be the first character preceding the seven-digit TN or an eight-digit TN where the first four digits are in the range (for 5E10 and earlier, 0001 to 2000 or for 5E11 and later, 0001 to 4000) while the last four digits are in the range 0001-1951.

For 5E11 and earlier, if the line subscribes to an unshared list, leave this field blank and enter "N" in the SC SHARED field. If the list is unshared, ODA will automatically assign a list name in the following format: the letter "A" followed by the seven-digit TN.

For 5E12 and later:

- When SC LIST is specified, SC SHARED must be entered.
- When SC SHARED is "N" and SC LIST is not entered, SC LIST must be the letter "A" followed by the NPA plus TN.
- When SC SHARED is "N", SC LIST must be the letter "A" followed by the TN.
- When SC SHARED is "N", SC LIST must be the letter "A" followed by NPA plus TN.
- When SC SHARED is "Y" then SC LIST must be entered.
- When SC SHARED is "Y", SC LIST may not be either "A" plus by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

For 5E12 and later, when the SCLPA forms have a 7-digit TN and SC SHARED is "N", the SC LIST TN must be "A" followed by the value of the 7-digit TN prefixed with the NPA from the corresponding NOC form.

2.4 SC SHARED

Description: Can the SC list be shared among two or more users?
Valid Entries: Y, N

Data Rules:

If the list is shared, then SC LIST must be entered.

2.5 NUMBER OF SC CODES

Description: This field is used only by Recent Change.

```
                                 5ESS Switch
sclpa                     OFFICE DATA ADMINISTRATION
(5627-2)              SPEED CALLING (TN) LINE PARAMETERS

*1. TN                 9791091
*2. FEATURE            SC1

 3. SC LIST            SCLIST1
 4. SC SHARED          Y
    NUMBER OF SC CODES
```

Figure 1 SAMPLE SCLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
sclpa                             5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5627-2)              SPEED CALLING (TN) LINE PARAMETERS

*1. TN      __________
*2. FEATURE ________

 3. SC LIST            ___________
 4. SC SHARED          _
    NUMBER OF SC CODES ____
```

Figure 2 SAMPLE SCLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 27C: 5627-3 RECORD
SPEED CALLING
MLHG/TERM LINE PARAMETER FORM - SCMPA

1. GENERAL

The 5627-3 Record, which is available with 5E6 and later Software Releases, is used to assign Speed Call features to Multi-Line Hunt lines when the default parameters defined on the corresponding SCFD form (5627-1 Record) are inappropriate or unspecified. When this record is entered, the line uses the SC (Speed Call) parameters entered on this form instead of the default parameters defined on the SCFD form.

For switch offices undergoing a retrofit from the 5E5 Software Release to the 5E6 Software Release, ODA will change existing constructed or preconstructed features to one of the eleven preconstructed features depending upon DN screening options and whether or not the SC lists are changeable lists. For 5E6 and later, a line can be assigned up to two SC features (one 1-digit SC feature and/or one 2-digit SC feature). However, assigning two of the same features to one line is not allowed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 3.51.

2. BASE AND CONTROL, ESS UNIT

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

2.1 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

2.2 * TERM

Description: Enter the MLHG member number of the line.

Required Field.
Valid Entries: 1 - 2015 and 3001-3999

Data Rules:

The associated class of service defined on the LCC form (5306 Record) must be one of the following.

Class of Service	
ATND	50B non-data link console line or attendant line
HOTMOTL	Line termination at motel office equipment
INDIV	Individual line
ISDN	Integrated Services Digital Network digital subscriber lines
ISATND	ISDN Attendant Terminal
PBX	Line termination to a Private Branch Exchange
TWOPTY	Two-party line
MODEM	MODEM pool origination for analog line

4WINDIV	Four-wire individual line or four-wire manual PBX

2.3 * FEATURE

Description: Enter the SC (Speed Call) feature for which the SC parameters are to be assigned.
Valid Entries: 1 - 8 characters

Data Rules:

This SC feature must be defined on an SCFD form (5627-1 Record).

2.4 SC LIST

Description: If the line subscribes to a shared list, enter an SC LIST name. The name is subject to the following restriction: the letter "A" cannot be the first character preceding the seven-digit TN or an eight-digit TN where the first four digits are in the range (for 5E10 and earlier, 0001 to 2000 or for 5E11 and later, 0001 to 4000) while the last four digits are in the range 0001-1951.

If the line subscribes to an unshared list, enter an SC LIST name with the letter "A" as the first digit followed by the seven-digit TN assigned to the Multi-Line Hunt line. Unshared lists may not be assigned to Multi-Line Hunt lines unless the lines have defined Member TNs.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

When SC LIST is specified, SC SHARED must be entered.

When SC SHARED is "N", SC LIST must be the letter "A" followed by the user's 10-digit TN.

When SC SHARED is "Y", SC LIST may not be "A" followed by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

2.5 SC SHARED

Description: Can the SC list be shared among two or more users?
Valid Entries: Y, N

Data Rules:

If the list is shared, then SC LIST must be entered.

2.6 NUMBER OF SC CODES

Description: This field is used by only RC/V (Recent Change/Verify).

```
*1. MLHG              0021
*2. TERM              0001
*3. FEATURE           SC2

 4. SC LIST           A9791090
 5. SC SHARED         N
    NUMBER OF SC CODES
```

Figure 1 SAMPLE SCMPA FORM   5E11 AND EARLIER SOFTWARE RELEASES

```
scmpa                            5ESS Switch
                         OFFICE DATA ADMINISTRATION
(5627-3)           SPEED CALLING (MLHG/MEMB) LINE PARAMETERS

*1. MLHG    ____
*2. TERM    ____
*3. FEATURE ________

 4. SC LIST           ___________
 5. SC SHARED         _
    NUMBER OF SC CODES ____
```

Figure 2 SAMPLE SCMPA FORM   5E12 AND LATER SOFTWARE RELEASES

SEC. 27D: 5627-4 RECORD
SPEED CALLING TRUNK PARAMETER FORM - SCTPA

1. GENERAL

The 5627-4 Record, which is available with 5E6 and later Software Releases, is used to assign Speed Call features to trunks when the default parameters on the SCFD form (5627-1 Record) are inappropriate or unspecified. When this record is entered, the trunk uses the SC (Speed Call) parameters entered on this form instead of the default parameters defined on the SCFD form.

For switch offices undergoing a retrofit from the 5E5 Software Release to the 5E6 Software Release, ODA will change existing features to one of the eleven preconstructed features depending upon DN screening options and whether or not the SC lists are changeable lists. For 5E6 and later Software Releases, a trunk can be assigned up to two SC features (one 1-digit SC feature and/or one 2-digit SC feature). However, assigning two of the same features to one trunk is not allowed.

1.1 Recent Change View

The corresponding Recent Change view for this form is 5.51.

2. BASE AND CONTROL, ESS UNIT

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

2.1 * TGN

Description: Enter the Trunk Group number of the trunk.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

The associated trunk class defined on the TKGRP form (5202 Record) must be one of the following.

TRKCLS	
Entry	**Definition**
LTOLLCON	Toll connecting
PDID	PBX direct inward dialing, 1-way outgoing
PF	Private Facility
PFITT	Private Facility Intertandem Trunk
PFLASH	Private Facility Feature Flash
PRINTOLL	Primary Intertoll
TTOLLCON	Toll completing
EDSL	Software Release: 5E8 and later. Extended Digital Subscriber Line trunk.
EDSLHM	Software Release: 5E8 and later. EDSL for Hotel/Motel TSPS service.

2.2 * MEMB

Description: Enter the Trunk Group Member number of the trunk.

Required Field.
Valid Entries: 0 - 1951

2.3 * FEATURE

Description: Enter the SC (Speed Call) feature for which the SC parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

This SC feature must be defined on an SCFD form (5627-1 Record).

2.4 SC LIST

Description: If the trunk subscribes to a shared list, enter an SC LIST name.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

For 5E11 and earlier, the letter "A" cannot be the first character preceding the seven-digit TN or an eight-digit TN where the first four digits are in the range (for 5E10 and earlier, 0001 to 2000 or for 5E11 and later, 0001 to 4000) while the last four digits are in the range 0001-1951.

For 5E11 and earlier, if the line subscribes to an unshared list, leave this field blank and enter "N" in the SC SHARED field. If the list is unshared, ODA will automatically assign a list name in the following format: the letter "A" followed by the seven-digit TN.

For 5E12 and later:

- When SC LIST is specified, SC SHARED must be entered.
- When SC SHARED is "Y", SC LIST must be entered.
- Unshared SC LIST must be the trunk's TGN followed by its MEMB.
- When SC SHARED is "Y", SC LIST may not be "A" plus a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

2.5 SC SHARED

Description: Can the SC list be shared among two or more users?
Valid Entries: Y, N

Data Rules:

If the list is shared, then SC LIST must be entered.

2.6 NUMBER OF SC CODES

Description: This field is used only by Recent Change.

```
                                 5ESS Switch
sctpa                     OFFICE DATA ADMINISTRATION
(5627-4)                SPEED CALLING TRUNK PARAMETERS

*1. TGN                 0031
*2. MEMB                1940
*3. FEATURE             SC1

 4. SC LIST             SCLIST2
 5. SC SHARED           Y
    NUMBER OF SC CODES
```

Figure 1 SAMPLE SCTPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
sctpa                             5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5627-4)                SPEED CALLING TRUNK PARAMETERS

*1. TGN     ____
*2. MEMB    ____
*3. FEATURE ________

 4. SC LIST             ___________
 5. SC SHARED           _
    NUMBER OF SC CODES ____
```

Figure 2 SAMPLE SCTPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 27E: 5627-5 RECORD
SPEED CALLING LIST FORM - SCLIST

1. GENERAL

The SCLIST form (5627-5 Record), which is available in 5E6 and later Software Releases, is used for assigning telephone numbers to Speed Calling codes and replaces the ADLIST form (5601-9 Record). The ADLIST form is still used for assigning TNs to Speed Calling codes in 5E5 and earlier Software Releases.

When the STORED SEQUENCE numbers (TNs) are not known at ODA time, and an IDP feature is also asigned to the line or trunk, and this form was *not* entered for any given SC List, memory will be reserved for the list entries for codes 2 through 7 (1-digit lists) or codes 20 through 49 (2-digit lists).

If an IDP feature is not assigned, and this form was *not* entered for any given SC List, then memory will be reserved for the list entries for codes 2 through 9 (1-digit lists) or codes 20 through 49 (2-digit lists).

When any forms are submitted for any given SC List, memory will only be reserved for the codes (1-digit) or ten-code blocks (2-digit) which are entered on the forms. Therefore, when any data is submitted for a 1-digit list, for example, extreme care must be taken to enter all eight codes (or more, if desired) even though the STORED SEQUENECE DNs may not be known for all of the codes. Customer originated changes to the SC Lists will be allowed only for those codes (or ten-code blocks) for which memory has been reserved.

1.1 Shared SC Lists

This form may be submitted for shared SC Lists which are unassigned. However, it may not be submitted for unshared SC Lists which are unassigned. That is, if the SC SHARED field is "N", one LINEFA or MLHLNFA form must also be submitted for a line with the Telephone Number indicated after the "A" in SC LIST. For trunks, either a TRUNKFA form must be submitted for the indicated Trunk Group and Member Number or a TKGRPFA form must be submitted for the indicated Trunk Group and the indicated Member Number defined on a TRUNK form.

1.2 Codes for Office Dialing Plan

The codes 2 through 9 and 20 through 49 are also provided in PDIT-1 defined on the PDIT form (5300-2 Record). If other codes are to be used by subscribers in the ODP (Office Dialing Plan), those codes must be added.

If any member of an IDP Group has Speed Calling options, all Speed Calling codes must be defined on the IDPDCA form (5601 Record) for that IDP Group.

1.3 Recent Change View

The corresponding Recent Change View for this form is 4.2.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *SC LIST

Description: Enter the Speed Call List name.

SC LIST entries for 1-digit and 2-digit lists must be unique. However, the same name may be used for a 1-digit list as for a 2-digit list.

Required Field.
Valid Entries:
For 5E11 and earlier: 1 - 8 characters
For 5E12 and later: up to 11 characters

Data Rules:

For unshared lists assigned to lines, the SC LIST must be the letter "A" followed by the Telephone Number of the line. For this reason, unshared lists may not be assigned to Multi-Line Hunt lines unless the members have Telephone Numbers.

For unshared lists assigned to a trunk, the SC LIST must be the four-digit Trunk Group Number (for 5E10 and earlier, 0001 to 2000 or for 5E11 and later, 0001 to 4000) followed by the four-digit Member Number (0000 to 2015).

For 5E12 and later, when SC SHARED is "Y", SC LIST may not be either "A" followed by a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit member (0000-1951).

For 5E12 and later, when SC SHARED is "N", SC LIST must be "A" plus a 10-digit telephone number or a 4-digit TGN (0001-4000) followed by a 4-digit MEMB (0000-1951).

2.3 *SC CODE BLOCK

Description: Enter 1 or 2 digit SC CODE.

For 1-digit Speed Call lists, enter a "0".

For 2-digit lists, enter the tens digit of the codes which are entered in the SC CODE BLOCK fields, followed by a "0". For example, for the ten SC List codes 20 through 29, enter 20 in SC CODE BLOCK. For 2-digits lists, the valid values of the first digit are *, # and 0 to 9.
Valid Entries: 0 - 9, *, or #

2.4 SC SHARED

Description: Is the list shared? Enter "N" if the list is not shared.
Valid Entries: Y, N

2.5 NUMBER OF SC CODES

Description: This field is for Recent Change/Verify (RC/V) use only.

2.6 TGSR OV

Description: Should the Terminal Group Station Restrictions be overridden when a call is originated using this Speed Calling block? If ORIGINATING RESTRICTION is "FULL" or "SEMI" on the TGSRFD form (5607-1/2 Record), and a call is originated using this Speed Call block, the call is processed as if ORIGINATING RESTRICTION was set to "NONE". Calls originating outside of this SC block are still subject to the specified ORIGINATING RESTRICTION.

Software Release: 5E6 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

This field may be set to "Y" only when SC SHARED is "Y".

SC LIST

The following fields (Section 2.7 - Section 2.8) define SC LIST entries.

2.7 SC CODE

Description: Enter the Speed Call code to be dialed. This code must be defined on an IDPDCA form (5601 Record). For 1-digit lists, up to twelve codes may be specified (*, # and 0 to 9). Since the characters # and * are cursor control codes for the ODA system, it is necessary to follow each of these characters by a blank (space bar) when entering it into the ODA system. For 2-digit lists, the first digit must be the same as the first digit of the SC CODE BLOCK and only ten codes may be specified with each code's last digit in the range 0 to 9. For 2-digit lists where the SC CODE BLOCK starts with a # or *, do not enter the blank, SC CODEs may not be duplicated in the list.

Caution should be used when defining the SC CODEs. If a line uses the ODP (Office Dialing Plan) and "0" is used as an SC CODE, then this subscriber will not be able to reach the operator on a zero minus call. If a terminal (line or trunk) uses an IDP (Individualized Dialing Plan), use discretion when defining codes in the IDPDCA. For instance, if "0" is used for attendant access, or "9" is used for escape to POTS, then those codes can not also be used for SC CODEs.
Valid Entries: 0 - 9, *, or #

Data Rules:

At least one SC CODE must be assigned in the SPEED CALL LIST. For 5E8 only, a minimum of six SC CODEs must be assigned.

For 5E9(1) and later, the entire block of SC CODEs (n0 - n9, where n is the first digit of the SC CODE BLOCK) must be entered for a 2-digit speed call list.

2.8 STORED SEQUENCE

Description: Leave this field blank if the STORED SEQUENCE (Directory Number) is unknown. If the DN is known, enter a string of up to 32 digits which the SC CODE is to access. 0, F, I and P which are applicable to terminals are assigned a Precedence and Preemption feature. See the PPFD form (5618-1 Record).
Valid Entries: 0 - 9, *, #, O, F, I, P

```
sclist                              5ESS Switch
(5627-5)                   OFFICE DATA ADMINISTRATION
                                SPEED CALL LIST

*1. SC LIST       SCLIST1       6. SC LIST:
*2. SC CODE BLOCK 10            ROW  SC CODE        STORED SEQUENCE (SEQ)
```

```
 3. SC SHARED      Y             1      10    9791090
    NUMBER OF SC CODES           2      11    12004441212
 5. TGSR OV        N             3      __    ________________________________
                                 4      __    ________________________________
                                 5      __    ________________________________
                                 6      __    ________________________________
                                 7      __    ________________________________
                                 8      __    ________________________________
                                 9      __    ________________________________
                                10      __    ________________________________
                                11      __    ________________________________
                                12      __    ________________________________
```

Figure 1 SAMPLE SCLIST FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
sclist                             5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5627-5)                         SPEED CALL LIST

*1. SC LIST            ___________                  6. SC LIST:
*2. SC CODE BLOCK      __            ROW SC CODE STORED SEQUENCE (SEQ)
 3. SC SHARED          _               1    __     ________________________________
    NUMBER OF SC CODES ____            2    __     ________________________________
 5. TGSR OV            N               3    __     ________________________________
                                       4    __     ________________________________
                                       5    __     ________________________________
                                       6    __     ________________________________
                                       7    __     ________________________________
                                       8    __     ________________________________
                                       9    __     ________________________________
                                      10    __     ________________________________
                                      11    __     ________________________________
                                      12    __     ________________________________
```

Figure 2 SAMPLE SCLIST FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 28: HOME INTERCOM FORMS

SEC. 28A: 5628 RECORD
HOME INTERCOM FEATURE DEFINITION FORM - HIFD

1. GENERAL

HI/SVP (Home Intercom/Single Line Variety Package) is available with 5E6 and later Software Releases. The feature consists of two options: the Home Intercom Basic feature and the Single Line Variety Package.

The Home Intercom Basic feature allows users to establish a talking path between two or more extensions on a single-party analog line. To create a Home Intercom Basic call, the end-user goes off-hook, receives dial tone, dials their own telephone number and hangs up after receiving busy-tone. After the phone is put on-hook, the switch applies distinctive ringing pattern B (the default pattern) to all extensions on that line. When one or more extensions go off-hook, the ringing stops on all extensions and a voice path is established between all extensions that go off-hook. The voice path remains established until all extensions go on-hook or until the MAX TALK TIME value, defined on the OFCOPT form (5509 Record), is exceeded.

The Single Line Variety Package includes the following enhancements.

- Intercom Code Dialing: allows users to create a Home Intercom call via dial code rather than dialing their own phone number. This enhancement provides the default ringing pattern.
- Selective Intercom Dialing: allows subscribers to create a Home Intecom call by dialing an access code which will provide one of four distinctive ringing patterns.
- Selective Call Transfer: allows subscribers to transfer an outside call to another extension on the same line by flashing to place an outside call on hold, invoking one of the four ringing patterns via dial code and hanging up.
- Dialable Hold: allows subscribers to flash to place an outside call on hold, dial the Dialable Hold dial code, go on-hook and resume the call from any extension.

The Home Intercom feature may be assigned only to analog lines. On the associated LINE form (5109 Record) SHARED and MFRI must be "N", while SERHLN and ASSOC must be blank.

A CLASS OF SERVICE of "INDIV" and a TERMINATING TREATMENT of "AGING" or "INDIV" must be assigned on the associated LCC form (5306 Record).

The feature must be assigned to the line via the LINEFA form (5112 Record), CLUSTR form (5600 Record), or the BFG form (5625 Record). The AC field on the associated LINEFA or CLUSTR form must be set to "N".

The associated lines must not be assigned a Precedence and Preemption feature.

For more information on Home Intercom feature assignment, refer to Division 2, Section 1AT.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.53.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE

Description: Enter the Home Intercom/Single Line Variety feature name. Feature names have no restrictions except feature names starting with a slash (/) are reserved for preconstructed features. Preconstructed features may be reviewed in the ODA database but may not be deleted, changed or inserted.

Required Field.
Valid Entries: 1 - 8 characters

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

2.4 ICM CODE DIAL

Description: Is ICD (Intercom Code Dialing) allowed?

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

2.5 SEL ICM DIAL

Description: Is SID (Selective Intercom Dialing) allowed?

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

Data Rules:

If "Y" is entered, ICM CODE DIAL must be "Y".

2.6 SEL CALL TRANS

Description: Is SCT (Selective Call Transfer) allowed?

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

Data Rules:

If "Y" is entered, SEL ICM DIAL must be "Y" to allow dial code activation of the ringing patterns.

2.7 PRIV CONF

Description: Is private conference allowed during SCT (Selective Call Transfer)? Private conference allows subscribers on the same line to talk before reconnecting the outside call. If "N" is entered, the subscriber will be automatically connected to the held call without using any dial codes.

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

Data Rules:

If "Y" is entered, SEL CALL TRANS must be "Y" to allow dial code activation of the ringing patterns.

2.8 DIAL HOLD

Description: Is DH (Dialable Hold) allowed?

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

2.9 CF ENABLE

Description: Can Home Intercom be activated when call forward variable is active on the line? If "Y" is entered and call forward variable is active, any attempt by the subscriber to dial his/her TN, the call will be forwarded. If "N" is entered, the call will not be forwarded.

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

2.10 MDNL RING

Description: This field determines the ringing pattern that will be used during Home Intercom for lines that have multiple TNs with distinctive ringing (defined on the MTNDR form, 5550 Record).

If "Y" is entered, the master telephone number will receive the Home Intercom default ringing pattern and the dependent TNs will receive the patterns assigned on the MTNDR form.

If "N" is entered, the master telephone number will receive the default Multi-Distinctive Ringing pattern and the dependent TNs will receive the patterns assigned on the MTNDR form.

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

PRECONSTRUCTED HOME INTERCOM FEATURE DEFINITION

FEATURE	REMARKS	FEATURE OPTIONS						
		ICM CODE DIAL	SEL ICM DIAL	SEL CALL TRAN	PRIV CONF	DIAL HOLD	CF ENABLE	MDNL RING
	HOME INTERCOM WILD CARD	Y	Y	Y	Y	Y	Y	Y
/HIBAS1A	HOME INTERCOM BASIC 1A	N	N	N	N	N	Y	Y
/HIBASIC	HOME INTERCOM BASIC	N		N	N	N	N	N
/HISVP	HI SINGLE LINE VARIETY	Y	Y	Y	Y	Y	N	N
/HISVP1A	HI SINGLE LINE VARIETY 1A	Y	Y	Y	Y	Y	Y	Y

Figure 1 PRECONSTRUCTED HOME INTERCOM FEATURES 5E6 AND LATER SOFTWARE RELEASES

```
hifd                                5ESS Switch
(5628)                       OFFICE DATA ADMINISTRATION
                          HOME INTERCOM FEATURE DEFINITION

*2. FEATURE          /HISVP1A      3. REMARKS HI SINGLE LINE VARIETY 1A

============================== FEATURE OPTIONS ================================

 4. ICM CODE DIAL   Y
 5. SEL ICM DIAL    Y
 6. SEL CALL TRANS  Y
 7. PRIV CONF       N
 8. DIAL HOLD       Y
 9. CF ENABLE       Y
10. MDNL RING       Y
```

Figure 2 SAMPLE HIFD FORM 5E6 AND LATER SOFTWARE RELEASES

SEC. 29: BULK CALLING LINE IDENTIFICATION FORMS

SEC. 29A: 5629-1 RECORD
BULK CALLING LINE IDENTIFICATION FEATURE DEFINITION FORM - BCLIDFD

1. GENERAL

The 5629-1 Record is available with 5E8 and later Software Releases, and defines various combinations of options available with the BCLID (Bulk Calling Line Identification) feature.

BCLID is a LASS (Local Area Signaling Service) feature providing call-related information on incoming calls for BRCS/Centrex, Multi-Line Hunt Group, and PBX customers. BCLID provides data only for calls from outside BRCS/Centrex Groups, MLHGs, or PBXs. PBX customers must either have DID (Direct Inward Dialing) capability or be part of an MLHG. This information includes the calling and called party directory number, the time the call was received, the calling line's multi-status indicator (indicating whether the true calling party DN is identified), and the called line's busy/idle status.

For interoffice calls, BCLID requires use of CCS (Common Channel Signaling) so that calling party information can be provided by the originating switch.

See Division 2, Section 1Y for more information on BCLID.

Each feature is given a feature name used to assign the constructed (defined) feature to lines. Certain BCLID features are pre-defined and automatically provided in the ODA database for initial offices, retrofit, or Large Terminal Growth. These are called preconstructed features. Preconstructed feature names all start with a slash (/); therefore, the slash may not be used as the first character of any feature other than preconstructed features. The preconstructed BCLID features are shown in Figure 1.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.62.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE

Description: Enter the BCLID feature name. Constructed feature names have no restrictions on characters, except the slash (/) cannot be the first character. Feature names starting with a slash are reserved for preconstructed features. All BRCS feature names must be unique.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

Only one feature name is allowed to be assigned for a given LINEFA (5112 Record), MLHLNFA (5113 Record), BFG (5625 Record), or associated CLUSTR form (5600 Record).

All BCLID feature names assigned to a BFG must be defined on a BCLIDFD form or be entered in the FEATURE field on an associated CLUSTR form.

All BCLID feature names defined on a BCLIDFD form:

- must not be defined as CLUSTER NAME on a CLUSTR form;
- may not be assigned to trunks via the CLUSTR, TKGRPFA (5206 Record) , or TRUNKFA forms (5205 Record).

Any BCLID feature assigned on a CLUSTR form must be defined on a BCLIDFD form.

Any BCLID feature assigned on a LINEFA or MLHLNFA form must be defined on a BCLIDFD form or as CLUSTER NAME on a CLUSTR form.

If a BCLID feature is assigned on a LINEFA, MLHLNFA, BFG, or associated CLUSTR form with:

- a TN on a LINE form (5109 Record),
- CKT TN on a DSLUSR form (5908 Record),
- MLHG on an MLHLN form (5111 Record), or
- CKT MLHG on a DSLUSR form,

then the LCC or RAX on the LINE, MLHLN, or DSLUSR form must correspond to one of the following as CLASS OF SERVICE on the LCC form (5306 Record): "4WINDIV",

- "ATND",
- "CALLBK" for 5E6 through 5E8 or
- "LTPCLBCK" for 5E9(1) and later,
- "CHGCALL",
- "HOTMOTL",
- "HOTPBX",
- "INDIV",
- "ISATND",
- "ISDN",
- "PBX", and
- "SATSTLN".

For 5E8 only, if an MLHG member is assigned a Bulk Calling Line Identification feature on an MLHLNFA form, the MLHG TERM must be 0001. For 5E9(1) and later, a BCLID feature may be assigned to an MLHG TERM greater than 0001, but in such cases a TN must be entered on the associated MLHLN form, or a CKT MLHG TN must be entered on the associated DSLUSR form; the NONHUNT field on the associated form must be "Y".

2.3 REMARKS

Description: Enter a descriptive comment.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

Fields Section 2.4 -Section 2.6 refer to feature options for BCLID.

2.4 AMA REC

Description: Is the billing "usage-sensitive" and not flat rate? A "Y" means "usage-sensitive", an "N" flat rate.

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

2.5 INTER GRP ONLY

Description: Are BCLID messages sent to the CPE only for inter-terminal group calls? If INTER GRP ONLY is "Y", the BCLID messages are sent for calls originated outside of the terminal group, and no messages are generated for calls originated inside the terminal group of the BCLID termination. If "N", BCLID generates a message for every incoming call (from inside or outside the terminal group) to this terminal group.

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

Data Rules:

If INTER GRP ONLY equals "Y",

- FEATURE on the BFG form associated with this feature must also have FEATURE NAME on the TGSRFD form (5607-1/2 Record) assigned ,
- TN on the LINEFA, BFG, or associated CLUSTR form associated with this feature must also have FEATURE NAME on the TGSRFD form assigned , and
- MLHG on the MLHLNFA, BFG, or associated CLUSTR form associated with this feature must also have FEATURE NAME on the TGSRFD form assigned.

2.6 INCL DATE

Description: Is the date to be included in the BCLID message?

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

DEFAULT PARAMETERS

Field Section 2.7 refers to default parameters.

2.7 BCLID GRP

Description: Enter the name of the BCLID group.
Valid Entries: 1 - 8 characters

Data Rules:

BCLID GRP must match a BCLID GRP on the BCLIDGP form.

If a TN defined on a LINEFA form has a BCLID feature assigned to it on a LINEFA, BFG (5625 Record), or associated CLUSTR form (5600 Record), and there is no TN assigned on a BCLIDLPA form, then BCLID GRP on the BCLIDFD form must be entered.

If an MLHG/MEMB defined on an MLHLNFA form has a BCLID feature assigned to it on an MLHLNFA, BFG (5625 Record), or associated CLUSTR form (5600 Record), and there is no MLHG/MEMB assigned on a BCLIDMPA form, then BCLID GRP on the BCLIDFD form must be entered.

ESS 5629-1(10/92)TG-5 BULK CALLING LINE IDENTIFICATION DATE ___________
FEATURE DEFINITION RECORD
BCLIDFD 5ESS SWITCH
12.62
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	AMA REC	INTER GRP ONLY	INCL DATE	BCLID GRP
/BC	FLAT RATE, NO DATE, NO IG	N	Y	N	
/BCDT	FLAT RATE, DATE, NO IG	N	Y	Y	
/BCDTIG	FLAT RATE, DATE, IG	N	N	Y	
/BCIG	FLAT RATE, NO DATE, IG	N	N	N	
/BCU	USAGE SENSITIVE, NO DATE, NO IG	Y	Y	N	
/BCUDT	USAGE SENSITIVE, DATE, NO IG	Y	Y	Y	
/BCUDTIG	USAGE SENSITIVE, DATE, IG	Y	N	Y	
/BCUIG	USAGE SENSITIVE, NO DATE, IG	Y	N	N	

Figure 1 PRECONSTRUCTED BCLID FEATURES - 5E8 AND LATER SOFTWARE RELEASES

ESS 5629-1(10/92)TG-5 BULK CALLING LINE IDENTIFICATION DATE ___________
FEATURE DEFINITION RECORD
BCLIDFD 5ESS SWITCH
12.62
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	AMA REC	INTER GRP ONLY	INCL DATE	BCLID GRP
/BC	FLAT RATE, NO DATE, NO IG	N	Y	N	

Figure 2 SAMPLE 5629-1 RECORD

```
bclidfd                          5ESS Switch
5629-1                    OFFICE DATA ADMINISTRATION
                  BULK CALLING LINE IDENTIFICATION FEATURE DEFINITION

*2. FEATURE    /BC            3. REMARKS    FLAT RATE, NO DATE, NO IG

============================== FEATURE OPTIONS ==============================

4. AMA REC    N
5. INTER GRP ONLY  Y
6. INCL DATE  N

============================ DEFAULT PARAMETERS ============================
```

7. BCLID GRP _________

Figure 3 SAMPLE BCLIDFD FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 29B: 5629-2 RECORD
BULK LINE CALLING IDENTIFICATION GROUP PARAMETERS FORM - BCLIDGP

1. GENERAL

The 5629-2 Record is available with 5E8 and later Software Releases, and defines the group information associated with the BCLID (Bulk Calling Line Identification) feature.

See Division 2, Section 1Y for more information on BCLID.

Each terminal (line or trunk) that will use the BCLID capability must be assigned a BCLID feature identification (defined on the BCLIDFD form (5629-1 Record)) on a LINEFA (5112 Record), MLHLNFA (5113 Record), TKGRP (5202 Record), BFG (5625 Record) or CLUSTR form (5600 Record). In addition, each terminal must be assigned to a BCLID group which may be defined as the default parameter on the BCLIDFD form or on an individual terminal basis with the BCLIDLPA (5629-3 Record) or BCLIDMPA (5629-4 Record) forms. The preconstructed BCLID feature provided does not specify the BCLID group. Therefore, if the preconstructed feature is used, individual parameter forms must be entered for each terminal.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.62.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * BCLID GRP

Description: Enter the name of BCLID Group.

Required Field.
Valid Entries: 1 - 8 characters

2.3 # BCID

Description: Enter a BCID (Business Customer Identification).

Required Field.
Valid Entries: 1 - 65535

2.4 # AP SITE ID

Description: Enter the AP (Application Processor) Identification number associated with this BCLID Group.

Required Field.
Valid Entries: 1 - 255

Data Rules:

An AP SITE ID assigned on this form must not equal AP SITE ID on a DSLAP form (5963 Record) having E911 SITE equal to "Y".

2.5 ALT AP SITE ID

Description: Enter the alternate Application Processor Identification number associated with this BCLID Group. This ID specifies an alternate destination AP to send BCLID messages when the primary AP is unavailable to receive messages.
Valid Entries: 1 - 255

Data Rules:

ALT AP SITE ID cannot equal AP SITE ID.

An ALT AP SITE ID assigned on this form must not equal AP SITE ID on a DSLAP form having E911 SITE equal to "Y".

2.6 GRP ACTIVE

Description: Is BCLID GRP active?

If the group is active, all the incoming calls to all the terminals associated with this group are recorded normally by BCLID.

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

NPA - NXX GROWTH

2.7 BCLID TN 10

Description: This field indicates whether or not a 10 digit called party TN is to be sent over the AP link. Enter "Y" if a 10 digit called party TN is to be sent; otherwise, enter "N". This field supports the Number Portability - NPA-NXX Growth secured feature, see Division 2, Section 4A198.

Software Release: 5E12 and later
Valid Entries: Y, N

ESS 5629-2(06/97)TG-5 BULK LINE CALLING LINE IDENTIFICATION DATE ___________
GROUP PARAMETERS
BCLIDGP 5ESS SWITCH
4.62
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

BCLID GRP	BCID	AP SITE ID	ALT AP SITE ID	G A R C P T I V E	B T C N L I 1 D 0
BCLID GRP	BCID	AP SITE ID	ALT AP SITE ID	G A R C P T I V	B T C N L I 1 D 0

				E	

Figure 1 SAMPLE 5629-2 RECORD

```
bclidgp                           5ESS Switch
(5629-2)                    OFFICE DATA ADMINISTRATION
             BULK CALLING LINE IDENTIFICATION GROUP PARAMETERS

*1. BCLID GRP      AT&T
#2. BCID           00001
#3. AP SITE ID     001
 4. ALT AP SITE ID ___
 5. GRP ACTIVE     Y
```

Figure 2 SAMPLE BCLIDGP FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
bclidgp                            5ESS Switch
                            OFFICE DATA ADMINISTRATION
(5629-2)       BULK CALLING LINE IDENTIFICATION GROUP PARAMETERS

*1. BCLID GRP      ________
#2. BCID           _____
#3. AP SITE ID     ___
 4. ALT AP SITE ID ___
 5. GRP ACTIVE     Y

  NPA-NXX GROWTH
 6. BCLID TN 10 N
```

Figure 3 SAMPLE BCLIDGP FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 29C: 5629-3 RECORD
BULK CALLING LINE IDENTIFICATION LINE PARAMETER FORM - BCLIDLPA

1. GENERAL

The 5629-3 Record is available with 5E8 and later Software Releases, and defines BCLID (Bulk Calling Line ID) Line Parameters. The Line Parameter Form is used when a BCLID constructed feature is assigned to a "non-Multi-Line Hunt line and the desired parameters are different from the default parameters on the BCLIDFD form (5629-1 Record).

See Division 2, Section 1Y for more information on BCLID.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.62.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number of the BCLID customer.

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:

A TN assigned to a BCLID feature on this form must equal the TN defined on the LINEFA form where the BCLID feature is assigned to that feature via a LINEFA, BFG (5625 Record), or associated CLUSTR form (5600 Record).

For 5E9 and later, when TN(s) have a FEATURE assigned on the BCLIDLPA form, the FEATURE must be defined on the corresponding BCLIDFD form.

For 5E12 and later, TNs on different BCLIDLPA forms can not be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the BCLIDLPA 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 # FEATURE

Description: Enter the BCLID feature name for which the BCLID group parameter is to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

This feature name must be defined on the BCLIDFD form.

2.4 # BCLID GRP

Description: Enter the name of the BCLID group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

BCLID GRP must equal BCLID GRP on a BCLIDGP form (5629-2 Record).

ESS 5629-3(8/97)TG-5 BULK LINE CALLING LINE IDENTIFICATION DATE ___________
TN PARAMETERS
BCLIDLPA 5ESS SWITCH
1.62
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

TN	FEATURE	BCLID GRP
TN	FEATURE	BCLID GRP

Figure 1 SAMPLE 5629-3 RECORD

```
bclidlpa                          5ESS Switch
5629-3                     OFFICE DATA ADMINISTRATION
                BULK CALLING LINE IDENTIFICATION TN PARAMETERS

*1. TN        _______
#2. FEATURE   ________
#3. BCLID GRP ________
```

Figure 2 SAMPLE BCLIDLPA FORM 5E11 AND EARLIER SOFTWARE RELEASES

```
bclidlpa                           5ESS Switch
                           OFFICE DATA ADMINISTRATION
(5629-3)        BULK CALLING LINE IDENTIFICATION TN PARAMETERS

*1. TN        __________
#2. FEATURE   ________
#3. BCLID GRP ________
```

Figure 3 SAMPLE BCLIDLPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 29D: 5629-4 RECORD
BULK CALLING LINE IDENTIFICATION MULTI-LINE HUNT GROUP PARAMETERS FORM - BCLIDMPA

1. GENERAL

The 5629-4 Record is available with 5E8 and later Software Releases, and defines BCLID (Bulk Calling Line Identification) Multi-Line Hunt line parameters. The Line (MLHG/TERM) Parameter Form is used when a BCLID constructed feature is assigned to a Multi-Line Hunt line, and the desired parameters are different from the default parameters on the BCLIDFD form (5629-1 Record).

See Division 2, Section 1Y for more information on BCLID.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.62.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group of the line.

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

Data Rules:

An MLHG assigned to a BCLID feature on this form must equal the combination of MLHG and MEMB defined on an MLHLNFA form, where the BCLID feature is assigned to that MLHG via an MLHLNFA, BFG (5625 Record), or associated CLUSTR form (5600 Record).

For 5E9 and later, when MLHG/TERMS have a FEATURE assigned on the BCLIDMPA form, the FEATURE must be defined on the corresponding BCLIDFD form.

2.3 MEMB

Description: This is a no change field and is defaulted to 0001. This is because the BCLID feature cannot be assigned to Multi-Line Hunt Group members other than 1.
Default: 1
Valid Entries: 1

2.4 # FEATURE

Description: Enter the BCLID feature name for which the BCLID group parameter is to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

This feature name must be defined on the BCLIDFD form.

2.5 # BCLID GRP

Description: Enter the name of the BCLID group.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

BCLID GRP must equal BCLID GRP on a BCLIDGP form (5629-2 Record).

ESS 5629-4(10/92)TG-5 BULK LINE CALLING LINE IDENTIFICATION DATE ___________

MLHG/MEMB PARAMETERS
BCLIDMPA 5ESS SWITCH
1.62
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

MLHG	MEMB	FEATURE	BCLID GRP
MLHG	MEMB	FEATURE	BCLID GRP

Figure 1 SAMPLE 5629-4 RECORD

```
bclidmpa                          5ESS Switch
5629-4                     OFFICE DATA ADMINISTRATION
             BULK CALLING LINE IDENTIFICATION MLHG/MEMB PARAMETERS

*1. MLHG      0369
    MEMB      0001
#3. FEATURE   /BCUDTIG
#4. BCLID GRP AT&T
```

Figure 2 SAMPLE BCLIDMPA FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 30: ADVANCED SERVICE INTERFACE FORMS

SEC. 30A: 5630-1 RECORD
ADVANCED SERVICE INTERFACE FEATURE DEFINITION FORM - ASIFD

1. GENERAL

The 5630-1 Record is available with the 5E8 and later Software Releases, and contains information needed to describe the ASI (Advanced Service Interface) Proxy.

The ASI (Advanced Service Interface) Proxy is a secured feature providing a 5ESS Switch-based platform for connecting non-ISDN customers to an IP (Intelligent Peripheral). The IP provides automated call handling to subscribers. The ASI Proxy capability on the Switch does not provide the automated call handling by itself; rather, the IP acts as a subscriber "proxy" and provides the switch with the sequences of instructions for call handling, call extension and feature access.

The ASI Proxy capability, which is implemented as a BRCS terminal feature, provides two modes of operation:

- *Implicit Mode* allows the IP to be silently, directly connected onto the subscriber's phone upon origination or secondary dial tone. In this mode, the IP may:
  - Provide information to the subscriber upon origination of a call (through an announcement, dial tone, etc.);
  - Accept non-dialed (such as verbal) non-DTMF user requests and initiate dialing on the subscriber's behalf (dialing by the customer disconnects the IP);
  - Remain silent and wait for explicit invocation.

The subscriber can activate or deactivate the implicit mode feature by a CORC (Customer Originated Recent Change) toggle defined in the ODP. This toggle reverses the current status of the implicit mode feature. The subscriber must have the Implicit ASI Proxy feature assigned.

In this mode, the IP may also be used to provide auto dialing (call extension, feature activation) functions for the subscriber.

- *Explicit Mode* allows the subscriber to dial an ASI Proxy access code to communicate at length with the IP. In this mode, the Switch provides dial pulse to Touch-Tone conversion when necessary and passes along any customer dialed digits ending with "#" to the IP. The IP is also able to dial on behalf of the subscriber.

See Division 2, Section 4A93 for more information on ASI Proxy.

Each feature is given a feature name used to assign the constructed (defined) feature to lines. Certain ASI Proxy features are predefined and automatically provided in the ODA database for initial offices, retrofit, or Large Terminal Growth. These are called preconstructed features. Preconstructed feature names all start with a slash (/); therefore, the slash may not be used as the first character of any feature other than preconstructed features. The preconstructed ASI Proxy features are shown in Figure 1.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE

Description: Enter the name of the ASI Proxy feature being constructed. Constructed feature names have no restrictions on characters, except the slash (/) cannot be the first character. Feature names starting with a slash are reserved for preconstructed features. All BRCS feature names must be unique.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

ASI Proxy features must not be assigned to trunks, nor to a Secondary Only TN or Secondary Only MLHG/TERM NBR on an SHTN form (5902 Record).

All ASI Proxy feature names defined on an ASIFD form must not be defined as CLUSTER NAME on a CLUSTR form (5600 Record), and any ASI Proxy feature assigned on a CLUSTR form must be defined on an ASIFD form.

Any ASI Proxy feature assigned on a LINEFA (5112 Record) or MLHLNFA (5113 Record) form must be defined on an ASIFD form, or as CLUSTER NAME on a CLUSTR form.

All ASI Proxy feature names assigned to a BFG must be defined on an ASIFD form, or be entered in the FEATURE field on an associated CLUSTR form.

An ASIFD feature name:

- may not be assigned to an MLHG/TERM via the MLHLNFA, CLUSTR, or BFG form (5625 Record)
  - — unless the MLHG/TERM has a TN entered on the associated MLHLN form (5111 Record);
  - — unless the LCC and RAX entered on the associated MLHLN form is defined on an LCC form (5306 Record) with a CLASS OF SERVICE of "INDIV";
  - — when SHARED equals "Y" on the associated MLHLN form;
  - — when an HIFD Feature Name is assigned to the line.
- may not be assigned to a line via the LINEFA, CLUSTR, or BFG form
  - — unless the LCC and RAX entered on the associated LINE form (5109 Record) is defined on an LCC form with a CLASS OF SERVICE of "INDIV";
  - — when SHARED equals "Y" on the associated LINE form;
  - — using LTSB (Line Time Slot Bridging).
- may not be assigned to a TN

  - — via the LINEFA, CLUSTR, or BFG form when an HIFD Feature Name is assigned to the line;
  - — (or CKT TN) defined on a DSLUSR form (5908 Record).

- may not be assigned to a CKT MLHG defined on a MLHLNFA, CLUSTER, or BFG form.

Only one ASIFD Feature Name:

- is allowed to be assigned to a line via the MLHLNFA,LINEFA, BFG, or CLUSTR form(s);
- is allowed for a given BFG or its associated CLUSTR form(s).

For 5E9(1) and later, FEATUREs assigned on a BFG form, CLUSTR form, LINEFA form or an MLHLNFA form and have R set to "Y" indicating that RAS (Remote Access Services) are desired, the FEATURE must be defined on a CFWFD form or on an ASIFD form.

For 5E9(1) and later, when BFG forms or associated CLUSTR form(s) have the field R set to "Y" for one or more FEATUREs defined on an ASIFD form one of the following conditions must be true:

- When ASI GRP is entered on the BFG form RMT SERV CODE and REC SERV CODE must be entered on the BFG form.
- When ASI GRP is not entered on the BFG form RMT SERV CODE and REC SERV CODE must be entered on the ASIFD form.

2.3 REMARKS

Description: Enter a descriptive comment about the feature.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

Fields Section 2.4 - Section 2.5 refer to feature options.

2.4 # IMP ACC

Description: Is implicit access to the IP desired?

Required Field.
Valid Entries: Y, N

Data Rules:

IMP ACC and EXP ACC cannot both be "N", but may both be "Y".

2.5 # EXP ACC

Description: Is explicit access to the IP desired?

Required Field.

Valid Entries: Y, N

Data Rules:

IMP ACC and EXP ACC cannot both be "N", but may both be "Y".

For a TN assigned an ASI Proxy feature on either the LINEFA, CLUSTR, or BFG form, or an MLHG/TERM assigned an ASI Proxy feature on either the MLHLNFA, CLUSTR, or BFG form, if EXP ACC equals "Y", then ACTION on the IDPDCA (5601-1/2 Record) or PDIT form (5300-2 Record) must equal "ASIUSE", and FEATURE on the IDPDCA or PDIT form must be the ASI Proxy feature assigned on this ASIFD form, or the ASI Proxy wild-card feature (/AS*).

DEFAULT PARAMETERS

Fields Section 2.6 - Section 2.10 refer to default parameters.

2.6 ASI GRP

Description: Enter the name of the ASI Proxy group to be used by the ASI Proxy feature.
Valid Entries: 1 - 8 characters

Data Rules:

ASI GRP must be defined on a corresponding ASIGP form (5630-4 Record).

2.7 SERV CODE

Description: Enter the service code defining the services allowed during implicit mode access to the IP.
Valid Entries: up to 5 digits, consisting of 0 - 9, * , or #

Data Rules:

If ASI GRP and SERV CODE are both entered, they must be defined on a corresponding ASIGP form.

If an ASI feature is assigned to a TN and defined on an ASIFD form with IMP ACC equals "Y", then SERV CODE must be entered, if not entered on an ASILPA,ASIMPA, or BFG form.

2.8 SID

Description: Enter the Subscriber ID used to identify the subscriber to the IP. If not specified, the SID is the TN of the line.
Valid Entries: up to 10 digits, consisting of 0 - 9, *, or #

2.9 IP DIAL BILL

Description: Does the subscriber want AMA (Automatic Message Accounting) billing records for an otherwise non-billable call dialed by the IP?
Default: N
Valid Entries: Y, N

2.10 EXP DIAL BILL

Description: Does the subscriber want AMA records for an explicit connection to the IP?
Default: N

Valid Entries: Y, N

Data Rules:

If EXP DIAL BILL is "Y", EXP ACC must be "Y".

REMOTE ACCESS

The RASI (Remote Access to ASI) feature is built upon the base ASI-Proxy (Advanced Service Interface) capability. The Remote Access to ASI will allow remote access to automated call handling, call extension and feature access.

Fields Section 2.11 - Section 2.13 refer to remote access capability.

2.11 RMT BILL

Description: Is billing for remote access to intelligent peripheral required?
Default: N
Valid Entries: Y, N

2.12 RMT SERV CODE

Description: Enter the Remote Service Code used to define the set of services allowed during remote access to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

Data Rules:

When RMT SERV CODE is entered, REC SERV CODE must be entered.

For 5E9(1) and later, TN(s) that have the field R set to "Y" for one or more FEATUREs on the LINEFA form, CLUSTR form or an associated BFG form and the FEATURE is defined on an ASIFD form, the RMT SERV CODE and REC SERV CODE must be entered on an ASILPA form or on an ASIFD form (if an ASILPA form does not exist.).

For 5E9(1) and later, MLHG/TERM(s) that have the field R set to "Y" for one or more FEATUREs on the MLHLNFA form, CLUSTR form or an associated BFG form and the FEATURE is defined on an ASIFD form, the RMT SERV CODE and REC SERV CODE must be entered on an ASIMPA form or on an ASIFD form (if an ASIMPA form does not exist.).

CODE are entered, the R field for the associated feature must be set to "Y" on the MLHLNFA, or CLUSTR forms.

2.13 REC SERV CODE

Description: Enter the Remote Reconnect Service Code used to define the set of services allowed during a remote reconnect to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

Data Rules:

When REC SERV CODE is entered, RMT SERV CODE must be entered.

ESS 5630-1(12/94)TG-5 ADVANCED SERVICE INTERFACE DATE ___________
FEATURE DESCRIPTION RECORD
ASIFD 5ESS SWITCH
12.61
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	FEATURE OPTIONS		DEFAULT PARAMETERS					REMOTE ACCESS		
		IMP ACC	EXP ACC	ASI GRP	SERV CODE	SID	IP DIAL BILL	EXP DIAL BILL	RMT BILL	RMT SERV CODE	REC SERV CODE
/AS*	ASI WILDCARD FEATURE	Y	Y				N	N	N		
/ASEX	ASI EXPLICIT	N	Y				N	N	N		
/ASIM	ASI IMPLICIT	Y	N				N	N	N		
/ASIX	ASI IMPLICIT AND EXPLICIT	Y	Y				N	N	N		

Figure 1 PRECONSTRUCTED ASI FEATURES - 5E8 AND LATER SOFTWARE RELEASES

ESS 5630-1(12/94)TG-5 ADVANCED SERVICE INTERFACE DATE ___________
FEATURE DESCRIPTION RECORD
ASIFD 5ESS SWITCH
12.61
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	FEATURE OPTIONS		DEFAULT PARAMETERS					REMOTE ACCESS		
		I	E	ASI GRP	SER	SID	I	E	R	RMT	REC

		MPACC	XPACC		VCODE		PDIAL BILL	XPDIAL BILL	MTBILL	SERVCODE	SERV CODE

Figure 2 SAMPLE 5630-1 RECORD

```
asifd                            5ESS Switch
(5630-1)                  OFFICE DATA ADMINISTRATION
                ADVANCED SERVICE INTERFACE FEATURE DEFINITION

*2. FEATURE ________                3. REMARKS ________________________________

============================  FEATURE OPTIONS  =================================
#4. IMP ACC _
#5. EXP ACC _

=========================== DEFAULT PARAMETERS =================================
 6. ASI GRP       ________            REMOTE ACCESS
 7. SERV CODE     _____           11. RMT BILL      N
 8. SID           __________      12. RMT SERV CODE _____
 9. IP DIAL BILL  N               13. REC SERV CODE _____
10. EXP DIAL BILL N
```

Figure 3 SAMPLE ASIFD FORM   5E8 AND LATER SOFTWARE RELEASES

SEC. 30B: 5630-2 RECORD
ADVANCED SERVICE INTERFACE LINE (TN) PARAMETER FORM - ASILPA

1. GENERAL

The 5630-2 Record is available with 5E8 and later Software Releases, and provides a means to create an ASI (Advanced Service Interface) Proxy Line form which overrides the Default Parameters on the corresponding ASIFD form (5630-1 Record).

See Division 2, Section 4A93 for more information on ASI Proxy.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the TN of the line.

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 5E9(1) and later, TN(s) assigned an Advanced Service Interface Feature on the ASILPA form must have the TN assigned on a corresponding LINEFA form with the same FEATURE defined on either the LINEFA, BFG or associated CLUSTR form.

For 5E12 and later, TN/FEATURE combinations on different ASILPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit digit TNs on the ASILPA 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 * FEATURE

Description: Enter the name of the ASI Proxy feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

FEATURE must be defined on the corresponding ASIFD form.

2.4 # ASI GRP

Description: Enter the name of the ASI Proxy group to be used by the ASI Proxy feature.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

ASI GRP must be defined on a corresponding ASIGP form (5630-4 Record).

2.5 SERV CODE

Description: Enter the service code defining the services allowed during implicit mode access to the IP (Intelligent Peripheral).
Valid Entries: up to 5 digits, consisting of 0 - 9, *, or #

Data Rules:

If ASI GRP and SERV CODE are both entered, they must be defined on a corresponding ASIGP form.

If an ASI Proxy feature is assigned to a TN and defined on an ASIFD form with IMP ACC equals "Y", then SERV CODE must be entered, if not entered on that ASIFD form or a BFG form.

2.6 SID

Description: Enter the Subscriber ID used to identify the subscriber to the IP. If not specified, the SID is the TN of the line.
Valid Entries: up to 10 digits, consisting of 0 - 9, *, or #

2.7 IP DIAL BILL

Description: Does the subscriber want AMA (Automatic Message Accounting) billing records for an otherwise non-billable call dialed by the IP?

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

2.8 EXP DIAL BILL

Description: Does the subscriber want AMA records for an explicit connection to the IP?

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

Data Rules:

If EXP DIAL BILL equals "Y", EXP ACC on the corresponding ASIFD form must equal "Y".

REMOTE ACCESS

The RASI (Remote Access to ASI) feature is built upon the base ASI-Proxy (Advanced Service Interface) capability. The Remote Access to ASI will allow remote access to automated call handling, call extension and feature access.

Fields Section 2.9 - Section 2.11 refer to remote access capability.

2.9 RMT BILL

Description: Is billing for remote access to intelligent peripheral required?
Default: N
Valid Entries: Y, N

2.10 RMT SERV CODE

Description: Enter the Remote Service Code used to define the set of services allowed during remote access to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

Data Rules:

When RMT SERV CODE is entered, REC SERV CODE must be entered.

For 5E9(1) and later, TN(s) that have the field R set to "Y" for one or more FEATUREs on the LINEFA form, CLUSTR form or an associated BFG form and the FEATURE is defined on an ASIFD form, the RMT SERV CODE and REC SERV CODE must be entered on an ASILPA form or on an ASIFD form (if an ASILPA form does not exist.).

2.11 REC SERV CODE

Description: Enter the Remote Reconnect Service Code used to define the set of services allowed during a remote reconnect to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

Data Rules:

When REC SERV CODE is entered, RMT SERV CODE must be entered.

ESS 5630-2(12/94)TG-5
ADVANCED SERVICE INTERFACE
LINE (TN) PARAMETER FORM
5ESS SWITCH
DATE ___________

ASILPA
1.61
BASE______CONT GR____
5ESS UNIT ___________________
PAGE______

TN	FEATURE	ASI GRP	SER V CODE	SID	IP DIA	EX PDI	REMOTE ACCESS		
							RMT B	RMT SERV CO	REC SERV CODE

					L B I L L	A L B I L L L	I L L	D E	

Figure 1 SAMPLE 5630-2 RECORD

```
asilpa                          5ESS Switch
(5630-2)                 OFFICE DATA ADMINISTRATION
               ADVANCED SERVICE INTERFACE LINE (TN) PARAMETERS

*1. TN             _______                DEFAULT SID
*2. FEATURE        ________
#3. ASI GRP        ________               REMOTE ACCESS
 4. SERV CODE      _____              8. RMT BILL      N
 5. SID            __________         9. RMT SERV CODE _____
 6. IP DIAL BILL  N                  10. REC SERV CODE _____
 7. EXP DIAL BILL N
```

Figure 2 SAMPLE ASILPA FORM 5E11 AND EARLIERR SOFTWARE RELEASES

```
asilpa                          5ESS Switch
                         OFFICE DATA ADMINISTRATION
(5630-2)       ADVANCED SERVICE INTERFACE LINE (TN) PARAMETERS

*1. TN             __________              REMOTE ACCESS
*2. FEATURE        ________           8. RMT BILL      N
#3. ASI GRP        ________           9. RMT SERV CODE _____
 4. SERV CODE      _____             10. REC SERV CODE _____
 5. SID            __________
 6. IP DIAL BILL  N
 7. EXP DIAL BILL N
    DEFAULT SID
```

Figure 3 SAMPLE ASILPA FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 30C: 5630-3 RECORD
ADVANCED SERVICE INTERFACE LINE (MLHG/TERM) PARAMETER FORM - ASIMPA

1. GENERAL

The 5630-3 Record is available with 5E8 and later Software Releases, and provides a means to create an ASI (Advanced Service Interface) Proxy Line form which overrides the Default Parameters on the corresponding ASIFD form (5630-1 Record).

See Division 2, Section 4A93 for more information on ASI Proxy.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group number of the line.

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

Data Rules:

For 5E9(1) and later, MLHG/TERM(s) assigned an Advanced Service Interface FEATURE on the ASIMPA form must have the MLHG/TERM assigned on a corresponding MLHLNFA form with the same FEATURE defined on either the MLHLNFA, BFG or on their associated CLUSTR form(s).

2.3 * TERM

Description: Enter the Multi-Line Hunt Group member number of the line.

Required Field.
Valid Entries: 1 - 2000 or 3001 - 3999 (outdial terminals)

2.4 * FEATURE

Description: Enter the name of the ASI Proxy feature for which the parameters are to be assigned.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

FEATURE must be defined on the corresponding ASIFD form.

2.5 # ASI GRP

Description: Enter the name of the ASI Proxy group to be used by the ASI Proxy feature.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

ASI GRP must be defined on a corresponding ASIGP form (5630-4 Record).

2.6 SERV CODE

Description: Enter the service code defining the services allowed during implicit mode access to the IP (Intelligent Peripheral).
Valid Entries: up to 5 digits, consisting of 0 - 9, *, or #

Data Rules:

If ASI GRP and SERV CODE are both entered, they must be defined on a corresponding ASIGP form.

If an ASI Proxy feature is assigned to an MLHG/TERM and defined on an ASIFD form with IMP ACC equals "Y", then SERV CODE must be entered, if not entered on the ASIFD form, or a BFG form.

2.7 SID

Description: Enter the Subscriber ID used to identify the subscriber to the IP. If not specified, the SID is the TN of the line.
Valid Entries: up to 10 digits, consisting of 0 - 9, *, or #

2.8 IP DIAL BILL

Description: Does the subscriber want AMA (Automatic Message Accounting) billing records for an otherwise non-billable call dialed by the IP?

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

2.9 EXP DIAL BILL

Description: Does the subscriber want AMA records for an explicit connection to the IP?

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

Data Rules:

If EXP DIAL BILL equals "Y", EXP ACC on the corresponding ASIFD form must equal "Y".

REMOTE ACCESS

The RASI (Remote Access to ASI) feature is built upon the base ASI-Proxy (Advanced Service Interface) capability. The Remote Access to ASI will allow remote access to automated call handling, call extension and feature access.

Fields 2.10 - 2.12 refer to remote access capability.

2.10 REMOTE BILL

Description: Is billing for remote access to intelligent peripheral required?
Default: N
Valid Entries: Y, N

2.11 RMT SERV CODE

Description: Enter the Remote Service Code used to define the set of services allowed during remote access to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

Data Rules:

When RMT SERV CODE is entered, REC SERV CODE must be entered.

For 5E9(1) and later, MLHG/TERM(s) that have the field R set to "Y" for one or more FEATUREs on the MLHLNFA form, CLUSTR form or an associated BFG form and the FEATURE is defined on an ASIFD form, the RMT SERV CODE and REC SERV CODE must be entered on an ASIMPA form or on an ASIFD form (if an ASIMPA form does not exist.).

2.12 REC SERV CODE

Description: Enter the Remote Reconnect Service Code used to define the set of services allowed during a remote reconnect to the Intelligent Peripheral.
Valid Entries: Blank, or up to 5 characters of 0 - 9, *, or #

•

Data Rules:

When REC SERV CODE is entered, RMT SERV CODE must be entered.

ESS 5630-3(12/94)TG-5 ADVANCED SERVICE INTERFACE LINE DATE ___________
(MLHG/TERM) PARAMETER FORM
ASIMPA 5ESS SWITCH
1.61
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

ML HG	TE RM	FEATURE	ASI GRP	SER V C O D E	SID	I P D I	E X P D	REMOTE ACCESS		
								R M T	RMT S E R V C	REC SER V CO DE

					AL BILL	IAL BILL	BILL	ODE	

Figure 1 SAMPLE 5630-3 RECORD

```
asimpa                           5ESS Switch
(5630-3)                  OFFICE DATA ADMINISTRATION
            ADVANCED SERVICE INTERFACE LINE (MLHG/TERM) PARAMETERS

*1. MLHG          _____                 DEFAULT SID
*2. TERM          _____
*3. FEATURE       _________             REMOTE ACCESS
#4. ASI GRP       _________          9. REMOTE BILL   N
 5. SERV CODE     ______            10. RMT SERV CODE ______
 6. SID           ____________      11. REC SERV CODE ______
 7. IP DIAL BILL  N
 8. EXP DIAL BILL N
```

Figure 2 SAMPLE ASIMPA FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 30D: 5630-4 RECORD
ADVANCED SERVICE INTERFACE GROUP DEFINITION FORM - ASIGP

1. GENERAL

The 5630-4 Record is available with 5E8 and later Software Releases, and contains information needed to define the routing and signal conversion characteristics of an ASI (Advanced Service Interface) Proxy group.

See Division 2, Section 4A93 for more information on ASI Proxy.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.61.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * ASI GRP

Description: Enter the name of the ASI Proxy group to be used by the ASI Proxy feature.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

The ASI GRP and CODE defined on the ASIGP form must be entered on the ASILPA, ASIMPA, ASIFD and/or BFG forms as ASI GRP and RMT SERV CODE respectively.

The ASI GRP and CODE defined on the ASIGP form must be entered on the ASILPA, ASIMPA, ASIFD and/or BFG forms as ASI GRP and REC SERV CODE respectively.

2.3 * CODE

Description: Enter either the dialed access code digits to invoke explicit access to the IP (Intelligent Peripheral), or a service code defining the set of services allowed during implicit access to the IP.

Required Field.
Valid Entries: up to 5 digits, consisting of 0 - 9, *, or #

2.4 # RTI

Description: Enter the Route Index used to route to the IP.

Required Field.
Valid Entries:
- For 5E10 and earlier: 1 - 3617
- For 5E11 and later: 1 - 4095

Data Rules:

RTI must be defined on an RTIDX form (5303 Record) with ROUTE TYPE equal to "HUNT". Additionally, the RTI must route to a trunk group with ASI PROXY equal to "Y" on the associated TKGRP form (5202 Record).

2.5 SIG CONV

Description: Is signal conversion needed for access to "cut-through facilities?
Default: N
Valid Entries: Y, N

2.6 SIG CNVT TIME

Description: Enter the time to wait after each dialed digit before deciding that dialing is complete and no more signal conversion is needed. A value of 0 may be used to indicate infinite timing.
Default: 0
Valid Entries: 4 - 900 (seconds)

2.7 MEA

Description: Is Modified Extended Access required?

If "Y", this ASI group provides Modified Extended Access which will provide DP to TT conversion for applicable subscribers. This allows DP subscribers to make ``extended calls'' through the IP.

This ASI enhancement is part of SFID 93 and is in addition to the original DP to TT conversion that was supported solely between an IP and a subscriber. This enhancement, controlled by the MEA field, allows DP to TT conversion past the IP for any call extensions.

If "N", this ASI group does not support MEA.
Default: N
Valid Entries: Y, N

ESS 5630-4(12/94)TG-5 ADVANCED SERVICE INTERFACE DATE ___________
GROUP DEFINITION FORM
ASIGP 5ESS SWITCH
4.61
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

ASI GRP	CODE	RTI	SIG CONV	SIG CNVT TIME	MEA	REMARKS

Figure 1 SAMPLE 5630-4 RECORD

```
asigp                            5ESS Switch
(5630-4)                  OFFICE DATA ADMINISTRATION
                 ADVANCED SERVICE INTERFACE GROUP DEFINITION

*1. ASI GRP       ________
*2. CODE          _____
#3. RTI           ____
 4. SIG CONV      N
 5. SIG CNVT TIME 000
12. MEA           N
```

Figure 2 SAMPLE ASIGP FORM 5E8 AND LATER SOFTWARE RELEASES

SEC. 31: ASP ADVANCED SERVICES PLATFORM

SEC. 31A: 5632-1 RECORD
ADVANCED SERVICES PLATFORM FEATURE DEFINITION FORM - ASPFD

1. GENERAL

The ASPFD Record is available with 5E9(1) and later Software Releases, and defines various combinations of options available with the ASP (Advanced Services Platform) feature.

Lucent Technologies A-I-Net™ ASP provides true service-independent central office switch and interworking capabilities based on industry-standard AIN (Advanced Intelligent Network) requirements. ASP had been available since 5E6 as a secured feature, and enhancements were made in 5E8. For 5E9(1) and later, ASP is provisioned as a BRCS feature. In addition, several enhancements were made. These two changes created the need for a feature definition form.

See Division 2, Section 4A126 for more information on ASP.

1.1 Preconstructed Features

Each feature is given a feature name of from one to eight characters used to assign the constructed (defined) feature. Certain ASPFD features are pre-defined and automatically provided in the ODA database for initial offices, retrofit, or Large Terminal Growth. These are called preconstructed features. Preconstructed feature names all start with a slash (/), and the slash may not be used as the first character of any feature other than preconstructed features. The preconstructed ASPFD features are shown in Figure 1.

1.2 Recent Change View

The corresponding Recent Change View for this form is 12.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE

Description: Enter the ASP feature Name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

An ASP feature assigned to a TRUNK GROUP on a TKGRPFA form (5206 Record), TN on a LINEFA form (5112 Record), an MLHG on an MLHLNFA form (5113 Record), or a TGN/MEMB on a TRUNKFA form (5205 Record), must be defined on this form or as CLUSTER NAME on the CLUSTR form (5600 Record).

An ASP feature assigned to a CLUSTR form must be defined on this form.

Only one ASPFD form may exist for a feature name.

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA, TKGRPFA, or an associated CLUSTR form, IN START DIAL on the corresponding TRUNK form (5204 Record) must be other than "DIRC", "GRND", or "LOOP".

For 5E14 and earlier, an ASP feature assigned to a TN on the LINEFA form, an MLHG on the MLHLNFA form, or a TGN on the TRUNKFA form must have at least one TRIG NBR (OHI, OHD, or TA) entered or one ALLOWED field (FCD or CDP) set to "Y" on the ASPFD, ASPLPA (5632-2 Record), ASPMPA (5632-3 Record), ASPTPA or ASPDP (5632-5 Record) (for 5E9(1)) forms (5632-4 Record).

An ASP feature assigned to a TGN/MEMB on either the TRUNKFA form or an associated CLUSTR form when an ASPFD, ASPTPA, or ASPDP (for 5E9(1)) form exists with OHD TRIG NBR entered must have TGN defined on a TKGRP form (5202 Record) with TRKCLS equal to "PF", "PFITT", or "PFLASH", "EDSL" or "EDSLHM".

ASP features may not be assigned to BRCS feature groups on the BFG form (5625 Record).

An ASP feature assigned to a TGN on the TRUNKFA or associated CLUSTR form, or TRUNK GROUP on the TKGRPFA form, must have an associated TKGRP form where TRK DIR equal to "INC" or "2W", since ASP features can be assigned only to incoming or two-way trunks.

ASP terminating features, where CONTROL is "TERM", may not be assigned to trunks via the TRUNKFA (5206 Record) or TKGRPFA (5205 Record) form or in a CLUSTER assigned via the TRUNKFA or TKGRPFA form)

2.3 REMARKS

Description: Enter a descriptive remark.
Valid Entries: 1 - 32 characters

FEATURE OPTIONS

Field Section 2.4 refers to feature options.

2.4 # CONTROL

Description: Enter the ASP feature type control.

Required Field.

Valid CONTROL Entries

Entry	Definition
ORIG	Feature is applied to the originator.
TERM	Feature is applied to the terminator.
NESS	Software Release: 5E9(2) and later. Network Element Services Signaling.

Data Rules:

If CONTROL is "TERM", only TERMINATING TRIGGERS can be entered. If CONTROL is "ORIG", only ORIGINATING TRIGGERS can be entered. For 5E9(2) and later, if CONTROL is "NESS", only NESS TRIGGERS can be entered.

If CONTROL equals "TERM", OHI TRIG NBR, OHD TRIG NBR, and, for 5E9(2) and later, NESS TRIG NBR must not be entered. Also FCD ALLOWED and CDP ALLOWED cannot be "Y" on the associated ASPLPA or ASPMPA forms.

If CONTROL equals "ORIG", no terminating and, for 5E9(2) and later, no NESS triggers can be assigned on an ASPLPA or ASPMPA form, i.e., TA TRIG NBR and, for 5E9(2) and later, NESS TRIG NBR must not be entered.

If multiple ASP features are assigned to a TN on a LINEFA form, a TGN/MEMB on the TRUNKFA form, or an MLHG on the MLHLNFA form or a CLUSTER containing multiple ASP features assigned, then only one ASP feature may have CONTROL set to "ORIG" on the associated ASPFD form. There can be only one originating ASP feature.

If multiple ASP features are assigned to a TN on a LINEFA form or an MLHG on the MLHLNFA form or a CLUSTER containing multiple ASP features assigned, then only one ASP feature may have CONTROL set to "TERM" on the associated ASPFD form. There can be only one terminating ASP feature.

If an ASP feature is assigned to an MLHG/TERM on the MLHLNFA or a corresponding CLUSTR form, and defined on an ASPFD from with CONTROL set to "TERM", then the MLHG/TERM must be defined on an MLHLN from with the TN entered or on a DSLUSR form as CKT MLHG/TERM with CKT MLHG TN entered.

For an ASP feature assigned to a TN or MLHG/TERM on the LINEFA or MLHLNFA or a corresponding CLUSTR form, and defined on an ASPFD from with CONTROL set to "TERM", then

- if the TN or MLHG/TERM is defined on a LINE or MLHLN form with LCC/RAX entered where LCC/RAX is defined on an LCC form, the LCC form associated with this line or Multi-Line Hunt Group line must have a CLASS OF SERVICE of "2PTY", "4WINDIV", "ATND", "CHGCALL", "COIN", "HOTMOTL", "HOTPBX", "INDIV", "MODEM", "PBX", or "TWOPTY", and TERMINATING TREATMENT on the LCC form must be "AGING", "INDIV", "INWATS", "MLHG", or "PARTY".

For the ASP Interworking with National ISDN and Custom ISDN Attendant secured feature (See Division 2, Section 4A139):

- if SFID 139 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is defined on a LINE, MLHLN, or DSLUSR form, then the LCC form associated with this line or Multi-Line Hunt Group can additionally have a CLASS OF SERVICE of "ISATND" or "ISDN" , and if CLASS OF SERVICE is "ISDN", then DSL CLS must be "STD" on the corresponding DSL form.
- if the TN or MLHG is defined on a DSLUSR form as CKT TN or CKT MLHG, then the ASP Interworking with National ISDN and Custom ISDN Attendants secured feature must be purchased and SFID ACT 139 must be "Y" on the SFSYS form.

NESS:
For 5E9(2) and later, if a TN is on the LINEFA (or an MLHG/TERM) form with an ASP feature

- assigned on either the LINEFA (or MLHLNFA) form or corresponding CLUSTR form
- and defined on the ASPFD form with CONTROL set to "NESS",

then

- the ASP NESS (Network Element Services Signaling) secured feature must be purchased and the ACT field for SFID 185 must be "Y" on the SFSYS form.
- the TN (or MLHG/TERM) must be defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and LN TYPE must be "NONE" or not entered.

If CONTROL is set to "NESS", then on all associated ASPLPA and/or ASPLPA forms OHI TRIG NBR, OHD TRIG NBR, and TA TRIG NBR must not be entered; FCD ALLOWED and CDP ALLOWED must be "N".

If a TN (or MLHG/TERM) is defined on the LINEFA (or an MLHLNFA) form with multiple ASP features assigned on either the LINEFA (or MLHLNFA) form or corresponding CLUSTR form and the ASP features are defined on this form with CONTROL set to "NESS", then at most one ASP NESS feature can be assigned to a TN (or MLHG/TERM).

If a TN (or MLHG/TERM) is defined on the LINEFA (or an MLHLNFA) form with an ASP feature assigned on either the LINEFA (or MLHLNFA) form or corresponding CLUSTR form, the TN (or MLHG/TERM)is defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and this form has CONTROL set to "NESS", then the corresponding DSL form must have a DSL CLS of "STD".

DEFAULT PARAMETERS

Fields Section 2.5 - Section 2.31 refer to default parameters.

ORIGINATING TRIGGERS

Fields Section 2.5 - Section 2.18 refer to originating triggers. Originating triggers launch a query based on the calling number.

An ASP feature assigned to a TRUNK GROUP on the TKGRPFA form or associated CLUSTR form must have OHD TRIG NBR entered, or FCD ALLOWED or CDP ALLOWED equal to "Y" on an ASPFD, ASPTPA, or ASPDP (for 5E9(1)) form.

2.5 OHI TRIG NBR

Description: Enter the trigger number for Off-Hook Immediate triggers. The Off-Hook Immediate trigger is a subscribed trigger, that queries the SCP (Service Control Point) without referencing a dialing plan after the subscriber goes off-hook. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHI TRIG NBR is entered,

- OHD TRIG NBR must not be entered, and
- FCD ALLOWED and CDP ALLOWED must be "N".

For an ASP feature assigned to a TN on the LINEFA form or MLHG/TERM on the MLHLNFA form, if OHI TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) forms,

- the only other BCRS feature that may be assigned is a terminating ASP feature.
- SERHLN on the corresponding LINE or DSLUSR must not be entered.

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if OHI TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form (5306 Record) must have CLASS OF SERVICE of "INDIV".

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if the corresponding LCC form (5306 Record) has CLASS OF SERVICE of "ISDN", OHI TRIG NBR must not be entered on the associated ASPFD, ASPLPA, or ASPDP (for 5E9(1)) form. An OHI TRIG NBR is not allowed for lines with CLASS OF SERVICE of "ISDN".

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA or TKGRPFA forms or an associated CLUSTR form, if OHI TRIG NBR or TA TRIG NBR is entered on an ASPFD or ASPDP (for 5E9(1)) form, an ASPTPA form must exist for this TGN/MEMB(s)/FEATURE combination, since an OHI TRIG NBR or a TA TRIG NBR cannot be assigned to a trunk.

For 5E9(2) and earlier, OHI TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form (5324 Record) where APPLICATION is "ASP", and when AIN REL is "R0" on the NSTRIG form, SERV KEY must be "ANI".

For 5E10 and later, for every OHI TRIG NBR on the ASPFD form there must be a corresponding TRIG NBR entered on a NSTRIG form, APPLICATION must be "ASP" and SERVICE ALWD must not be "CSD". In addition, on the NSTRIG form when AIN REL equals "R0", SERV KEY must be "ANI".

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")

and

- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a CLUSTR form containing an ASP feature assigned

and

- the associated ASPFD or ASPLPA (or ASPMPA) form has OHI TRIG NBR entered,

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

2.6 OHI TRIG ACT

Description: Is the Off-Hook Immediate trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHI TRIG ACT is "Y", OHI TRIG NBR must be entered.

2.7 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The Off-Hook Delay trigger is a subscribed originating trigger that queries the SCP data base after all dialed/signaled digits have been collected and validated from the originating line/trunk. If the dialed/signaled digits have been defined as an escape code digit string, a

query is not launched; rather, normal call processing treatment is applied. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if OHD TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For an ASP feature assigned to a TN on the LINEFA form, TGN/MEMB on the TRUNKFA form, TRUNK GROUP on the TKGRPFA form, or MLHG on the MLHLNFA form, if OHD TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, ASPTPA ASPDP (for 5E9(1)) forms, then

- no other BRCS feature may be assigned to the line or Multi-Line Hunt Group except one terminating ASP feature with CONTROL set to "TERM", and no other features may be assigned to the trunk or trunk group.

For the ASP BRCS Off-Hook Delayed Interworking secured feature (See Division 2, Section 4A137):

- if SFID 137 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is either defined on a LINE, MLHLN form or on a DSLUSR form as CKT TN or CKT MLHG/TERM where DSL CLS on the corresponding DSL form is "STD", the only other BRCS features allowed to be assigned to the line or Multi-Line Hunt Group are those defined on the following forms:

  — ASPFD form with CONTROL set to "TERM"

  — CFWFD form with FWD COND set to "BUSY", "IDLE" or "BOTH"

  — CWTFD form with INVOKE set to "TERM"

  — MWFD form with CONTROL not set to "CODEALT".

NOTE: No other ASP originating features may be assigned to the line or Multi-Line Hunt Group.

- if BFGN is entered on the LINEFA or MLHLNFA form, the ASP (Advanced Service Platform) BRCS/OHD Interworking secured feature must be purchased and SFID ACT 137 must be "Y" on the SFSYS form.

- if SFID 137 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is either defined on a LINE, MLHLN form or on a DSLUSR form as CKT TN or CKT MLHG/TERM where DSL CLS on the corresponding DSL form is not set to "STD", no other BRCS features may be assigned except at most one ASP terminating feature with CONTROL set to "TERM".

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION is "ASP".

For an ASP feature assigned to a TGN/MEMB on the TKGRPFA or an associated CLUSTR form, if OHD TRIG NBR is entered on an ASPFD, ASPTPA, or ASPDP (for 5E9(1)) form, the TGN must be defined on the TKGRP form with TRKCLS of "PF", "PFITT", "PFLASH", "EDSL" or "EDSLHM".

When an ASP feature is assigned to a TN or MLHG/TERM on the LINEFA, MLHLNFA or a corresponding CLUSTR form, and an associated ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) form has OHD TRIG NBR entered, and the TN or MLHG/TERM is defined on a DSLUSR form as CKT TN or CKT MLHG/TERM, then

- if CKT LCC/RAX on the DSLUSR form is defined on an LCC form with CLASS OF SERVICE of "ISDN" and the OHD TRIG NBR is defined on an NSTRIG form with APPLICATION set to "ASP", AIN REL on the NSTRIG form must be "R0D1" if a corresponding DSL form has DSL CLS of "STD", AIN REL must be "R0" if DSL CLS not set to "STD".

The only other BRCS features allowed to be assigned to a line are those defined on the ACCTFD, ASPFD (CONTROL is "TERM"), CPNBNFD or RNDFD when:

- ASP OHD Interactions with Account Code and CPN/BN secured feature is active (see Division 2, Section 4A150) and
- the TN(s) (or MLHG/TERM(s)) appear on the LINEFA (or MLHLNFA) form with an ASP feature assigned or a CLUSTER containing an ASP feature assigned and
- OHD TRIG NBR is entered on the associated ASPFD or ASPLPA form and
- the TN (or MLHG/TERM) is either defined on a LINE (or MLHLN) form or on a DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL from is "STD".

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")

and

- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a CLUSTR form containing an ASP feature assigned

and

- the associated ASPFD or ASPLPA (or ASPMPA) form has OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is either defined on the LINE (or MLHLN) or DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL form is "STD",

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

No other BRCS features may be assigned except at most one ASP terminating feature where CONTROL on the ASPFD form is "TERM" when the following conditions hold:

- ASP BRCS/OHD Interworking secured feature has been purchased with SFID ACT 137 field set to "Y" on the SFSYS form,

and/or

- ASP OHD Interactions with Account Code and CPN/BN secured feature has been purchased with SFID ACT 150 field set to "Y" on the SFSYS form,

and/or

- ASP NESS secured feature has been purchased with SFID ACT 185 field set to "Y" on the SFSYS form,

and/or

- ASP BRCS/OHD Interworking Extensions secured feature has been purchased with SFID ACT 226 field set to "Y" on the SFSYS form

and

- TN (or MLHG/TERM) appears on the LINEFA (or MLHLNFA) form with an ASP feature assigned on the LINEFA (or MLHLNFA) or corresponding CLUSTR form

and

- the ASP feature is defined on the ASPFD, ASPLPA (or ASPMPA) with OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and DLS CLS on the corresponding DSL form is not "STD".

2.8 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.9 OHD DFLT ROUTE

Description: Is the Off-Hook Delay Default Route active? See Division 2, Section 4A516.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

If OHD DFLT ROUTE is "Y",
SFID 516 must be activated on the SFSYS form (5713 Record)

OHD TRIG NBR must be entered.

2.10 FCD ALLOWED

Description: Is the feature code dialing trigger allowed? Feature Code Dialing (formerly the ODP Prefix/Code trigger) is a subscribed trigger, querying the SCP when a subscriber goes off-hook and dials an ASP FCD access code. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if FCD ALLOWED or CDP ALLOWED is "Y" on the ASPFD, ASPMPA, or ASPDP (for 5E9(1)) forms, then

- the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For the ASP Interworking with National ISDN and Custom ISDN Attendant secured feature (See Division 2, Section 4A139):

- if SFID 139 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is defined on a LINE form or a DSLUSR form with LCC/RAX entered and the LCC/RAX is defined on an LCC form, then the LCC form associated with this line can additionally have a CLASS OF SERVICE of "ISATND" and if CLASS OF SERVICE is "ISDN", DSL CLS can be "STD" on the corresponding DSL form.

If TGN/MEMB(s) are assigned an ASP feature on the TKGRPFA form or an associated CLUSTR form and

FCD ALLOWED

or

CDP ALLOWED (for 5E14 and earlier)

is set to "Y" on the ASPFD or ASPTPA form, then the TGN must be defined on the TKGRP form with TRKCLS set to "PF", "PFITT" or "PFLASH".

2.11 FCD TRIG ACT

Description: Is the feature code dialing trigger active for the purpose of launching an SCP query?

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

Data Rules:

If FCD TRIG ACT is "Y", FCD ALLOWED must be "Y".

2.12 CDP ALLOWED

Description: Is the customized dialing plan trigger allowed? Customized Dialing Plan (formerly the IDP trigger) uses the IDP capabilities to access ASP. The query method depends on which digit collection method is provisioned.

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

Data Rules:

See Data Rules for FCD ALLOWED field.

For 5E15 and later, before TGN/MEMB(s) are assigned an ASP feature on either the TRUNKFA or TKGRPFA form or an associated CLUSTR form and an ASPFD or ASPTPA form exist with this feature where CDP ALLOWED is "Y" and the associated TGN defined on the TKGRP form with a TRKCLS value of "EDSL" or "EDSLHM", the following must be set to "Y" on the SFSYS form (Record 5713-1):

> ACT SFID 254 - Restrict Usage of ASP Trigger feature
>
> or
>
> ACT SFID 255 - ASP Originating Triggers feature
>
> and
>
> ACT SFID 557 - ASP CDP Trigger on PRI feature.

When TGN/MEMB(s) are assigned and ASP feature on either the TRUNKFA form or an associated CLUSTR form and an ASPFD or ASPTPA form exists with this feature where CDP ALLOWED is "Y", the TGN must be defined on the TKGRP form with a TRKCLS that corresponds to one of the following: "PF", "PFITT", "PFLASH", "EDSL", or "EDLSHM".

2.13 CDP TRIG ACT

Description: Is the customized dialing plan trigger active for the purpose of launching an SCP query?

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

Data Rules:

If CDP TRIG ACT is "Y", CDP ALLOWED must be "Y".

2.14 OBL TRIG NBR

Description: This field contains the originating busy line trigger number. The trigger number is a pointer to access the particular trigger. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-255

Data Rules:

If OBL TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX".

OBL TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

2.15 OBL TRIG ACT

Description: This field contains the originating busy line trigger status. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If OBL TRIG ACT is "Y", then OBL TRIG NBR must be entered.

2.16 ONA TRIG NBR

Description: This field contains the originating no answer trigger number. The trigger number is a pointer to access the particular trigger. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-255

Data Rules:

If ONA TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX".

OBL TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

2.17 ONA TRIG ACT

Description: This field contains the originating no answer trigger status. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Required Field.

Default: N
Valid Entries: Y, N

Data Rules:

If ONA TRIG ACT is "Y", then ONA TRIG NBR must be entered.

2.18 ONA TIMER

Description: This field contains the originating no answer trigger timer. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-120 seconds

Data Rules:

If ONA TIMER is entered, then ONA TRIG NBR must be entered.

TERMINATING TRIGGERS

For 5E15 and later, the following fields (Section 2.19 - Section 2.21) refer to Terminating Trunk Group Triggers. The ASP Terminating Trunk Group Trigger allows the 5ESS to provide an ASP trigger for calls terminating to designated Private Facility and Primary Rate Interface trunk groups.

See Div. 2, Sec. 4A546 for more information on the Terminating Trunk Group Trigger feature.

The following fields (Section 2.22 - Section 2.24) refer to terminating triggers. Terminating triggers launch a query based on the number called.

2.19 TGT TRIG NBR

Description: Enter the terminating trunk group trigger number.

Software Release: 5E15 and later
Valid Entries: 1 - 255

Data Rules:

When TGT TRIG ACT is Y, TGT TRIG NBR must be entered.

When TGT DFLT ROUTE is Y, TGT TRIG NBR must be entered.

When TGT TRIG NBR is entered, TAT TRIG NBR, TBL TRIG NBR, and TNA TRIG NBR must not be entered.

The secured feature Terminating Trunk Group Trigger must be purchased before TGT TRIG NBR can be set to a valid value, therefore the ACT field for SFID 546 on the SFSYS form must be "Y".

2.20 TGT TRIG ACT

Description: Is the terminating trunk group trigger active?

Required Field.

Software Release: 5E15 and later

Default: N
Valid Entries: Y, N

Data Rules:

When TGT TRIG ACT is "Y", TGT TRIG NBR must be entered.

2.21 TGT DFLT ROUTE

Description: Is the terminating trunk group trigger default routing active?

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

Data Rules:

If TGTDFLT ROUTE is "Y", TGT TRIG NBR must be entered.

2.22 TA TRIG NBR

Description: Enter the terminating attempt trigger number. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA or TKGRPFA forms or an associated CLUSTR form, if OHI TRIG NBR or TA TRIG NBR is entered on an ASPFD or ASPDP (for 5E9(1)) form, an ASPTPA form must exist for this TGN/MEMB(s)/FEATURE combination. since an OHI TRIG NBR or a TA TRIG NBR cannot be assigned to a trunk.

TA TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

No more than one ASP feature with a TA TRIG NBR entry on an ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) form may be assigned to a TN on a LINEFA, an MLHG/TERM on an MLHLNFA, or associated CLUSTR form.

2.23 TA TRIG ACT

Description: Is the terminating attempt trigger active for the purpose of launching an SCP query?

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

Data Rules:

If TA TRIG ACT is "Y", TA TRIG NBR must be entered.

2.24 TA DFLT ROUTE

Description: Is the terminating attempt trigger default routing active?

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

Data Rules:
If TA DFLT ROUTE is "Y", TA TRIG NBR must be entered.

The TA DFLT ROUTE field is used by the ASP Default Routing for Terminating Attempt Triggers Special Feature. It is a secured feature and must be purchased by the office before this field can be set to "Y" on the ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) If this field is set to "Y", a SFSYS form must exist with SFID 136 ACT field set to "Y".

2.25 TBL TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating busy line trigger.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 255

Data Rules:

When TBL TRIG NBR is entered, the SFSYS form (5713-1 Record) must have the ACT field for SFID 507 set to "Y".

If TBL TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

APPLICATION must be set to "ASP",

AIN REL must be set to "R0D1",

SERVICE must not be set to "CSD".

2.26 TBL TRIG ACT

Description: Is terminating busy line trigger active? This field is used to indicate whether the ASP terminating busy line trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TBL TRIG ACT is "Y", TBL TRIG NBR must be entered.

2.27 TNA TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating no answer trigger.

Software Release: 5E14 and later

Valid Entries: Blank, or 1 - 255

Data Rules:

When TNA TRIG NBR is entered, the SFSYS form (5713-1 Record) must have the ACT field for SFID 507 set to "Y".

If TNA TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

APPLICATION must be set to "ASP",

AIN REL must be set to "R0D1",

SERVICE must not be set to "CSD".

2.28 TNA TRIG ACT

Description: Is terminating no answer trigger active? This field is used to indicate whether the ASP terminating no answer trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TNA TRIG ACT is "Y", TNA TRIG NBR must be entered.

2.29 TNA TIMER

Description: This field is used to set up terminating no answer trigger timer.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 120 in seconds

Data Rules:

When TNA TIMER is entered, TNA TRIG NBR must be entered.

2.30 INTRA OFFICE FWD

Description: Enter the number of intra-office calls that can be forwarded.
Valid Entries: 1 - 99

2.31 INTER OFFICE FWD

Description: Enter the number of inter-office calls that can be forwarded.
Valid Entries: 1 - 99

NESS TRIGGERS

Fields Section 2.32 - Section 2.34 refer to NESS (Network Element Services Signaling) triggers. NESS triggers launch a query on an external database based on the calling number. These fields support the ASP NESS secured feature. For information on this feature, see Division 2, Section 4A185.

2.32 NESS TRIG NBR

Description: Enter the Network Element Services Number.

Software Release 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

Only one type of TRIG NBR may be entered: "ORIG", "TERM", or "NESS".

When NESS TRIG NBR is entered, it must be defined on an NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "ROD1".

2.33 NESS TRIG ACT

Description: Is the Network Element Services Signaling active?

Software Release 5E9(2) and later.
Required Field.
Default Value: N
Valid Entries: Y, N

Data Rules:

When NESS TRIG ACT is "Y", NESS TRIG NBR must be entered.

When the ASP NESS secured feature is assigned to a line, the SFID ACT field must be set to "Y" on the SFSYS form (5713-1 Record).

2.34 NESS SCRN GRP

Description: Enter the Network Element Services Signaling screening group.

Software Release 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

When NESS SCRN GRP is entered, it must be defined on an ASPGRP form (5634 Record)

ESS 5632-1(1/98)TG-5 ADVANCED SERVICES PLATFORM DATE ___________
FEATURE DEFINITION RECORD
ASPFD 5ESS SWITCH
8/93
BASE______CONT GR____ 5ESS UNIT ___________________ PAGE______

FEATURE	REMARKS	CO	OHI		OHD		FCD		CDP		OBL		ONA		ON	TA			IN	IN	NESS		
			TR	T	T	T	A	T	A	TR	T	T	T	T		T	T	D			T	T	S

		NTROL	IG NBR	RIG ACT	RIG NBR	RIG ACT	LLOWED	RIG ACT	LLOWED	IG ACT	RIG NBR	RIG ACT	RIG NBR	RIG ACT	A TIMER	RIG NBR	RIG ACT	FLT ROUTE	TRA OFF CE FWD	TER OFF CE FWD	RIG NBR	RIG ACT	CRNGRP
/AO*	WILD CARD	ORIG		N		N	N	N	N	N							N						
/ASPORIG	ASP ORIGINATING FEATURE	ORIG		N		N	N	N	N	N							N						
/ASPTERM	ASP TERMINATING FEATURE	TERM		N		N	N	N	N	N							N	N	99	1			
/ASPNESS	ASP NESS FEATURE	NESS		N		N	N	N	N	N							N	N				N	

Figure 1 PRECONSTRUCTED ASP FEATURES 5E10 AND LATER SOFTWARE RELEASES

```
SCREEN 1 OF 3                    5ESS Switch
aspfd                     OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

*2. FEATURE ________                3. REMARKS ________________________________

===========================  FEATURE OPTIONS  ==================================
#4. CONTROL ____
========================== DEFAULT PARAMETERS =================================
      ORIGINATING TRIGGERS                  ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT      TRIG TYPE  TRIG NBR  TRIG ACT
 5. OHI        ___         N        13. OBL       ___        N
 7. OHD        ___         N        15. ONA       ___        N
 TRIG TYPE  ALLOWED   TRIG ACT
 9. FCD        N           N        17. ONA TIMER ___
```

```
11. CDP        N          N
```

```
SCREEN 2 OF 3                     5ESS Switch
aspfd                      OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
18. TA         ___       N           N


21. INTRA OFFICE FWD __
22. INTER OFFICE FWD __
```

```
SCREEN 3 OF 3                     5ESS Switch
aspfd                      OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
23. NESS       ___       N         ___
```

Figure 2 SAMPLE ASPFD FORM 5E12 - 5E13 SOFTWARE RELEASES

```
SCREEN 1 OF 3                     5ESS Switch
aspfd                      OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

*2. FEATURE ________                3. REMARKS ________________________________

==========================  FEATURE OPTIONS  ==================================
#4. CONTROL ____
========================== DEFAULT PARAMETERS =================================
      ORIGINATING TRIGGERS                        ORIGINATING TRIGGERS
```

```
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE   TRIG TYPE  TRIG NBR  TRIG ACT
  5. OHI       ____       N                  14. OBL       ____       N
  7. OHD       ____       N         N        15. ONA       ____       N
 TRIG TYPE  ALLOWED   TRIG ACT
 10. FCD       N          N                  18. ONA TIMER ____
 12. CDP       N          N
```

```
SCREEN 2 OF 3                    5ESS Switch
aspfd                     OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
19. TAT        ____      N           N
22. TBL        ____      N
25. TNA        ____      N

28. TNA TIMER  ____

29. INTRA OFFICE FWD __
30. INTER OFFICE FWD __
```

```
SCREEN 3 OF 3                    5ESS Switch             _
aspfd                     OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
31. NESS       ____      N         ____
```

Figure 3 SAMPLE ASPFD FORM 5E14 SOFTWARE RELEASES

```
aspfd                            5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

*2. FEATURE ________                3. REMARKS ________________________________

===========================  FEATURE OPTIONS  ==================================
#4. CONTROL ____
=========================== DEFAULT PARAMETERS =================================
      ORIGINATING TRIGGERS                       ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT DFLT ROUTE   TRIG TYPE  TRIG NBR  TRIG ACT
 5. OHI        ___        N                 14. OBL       ___        N
 7. OHD        ___        N        N        16. ONA       ___        N
 TRIG TYPE  ALLOWED   TRIG ACT
 10. FCD       N          N                 18. ONA TIMER ___
 12. CDP       N          N
```

```
aspfd                            5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
19. TGT        ___       N           N
23. TAT        ___       N           N
26. TBL        ___       N
29. TNA        ___       N

32. TNA TIMER  ___
33. INTRA OFFICE FWD __
34. INTER OFFICE FWD __
```

```
aspfd                            5ESS Switch             _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5632-1)        ADVANCED SERVICES PLATFORM FEATURE DEFINITION

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
35. NESS       ___       N         ___
```

Figure 4 SAMPLE ASPFD FORM   5E15 AND SOFTWARE RELEASES

SEC. 31B: 5632-2 RECORD
ADVANCED SERVICES PLATFORM (TN) PARAMETERS FORM - ASPLPA

1. GENERAL

The 5632-2 Record is available with 5E9(1) and later Software Releases, and defines ASP Line Parameters. The Line Parameter Form is used when an ASPFD constructed feature is assigned to a non-Multi-Line Hunt line and the desired parameters are different from the default parameters on the ASPFD form (5632-1 Record).

See Division 2, Section 1AP for more information on ASP.

It is recommended that the default parameter for the name of the ASP feature group be defined on the ASPFD form for the specific (constructed) ASP feature name. Then when the ASP feature name is assigned to a line on the LINEFA form (5112 Record) the default parameter will apply to that line without submitting an ASPLPA form.

For 5E14 and earlier, at least one of OHI TRIG NBR, OHD TRIG NBR, or TA TRIG NBR must be entered, or one of FCD ALLOWED or CDP ALLOWED must equal "Y".

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the TN.

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:

TNs assigned an ASP feature on this form must have a corresponding LINEFA or CLUSTR form with the same feature name.

For 5E12 and later, TN/FEATURE combinations on different ASPLPA forms cannot be duplicated.

For 5E12 and later, if the first 3 digits of the 7-digit TNs on the ASPLPA 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 * FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

For 5E14 and earlier, an ASP feature assigned to a TN on the LINEFA form must have at least one TRIG NBR (OHI, OHD, or TA) entered or one ALLOWED field (FCD or CDP) set to "Y" on the ASPFD, ASPLPA, or ASPDP (for 5E9(1)) forms.

FEATURE must be defined on the corresponding ASPFD form.

ORIGINATING TRIGGERS

Fields Section 2.4 - Section 2.17 refer to originating triggers. Originating triggers launch a query based on the calling number.

If CONTROL on the ASPFD form equals "TERM", OHI TRIG NBR, OHD TRIG NBR, FCD ALLOWED, and CDP ALLOWED cannot be "Y".

2.4 OHI TRIG NBR

Description: Enter the Off-Hook Immediate trigger number. The Off-Hook Immediate trigger is a subscribed trigger, that queries the SCP without referencing a dialing plan after the subscriber goes off-hook.
Valid Entries: 1 - 255

Data Rules:

If OHI TRIG NBR is entered:

- OHD TRIG NBR must not be entered, and
- FCD ALLOWED and CDP ALLOWED must be "N".

For 5E9(2) and earlier, for every OHI TRIG NBR on this form there must be a corresponding TRIG NBR on the NSTRIG form (5324 Record), and APPLICATION must equal "ASP". If AIN REL is "R0" on the NSTRIG form, then SERV KEY must be "ANI".

For 5E10 and later, for every OHI TRIG NBR on the ASPLPA form there must be a corresponding TRIG NBR entered on a NSTRIG form, APPLICATION must be "ASP" and SERVICE ALWD must not be "CSD". In addition, on the NSTRIG form when AIN REL equals "R0", SERV KEY must be "ANI".

For an ASP feature assigned to a TN on the LINEFA form, if OHI TRIG NBR is entered on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)), the only other BCRS feature that may be assigned is a terminating ASP feature.

For an ASP feature assigned to a TN on the LINEFA form or an associated CLUSTR form (5600 Record), if OHI TRIG NBR is entered on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form (5306 Record) must have CLASS OF SERVICE of "INDIV".

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")

and

- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a CLUSTR form containing an ASP feature assigned

and

- the associated ASPFD or ASPLPA (or ASPMPA) form has OHI TRIG NBR entered,

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

2.5 OHI TRIG ACT

Description: Is the Off-Hook Immediate trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHI TRIG ACT is "Y", OHI TRIG NBR must be entered.

2.6 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP".

For an ASP feature assigned to a TN on the LINEFA form or an associated CLUSTR form, if OHD TRIG NBR is entered on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For an ASP feature assigned to a TN on the LINEFA form, if OHD TRIG NBR is entered on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) forms, the only other BCRS feature that may be assigned is at most one terminating ASP feature.

For 5E9(2) and later, no other BRCS features may be assigned except at most one ASP terminating feature where CONTROL on the ASPFD form is "TERM" when the following conditions hold:

- ASP BRCS/OHD Interworking secured feature has been purchased with SFID ACT 137 field set to "Y" on the SFSYS form,

and/or

- ASP OHD Interactions with Account Code and CPN/BN secured feature has been purchased with SFID ACT 150 field set to "Y" on the SFSYS form,

and/or

- ASP NESS secured feature has been purchased with SFID ACT 185 field set to "Y" on the SFSYS form,

and/or

- ASP BRCS/OHD Interworking Extensions secured feature has been purchased with SFID ACT 226 field set to "Y" on the SFSYS form

and

- TN (or MLHG/TERM) appears on the LINEFA (or MLHLNFA) form with an ASP feature assigned on the LINEFA (or MLHLNFA) or corresponding CLUSTR form

and

- the ASP feature is defined on the ASPFD, ASPLPA (or ASPMPA) with OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and DLS CLS on the corresponding DSL form is not "STD".

If the following conditions exists:

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")

and

- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a CLUSTR form containing an ASP feature assigned

and

- the associated ASPFD or ASPLPA (or ASPMPA) form has OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is either defined on the LINE (or MLHLN) or DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL form is "STD",

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

2.7 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.8 OHD DFLT ROUTE

Description: Is the Off-Hook Delay Default Route active for the purpose? See Division 2, Section 4A516.

Software Release: 5E14 and later.
Default: N
Valid Entries: Y, N

Data Rules:

If OHD DFLT ROUTE is "Y", OHD TRIG NBR must be entered.

For 5E14 and later, if OHD DFLT ROUTE is "Y", SFID 516 must be activated on the SFSYS form (5713 Record).

2.9 FCD ALLOWED

Description: Is the feature code dialing trigger allowed? Feature Code Dialing (formerly the ODP Prefix/Code trigger) is a subscribed trigger, querying the SCP when a subscriber goes off-hook and dials an ASP FCD access code. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to a TN on the LINEFA form or an associated CLUSTR form, if FCD ALLOWED is "Y" on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.10 FCD TRIG ACT

Description: Is the feature code dialing trigger active for the purpose of launching an SCP query?

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

Data Rules:

If FCD TRIG ACT is "Y", FCD ALLOWED must be "Y".

2.11 CDP ALLOWED

Description: Is the customized dialing plan trigger allowed? Customized Dialing Plan (formerly the IDP trigger) uses the IDP capabilities to access ASP. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to a TN on the LINEFA form or an associated CLUSTR form, if CDP ALLOWED is "Y" on the ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.12 CDP TRIG ACT

Description: Is the customized dialing plan trigger active for the purpose of launching an SCP query?

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

Data Rules:

If CDP TRIG ACT is "Y", CDP ALLOWED must be "Y".

2.13 OBL TRIG NBR

Description: Enter the originating busy line trigger number. This field indicates the unique location of the network service for the ASP originating busy line trigger. This field has been added to support the Advanced Service Platform Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later.
Valid Entries: Blank or 1 - 255

Data Rules:

If OBL TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX". Otherwise, the ASP BLNA feature is only allowed for lines with Class Of Service of "INDIV", "ISDN", "ATND" or "ISATND".

OBL TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "RODI".

2.14 OBL TRIG ACT

Description: Is the ASP originating busy line trigger active? This field has been added to support the Advanced Service Platform Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When OBL TRIG ACT is "Y", OBL TRIG NBR must be entered.

2.15 ONA TRIG NBR

Description: Enter the originating no answer trigger number. This field specifies the number used to locate the unique network service for the ASP originating no answer trigger. This field has been added to support the Advanced Service Platform Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later.
Valid Entries: Blank or 1 - 255

Data Rules:

If ONA TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX". Otherwise, the ASP BLNA feature is only allowed for lines with Class Of Service of "INDIV", "ISDN", "ATND" or "ISATND".

ONA TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "RODI".

2.16 ONA TRIG ACT

Description: Is the ASP originating no answer trigger active or inactive?

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When ONA TRIG ACT is "Y", ONA TRIG NBR must be entered.

2.17 ONA TIMER

Description: Enter the no answer timeout value in seconds for ASP busy line no answer. The ONA TIMER field is used to set up originating no answer trigger timer.

Software Release: 5E12 and later.
Valid Entries: 1 - 120 in seconds

Data Rules:

When ONA TIMER is entered, ONA TRIG NBR must be entered.

TERMINATING TRIGGERS

Fields Section 2.18 - Section 2.20 refer to terminating triggers. Terminating triggers launch a query based on the number called.

If CONTROL on the ASPFD form equals "ORIG", no terminating triggers can be assigned.

2.18 TA TRIG NBR

Description: Enter the terminating attempt trigger number. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If TA TRIG NBR is entered:

- OHI TRIG NBR and OHD TRIG NBR must not be entered,
- OBL TRIG NBR, ONA TRIG NBR and NESS TRIG NBR, and
- FCD ALLOWED and CDP ALLOWED must be "N".

TA TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

No more than one ASP feature with a TA TRIG NBR entry on an ASPFD, or ASPLPA, or ASPDP (for 5E9(1)) form may be assigned to a TN on a LINEFA or associated CLUSTR form.

2.19 TA TRIG ACT

Description: Is the terminating attempt trigger active for the purpose of launching an SCP query?

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

Data Rules:

If TA TRIG ACT is "Y", TA TRIG NBR must be entered.

2.20 TA DFLT ROUTE

Description: Is the terminating attempt trigger default routing active?

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

Data Rules:

If TA DFLT ROUTE is "Y", TA TRIG NBR must be entered.

The TA DFLT ROUTE field is used by the ASP Default Routing for Terminating Attempt Triggers Special Feature. It is a secured feature and must be purchased by the office before this field can be set to "Y". If this field is set to "Y", a SFSYS form must exist with SFID 136 ACT field set to "Y".

2.21 TBL TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating busy line trigger.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 255

Data Rules:

When TBL TRIG NBR is entered:

> OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, and NESS TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".
>
> the SFSYS form (5713-1 Record) must have the ACT field for SFID 507 set to "Y".

If TBL TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

> APPLICATION must be set to "ASP",
>
> AIN REL must be set to "R0D1",
>
> SERVICE must not be set to "CSD".

2.22 TBL TRIG ACT

Description: Is terminating busy line trigger active? This field is used to indicate whether the ASP terminating busy line trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TBL TRIG ACT is "Y", TBL TRIG NBR must be entered.

2.23 TNA TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating no answer trigger.

Software Release: 5E14 and later

Valid Entries: Blank, or 1 - 255

Data Rules:

When TNA TRIG NBR is entered:

> OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, and NESS TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".
>
> the ACT field for SFID 507 on the SFSYS form (5713-1 Record) must be set to "Y".

If TNA TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

> APPLICATION must be set to "ASP",
>
> AIN REL must be set to "R0D1",
>
> SERVICE must not be set to "CSD".

2.24 TNA TRIG ACT

Description: Is terminating no answer trigger active? This field is used to indicate whether the ASP terminating no answer trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TNA TRIG ACT is "Y", TNA TRIG NBR must be entered.

2.25 TNA TIMER

Description: This field is used to set up terminating no answer trigger timer.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 120 in seconds

Data Rules:

When TNA TIMER is entered, TNA TRIG NBR must be entered.

2.26 INTRA OFFICE FWD

Description: Enter the number of intra-office calls that can be forwarded.
Valid Entries: 1 - 99

2.27 INTER OFFICE FWD

Description: Enter the number of inter-office calls that can be forwarded.
Valid Entries: 1 - 99

NESS TRIGGERS

Fields Section 2.28 - Section 2.30 refer to NESS (Network Element Services Signaling) triggers. NESS triggers launch a query on an external database based on the calling number. These fields support the NESS ASP secured feature. For information on this feature, see Division 2, Section 4A185.

2.28 NESS TRIG NBR

Description: Enter the Network Element Services Number.

Software Release: 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

When NESS TRIG NBR is entered, NESS SCRN GRP must be entered.

Only one type of TRIG NBR may be entered: ORIGINATING, TERMINATING, or NESS.

When TN on a LINEFA form with an ASP feature assigned on the LINEFA or corresponding CLUSTR form has the NESS TRIG NBR entered on the associated ASPFD or ASPLPA form, then the NESS TRIG NBR must be defined on an NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "ROD1".

For 5E14 and later, when NESS TRIG NBR is entered, OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, TAT TRIG NBR, TNA TRIG NBR, and TBL TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".

2.29 NESS TRIG ACT

Description: Is the Network Element Services Signaling active?

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When NESS TRIG ACT is "Y", NESS TRIG NBR must be entered.

When the ASP NESS secured feature is assigned to a line, the SFID ACT 185 field must be set to "Y" on the SFSYS form (5713-1 Record).

2.30 NESS SCRN GRP

Description: Enter the Network Element Services Signaling screening group.

Software Release: 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

Data Rules:

When NESS SCRN GRP is entered, NESS TRIG NBR must be entered.

When NESS SCRN GRP is entered, it must be defined on an ASPGRP form (5634 Record).

```
asplpa                           5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

*1. TN      __________
*2. FEATURE ________

                        ORIGINATING TRIGGERS

 TRIG TYPE  TRIG NBR  TRIG ACT        TRIG TYPE  TRIG NBR  TRIG ACT
 3. OHI        ___       N           11. OBL        ___       N
 5. OHD        ___       N           13. ONA        ___       N

 TRIG TYPE  ALLOWED   TRIG ACT       15. ONA TIMER ___
 7. FCD        N         N
 9. CDP        N         N
```

```
asplpa                           5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

              TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
16. TA        ___        N          N


19. INTRA OFFICE FWD __
20. INTER OFFICE FWD __
```

```
asplpa                           5ESS Switch
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
21. NESS       ___       N         ___
```

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

```
asplpa                           5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

*1. TN      __________
*2. FEATURE ________

                        ORIGINATING TRIGGERS

 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE  TRIG TYPE  TRIG NBR  TRIG ACT
 3. OHI        ___       N                  12. OBL       ___       N
 5. OHD        ___       N          N       13. ONA       ___       N

 TRIG TYPE  ALLOWED   TRIG ACT              16. ONA TIMER ___
 8. FCD        N         N
 10. CDP       N         N
```

```
asplpa                           5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

              TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
17. TAT       ___        N          N
20. TBL       ___        N
23. TNA       ___        N

26. TNA TIMER ___

27. INTRA OFFICE FWD __
28. INTER OFFICE FWD __
```

```
asplpa                           5ESS Switch             _
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5632-2)          ADVANCED SERVICES PLATFORM (TN) PARAMETERS

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
29. NESS       ___       N         ___
```

Figure 2 SAMPLE ASPLPA FORM 5E14 AND LATER SOFTWARE RELEASES

SEC. 31C: 5632-3 RECORD
ADVANCED SERVICES PLATFROM (MLHG/TERM) PARAMETERS FORM - ASPMPA

1. GENERAL

The ASPMPA Record is available with 5E9(1) and later Software Releases, and defines ASP Multi-Line Hunt line parameters. The Line (MLHG/Term) Parameter Form is used when an ASP constructed feature is assigned to a Multi-Line Hunt line, and the desired parameters are different from the default parameters on the ASPFD form (5632-1 Record).

See Division 2, Section 1AP for more information on ASP.

It is recommended that the default parameter for the name of the ASP feature Group be defined on the ASPFD form for the specific (constructed) ASP feature name. Then when the ASP feature name is assigned to a Multi-Line Hunt line on the MLHLNFA form (5113 Record), the default parameter will apply without submitting an ASPMPA form.

For 5E14 and earlier, at least one of OHI TRIG NBR, OHD TRIG NBR, or TA TRIG NBR must be entered, or one of FCD ALLOWED or CDP ALLOWED to "Y".

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * MLHG

Description: Enter the Multi-Line Hunt Group Number.

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

Data Rules:

MLHG/TERM(s) assigned an ASP feature on this form must have a corresponding MLHG/TERM on an MLHLNFA or an associated CLUSTR form with the same feature name.

2.3 * TERM

Description: Enter the Member Number of the MLHG.

Required Field.
Valid Entries: 1 - 2015
    3001-3999 (outdial terminals)

Data Rules:

MLHG/TERM(s) assigned an ASP feature on this form must have a corresponding MLHG/TERM on an MLHLNFA or an associated CLUSTR form with the same feature name.

2.4 * FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

FEATURE must equal FEATURE on the corresponding ASPFD form.

For 5E14 and earlier, an ASP feature assigned to an MLHG on the MLHLNFA form must have at least one TRIG NBR (OHI, OHD, or TA) entered or one ALLOWED field (FCD or CDP) set to "Y" on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) forms.

ORIGINATING TRIGGERS

Fields Section 2.5 - Section 2.15 refer to originating triggers. Originating triggers launch a query based on the calling number.

If CONTROL on the ASPFD form equals "TERM", OHI TRIG NBR, OHD TRIG NBR, FCD ALLOWED, and CDP ALLOWED cannot be "Y".

2.5 OHI TRIG NBR

Description: Enter the Off-Hook Immediate trigger number. The Off-Hook Immediate trigger is a subscribed trigger, that queries the SCP without referencing a dialing plan after the subscriber goes off-hook. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHI TRIG NBR is entered:

- OHD TRIG NBR must not be entered, and
- FCD ALLOWED and CDP ALLOWED must be "N".

For 5E9(2) and earlier, for every OHI TRIG NBR there must be a corresponding TRIG NBR entered on the NSTRIG form (5324 Record), and APPLICATION equal "ASP". If AIN REL is "R0" on the NSTRIG form, then SERV KEY must be "ANI".

For 5E10 and later, for every OHI TRIG NBR on the ASPMPA form there must be a corresponding TRIG NBR entered on a NSTRIG form, APPLICATION must be "ASP" and SERVICE ALWD must not be "CSD". In addition, on the NSTRIG form when AIN REL equals "R0", SERV KEY must be "ANI".

For an ASP feature assigned to an MLHG/TERM on the MLHLNFA form, if OHI TRIG NBR is entered on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) forms, the only other BCRS feature that may be assigned is a terminating ASP feature.

For an ASP feature assigned to an MLHG/TERM on the MLHLNFA form or an associated CLUSTR form (5600 Record), if OHI TRIG NBR is entered on the ASPFD, or ASPMPA, or ASPDP (for 5e9(1)) forms, the corresponding LCC form (5306 Record) must have CLASS OF SERVICE of "INDIV".

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")
- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a corresponding CLUSTR form with an ASP feature assigned
- the associated ASPFD or ASPLPA (or ASPMPA) form has OHI TRIG NBR entered,

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

2.6 OHI TRIG ACT

Description: Is the Off-Hook Immediate trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHI TRIG ACT is "Y", OHI TRIG NBR must be entered.

2.7 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The Off-Hook Delay trigger is a subscribed originating trigger that queries the SCP data base after all dialed/signaled digits have been collected and validated from the originating line/trunk. If the dialed/signaled digits have been defined as an escape code digit string, a query is not launched; rather, normal call processing treatment is applied. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP".

For an ASP feature assigned to an MLHG/TERM on the MLHLNFA form or an associated CLUSTR form, if OHD TRIG NBR is entered on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For an ASP feature assigned to an MLHG on the MLHLNFA form, if OHD TRIG NBR is entered on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) forms, the only other BCRS feature that may be assigned is at most one terminating ASP feature.

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")
- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a corresponding CLUSTR form with an ASP feature assigned
- the associated ASPFD or ASPLPA (or ASPMPA) form has OHD TRIG NBR entered
- the TN (or MLHG/TERM) is either defined on the LINE (or MLHLN) or DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL form is "STD",

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

No other BRCS features may be assigned except at most one ASP terminating feature where CONTROL on the ASPFD form is "TERM" when the following conditions hold:

- one of the following secured features is active:
  - — ASP BRCS/OHD Interworking secured feature has been purchased with SFID ACT 137 field set to "Y" on the SFSYS form,
  - — ASP OHD Interactions with Account Code and CPN/BN secured feature has been purchased with SFID ACT 150 field set to "Y" on the SFSYS form,
  - — ASP NESS secured feature has been purchased with SFID ACT 185 field set to "Y" on the SFSYS form,
  - — ASP BRCS/OHD Interworking Extensions secured feature has been purchased with SFID ACT 226 field set to "Y" on the SFSYS form
- TN (or MLHG/TERM) appears on the LINEFA (or MLHLNFA) form with an ASP feature assigned on the LINEFA (or MLHLNFA) or corresponding CLUSTR form
- the ASP feature is defined on the ASPFD, ASPLPA (or ASPMPA) with OHD TRIG NBR entered
- the TN (or MLHG/TERM) is defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and DLS CLS on the corresponding DSL form is nor "STD".

2.8 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.9 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The Off-Hook Delay trigger is a subscribed originating trigger that queries the SCP data base after all dialed/signaled digits have been collected and validated from the originating line/trunk. If the dialed/signaled digits have been defined as an escape code digit string, a query is not launched; rather, normal call processing treatment is applied. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if OHD TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For an ASP feature assigned to a TN on the LINEFA form, TGN/MEMB on the TRUNKFA form, TRUNK GROUP on the TKGRPFA form, or MLHG on the MLHLNFA form, if OHD TRIG NBR is entered on the ASPFD, ASPLPA, ASPMPA, ASPTPA ASPDP (for 5E9(1)) forms, then

- no other BRCS feature may be assigned to the line or Multi-Line Hunt Group except one terminating ASP feature with CONTROL set to "TERM", and no other features may be assigned to the trunk or trunk group.

For the ASP BRCS Off-Hook Delayed Interworking secured feature (See Division 2, Section 4A137):

- if SFID 137 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is either defined on a LINE, MLHLN form or on a DSLUSR form as CKT TN or CKT MLHG/TERM where DSL CLS on the corresponding DSL form is "STD", the only other BRCS features allowed to be assigned to the line or Multi-Line Hunt Group are those defined on the following forms:
    - ASPFD form with CONTROL set to "TERM"
    - CFWFD form with FWD COND set to "BUSY", "IDLE" or "BOTH"
    - CWTFD form with INVOKE set to "TERM"
    - MWFD form with CONTROL not set to "CODEALT".

NOTE: No other ASP originating features may be assigned to the line or Multi-Line Hunt Group.

- if BFGN is entered on the LINEFA or MLHLNFA form, the ASP (Advanced Service Platform) BRCS/OHD Interworking secured feature must be purchased and SFID ACT 137 must be "Y" on the SFSYS form.
- if SFID 137 ACT is "Y" on the SFSYS form and the TN or MLHG/TERM is either defined on a LINE, MLHLN form or on a DSLUSR form as CKT TN or CKT MLHG/TERM where DSL CLS on the corresponding DSL form is not set to "STD", no other BRCS features may be assigned except at most one ASP terminating feature with CONTROL set to "TERM".

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION is "ASP".

For an ASP feature assigned to a TGN/MEMB on the TKGRPFA or an associated CLUSTR form, if OHD TRIG NBR is entered on an ASPFD, ASPTPA, or ASPDP (for 5E9(1)) form, the TGN must be defined on the TKGRP form with TRKCLS of "PF", "PFITT", "PFLASH", "EDSL" or "EDSLHM".

When an ASP feature is assigned to a TN or MLHG/TERM on the LINEFA, MLHLNFA or a corresponding CLUSTR form, and an associated ASPFD, ASPLPA, ASPMPA, or ASPDP (for 5E9(1)) form has OHD TRIG NBR entered, and the TN or MLHG/TERM is defined on a DSLUSR form as CKT TN or CKT MLHG/TERM, then

- if CKT LCC/RAX on the DSLUSR form is defined on an LCC form with CLASS OF SERVICE of "ISDN" and the OHD TRIG NBR is defined on an NSTRIG form with APPLICATION set to "ASP", AIN REL on the NSTRIG form must be "R0D1" if a corresponding DSL form has DSL CLS of "STD", AIN REL must be "R0" if DSL CLS not set to "STD".

The only other BRCS features allowed to be assigned to a line are those defined on the ACCTFD, ASPFD (CONTROL is "TERM"), CPNBNFD or RNDFD when:

- ASP OHD Interactions with Account Code and CPN/BN secured feature is active (see Division 2, Section 4A150) and
- the TN(s) (or MLHG/TERM(s)) appear on the LINEFA (or MLHLNFA) form with an ASP feature assigned or a CLUSTER containing an ASP feature assigned and
- OHD TRIG NBR is entered on the associated ASPFD or ASPLPA form and
- the TN (or MLHG/TERM) is either defined on a LINE (or MLHLN) form or on a DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL from is "STD".

For 5E9(2) and later, if

- the ASP NESS secured feature has been purchased (SFID ACT 185 on the SFSYS form is set to "Y")

and

- a TN (or MLHG/TERM) on the LINEFA (or MLHLNFA) form with a CLUSTR form containing an ASP feature assigned

and

- the associated ASPFD or ASPLPA (or ASPMPA) form has OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is either defined on the LINE (or MLHLN) or DSLUSR form as CKT TN (or CKT MLHG/TERM) where DSL CLS on the corresponding DSL form is "STD",

then the only BRCS features allowed to be assigned to the line (or MLHG/TERM) are those defined on the ASPFD form with CONTROL set to "TERM" or "NESS".

No other BRCS features may be assigned except at most one ASP terminating feature where CONTROL on the ASPFD form is "TERM" when the following conditions hold:

- ASP BRCS/OHD Interworking secured feature has been purchased with SFID ACT 137 field set to "Y" on the SFSYS form,

and/or

- ASP OHD Interactions with Account Code and CPN/BN secured feature has been purchased with SFID ACT 150 field set to "Y" on the SFSYS form,

and/or

- ASP NESS secured feature has been purchased with SFID ACT 185 field set to "Y" on the SFSYS form,

and/or

- ASP BRCS/OHD Interworking Extensions secured feature has been purchased with SFID ACT 226 field set to "Y" on the SFSYS form

and

- TN (or MLHG/TERM) appears on the LINEFA (or MLHLNFA) form with an ASP feature assigned on the LINEFA (or MLHLNFA) or corresponding CLUSTR form

and

- the ASP feature is defined on the ASPFD, ASPLPA (or ASPMPA) with OHD TRIG NBR entered

and

- the TN (or MLHG/TERM) is defined on a DSLUSR form as CKT TN (or CKT MLHG/TERM) and DLS CLS on the corresponding DSL form is not "STD".

2.10 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.11 OHD DFLT ROUTE

Description: Is the Off-Hook Delay Default Route active? See Division 2, Section 4A516.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

If OHD DFLT ROUTE is "Y", OHD TRIG NBR must be entered.

For 5E14 and later, if OHD DFLT ROUTE is "Y", SFID 516 must be activated on the SFSYS form (5713 Record).

2.12 FCD ALLOWED

Description: Is the feature code dialing trigger allowed? Feature Code Dialing (formerly the ODP Prefix/Code trigger) is a subscribed trigger, querying the SCP when a subscriber goes off-hook and dials an ASP FCD access code. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to an MLHG/TERM on the MLHLNFA form or an associated CLUSTR form, if FCD ALLOWED is "Y" on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.13 FCD TRIG ACT

Description: Is the feature code dialing trigger active for the purpose of launching an SCP query?

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

Data Rules:

If FCD TRIG ACT is "Y", FCD ALLOWED must be "Y".

2.14 CDP ALLOWED

Description: Is the customized dialing plan trigger allowed? Customized Dialing Plan (formerly the IDP trigger) uses the IDP capabilities to access ASP. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to an MLHG/TERM on the MLHLNFA form or an associated CLUSTR form, if CDP ALLOWED is "Y" on the ASPFD, or ASPMPA, or ASPDP (for 5E9(1) forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.15 CDP TRIG ACT

Description: Is the customized dialing plan trigger active for the purpose of launching an SCP query?

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

Data Rules:

If CDP TRIG ACT is "Y", CDP ALLOWED must be "Y".

2.16 OBL TRIG NBR

Description: This field contains the originating busy line trigger number. The trigger number is a pointer to access the particular trigger. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-255

Data Rules:

If OBL TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX".

OBL TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "RODI".

2.17 OBL TRIG ACT

Description: This field contains the originating busy line trigger status. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If OBL TRIG ACT is "Y", then OBL TRIG NBR must be entered.

2.18 ONA TRIG NBR

Description: This field contains the originating no answer trigger number. The trigger number is a pointer to access the particular trigger. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-255

Data Rules:

If ONA TRIG NBR is entered, the LCC form associated with this line must have a Class Of Service of "ATND", "CHGCALL", "COIN", "HOTMOTL", "INDIV", "ISATND", "MODEM", "PBX", "TWOPTY", "2PTY", "4WINDIV", "ISDN" or "HOTPBX".

OBL TRIG NBR must equal TRIG NBR on a corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "RODI".

2.19 ONA TRIG ACT

Description: This field contains the originating no answer trigger status. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

If ONA TRIG ACT is "Y", then ONA TRIG NBR must be entered.

2.20 ONA TIMER

Description: This field contains the originating no answer trigger timer. It was added to support the ASP Provisioning of Busy/No Answer Triggers feature.

Software Release: 5E12 and later
Valid Entries: Blank or 1-120 seconds

Data Rules:

If ONA TIMER is entered, then ONA TRIG NBR must be entered.

TERMINATING TRIGGERS

Fields Section 2.21 - Section 2.23 refer to terminating triggers. Terminating triggers launch a query based on the number called.

If CONTROL on the ASPFD form equals "ORIG", no terminating triggers can be assigned.

2.21 TA TRIG NBR

Description: Enter the terminating attempt trigger number. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If TA TRIG NBR is entered:

- OHI TRIG NBR and OHD TRIG NBR must not be entered, and

- FCD ALLOWED and CDP ALLOWED must be "N".

TA TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

No more than one ASP feature with a TA TRIG NBR entry on an ASPFD, or ASPMPA, or ASPDP (for 5E9(1)) form may be assigned to an MLHG/TERM on an MLHLNFA or associated CLUSTR form.

2.22 TA TRIG ACT

Description: Is the terminating attempt trigger active for the purpose of launching an SCP query?

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

Data Rules:

If TA TRIG ACT is "Y", TA TRIG NBR must be entered.

2.23 TA DFLT ROUTE

Description: Is the terminating attempt trigger default routing active?

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

Data Rules:

If TA DFLT ROUTE is "Y", TA TRIG NBR must be entered.

The TA DFLT ROUTE field is used by the ASP Default Routing for Terminating Attempt Triggers Special Feature. It is a secured feature and must be purchased by the office before this field can be set to "Y". If this field is set to "Y", a SFSYS form must exist with SFID 136 ACT field set to "Y".

2.24 TBL TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating busy line trigger.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 255

Data Rules:

When TBL TRIG NBR is entered:

> OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, and NESS TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".
>
> the SFSYS form (5713-1 Record) must have the ACT field for SFID 507 set to "Y".

If TBL TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

APPLICATION must be set to "ASP",

AIN REL must be set to "R0D1",

SERVICE must not be set to "CSD".

2.25 TBL TRIG ACT

Description: Is terminating busy line trigger active? This field is used to indicate whether the ASP terminating busy line trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TBL TRIG ACT is "Y", TBL TRIG NBR must be entered.

2.26 TNA TRIG NBR

Description: This field is used to locate the unique network service for the ASP terminating no answer trigger.

Software Release: 5E14 and later
Valid Entries: Blank, or 1 - 255

Data Rules:

When TNA TRIG NBR is entered:

OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, and NESS TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".

the SFSYS form (5713-1 Record) must have the ACT field for SFID 507 set to "Y".

If TNA TRIG NBR matches TRIG NBR on the NSTRIG form (5324 Record), then the fields listed must be defined on the NSTRIG form as follows:

APPLICATION must be set to "ASP",

AIN REL must be set to "R0D1",

SERVICE must not be set to "CSD".

2.27 TNA TRIG ACT

Description: Is terminating no answer trigger active? This field is used to indicate whether the ASP terminating no answer trigger is active or inactive.

Required Field.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

When TNA TRIG ACT is "Y", TNA TRIG NBR must be entered.

2.28 TNA TIMER

Description: This field is used to set up terminating no answer trigger timer.

Software Release: 5E14 and later.
Valid Entries: Blank, or 1 - 120 in seconds

Data Rules:

When TNA TIMER is entered, TNA TRIG NBR must be entered.

2.29 INTRA OFFICE FWD

Description: Enter the number of intra-office calls that can be forwarded.
Valid Entries: 1 - 99

2.30 INTER OFFICE FWD

Description: Enter the number of inter-office calls that can be forwarded.
Valid Entries: 1 - 99

NESS TRIGGERS

Fields Section 2.31 - Section 2.33 refer to NESS (Network Element Services Signaling) triggers. NESS triggers launch a query on an external database based on the calling number. These fields support the ASP NESS secured feature. For information on this feature, see Division 2, Section 4A185.

2.31 NESS TRIG NBR

Description: Enter the Network Element Services Number.

Software Release: 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

When NESS TRIG NBR is entered, NESS SCRN GRP must be entered.

Only one type of TRIG NBR may be entered: ORIGINATING, TERMINATING, or NESS.

When an MLHG/TERM on a MLHLNFA form with an ASP feature assigned on the MLHLNFA or corresponding CLUSTR form has the NESS TRIG NBR entered on the associated ASPFD or ASPMPA form, then the NESS TRIG NBR must be defined on an NSTRIG form with APPLICATION set to "ASP" and AIN REL set to "ROD1".

For 5E14 and later, when NESS TRIG NBR is entered, OHI TRIG NBR, OHD TRIG NBR, OBL TRIG NBR, ONA TRIG NBR, TAT TRIG NBR, TNA TRIG NBR, and TBL TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".

2.32 NESS TRIG ACT

Description: Is the Network Element Services Signaling active?

Software Release: 5E9(2) and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When NESS TRIG ACT is "Y", NESS TRIG NBR must be entered.

When the ASP NESS secured feature is assigned to a line, the SFID ACT 185 field must be set to "Y" on the SFSYS form (5713-1 Record).

2.33 NESS SCRN GRP

Description: Enter the Network Element Services Signaling screening group.

Software Release: 5E9(2) and later.
Valid Entries: 1 - 255

Data Rules:

When NESS SCRN GRP is entered, NESS TRIG NBR must be entered.

When NESS SCRN GRP is entered, it must be defined on an ASPGRP form (5634 Record)

```
SCREEN 1 OF 3                    5ESS Switch
aspmpa                    OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

*1. MLHG    ____
*2. TERM    ____
*3. FEATURE ________

                        ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT        TRIG TYPE  TRIG NBR  TRIG ACT
 4. OHI        ____      N           12. OBL        ____      N
 6. OHD        ____      N           14. ONA        ____      N

 TRIG TYPE  ALLOWED   TRIG ACT       16. ONA TIMER ____
 8. FCD        N         N
10. CDP        N         N
```

```
SCREEN 2 OF 3                    5ESS Switch
aspmpa                    OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT   DFLT ROUTE
17. TA        ___        N           N


20. INTRA OFFICE FWD __
21. INTER OFFICE FWD __
```

```
SCREEN 3 OF 3                    5ESS Switch             _
aspmpa                    OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
22. NESS       ___       N         ___
```

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

```
SCREEN 1 OF 3                    5ESS Switch
aspmpa                    OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

*1. MLHG    ____
*2. TERM    ____
*3. FEATURE ________

                        ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT    DFLT ROUTE    TRIG TYPE  TRIG NBR  TRIG ACT
 4. OHI        ___       N                      13. OBL       ___       N
 6. OHD        ___       N            N         15. ONA       ___       N
```

```
 TRIG TYPE  ALLOWED   TRIG ACT                  17. ONA TIMER ___
  9. FCD        N         N
 11. CDP        N         N
```

```
SCREEN 2 OF 3                    5ESS Switch
aspmpa                     OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT   DFLT ROUTE
18. TAT       ___        N           N
21. TBL       ___        N
24. TNA       ___        N

27. TNA TIMER ___

28. INTRA OFFICE FWD __
29. INTER OFFICE FWD __
```

```
SCREEN 3 OF 3                    5ESS Switch             _
aspmpa                     OFFICE DATA ADMINISTRATION
(5632-3)      ADVANCED SERVICES PLATFORM (MLHG/TERM) PARAMETERS

               NESS TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  SCRN GRP
30. NESS       ___       N         ___
```

Figure 2 SAMPLE ASPMPA FORM   5E14 AND LATER SOFTWARE RELEASES

SEC. 31D: 5632-4 RECORD
ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS FORM - ASPTPA

1. GENERAL

The 5632-4 Record is available with 5E9(1) and later Software Releases, and assigns ASP feature parameters to trunks if the default parameters of the ASPFD form (5632-1 Record) are inappropriate or unspecified.

See Division 2, Section 1AP for more information on ASP.

1.1 Recent Change View

The corresponding Recent Change View for this form is 5.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TGN

Description: Enter the Trunk Group Number.

Required Field.
Valid Entries:
For 5E10 and earlier: 1 - 2000
For 5E11 and later: 1 - 4000

Data Rules:

TGN must equal TRUNK GROUP on the corresponding TKGRPFA form (5206 Record).

TGN and MEMB must equal TGN and MEMB on the corresponding TRUNK (5204 Record) or TRUNKFA form (5205 Record).

2.3 * MEMB

Description: Enter the Trunk Group Member Number.

Required Field.
Valid Entries: 0 - 1951

Data Rules:

TGN and MEMB must equal TGN and MEMB on the corresponding TRUNK or TRUNKFA form.

2.4 * FEATURE

Description: Enter the feature name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

FEATURE must equal FEATURE on the corresponding ASPFD form, and CONTROL on that ASPFD form cannot equal "TERM".

For 5E14 and earlier, an ASP feature assigned to a TGN on the TRUNKFA form must have at least one TRIG NBR (OHI, OHD, or TA) entered or one ALLOWED field (FCD or CDP) set to "Y" on the ASPFD, ASPDP (5632-5 Record), or ASPTPA forms.

ORIGINATING TRIGGERS

Fields Section 2.5 - Section 2.11 refer to originating triggers. Originating triggers launch a query based on the calling number.

OHD TRIG NBR must be entered, or FCD ALLOWED or CDP ALLOWED must equal "Y".

An ASP feature assigned to a TRUNK GROUP on the TKGRPFA form or associated CLUSTR form (5600 Record) must have OHD TRIG NBR entered, or FCD ALLOWED or CDP ALLOWED equal "Y" on an ASPFD, ASPDP, or ASPTPA form.

2.5 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The Off-Hook Delay trigger is a subscribed originating trigger that queries the SCP data base after all dialed/signaled digits have been collected and validated from the originating line/trunk. If the dialed/signaled digits have been defined as an escape code digit string, a query is not launched; rather, normal call processing treatment is applied. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA form, if OHD TRIG NBR is entered on the ASPFD, ASPDP, or ASPTPA forms, the only other BCRS feature that may be assigned is a terminating ASP feature.

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form (5324 Record), where APPLICATION equals "ASP".

2.6 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.7 OHD DFLT ROUTE

Description: Is the Off-Hook Delay Default Route active? See Division 2, Section 4A516.

Software Release: 5E14 and later
Default: N
Valid Entries: Y, N

Data Rules:

If OHD DFLT ROUTE is "Y", OHD TRIG NBR must be entered.

For 5E14 and later, if OHD DFLT ROUTE is "Y", SFID 516 must be activated on the SFSYS form (5713 Record).

2.8 FCD ALLOWED

Description: Is the feature code dialing trigger allowed? Feature Code Dialing (formerly the ODP Prefix/Code trigger) is a subscribed trigger, querying the SCP when a subscriber goes off-hook and dials an ASP FCD access code. The query method depends on which digit collection method is provisioned.

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

2.9 FCD TRIG ACT

Description: Is the feature code dialing trigger active for the purpose of launching an SCP query?

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

Data Rules:

If FCD TRIG ACT is "Y", FCD ALLOWED must be "Y".

2.10 CDP ALLOWED

Description: Is the customized dialing plan trigger allowed? Customized Dialing Plan (formerly the IDP trigger) uses the IDP capabilities to access ASP. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For 5E15 and later, before TGN/MEMB(s) are assigned an ASP feature on either the TRUNKFA or TKGRPFA form or an associated CLUSTR form and an ASPFD or ASPTPA form exist with this feature where CDP ALLOWED is "Y" and the associated TGN defined on the TKGRP form with a TRKCLS value of "EDSL" or "EDSLHM", the following must be set to "Y" on the SFSYS form (Record 5713-1):

ACT SFID 254 - Restrict Usage of ASP Trigger feature

or

ACT SFID 255 - ASP Originating Triggers feature

and

ACT SFID 557 - ASP CDP Trigger on PRI feature.

2.11 CDP TRIG ACT

Description: Is the customized dialing plan trigger active for the purpose of launching an SCP query?

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

Data Rules:

If CDP TRIG ACT is "Y", CDP ALLOWED must be "Y".

TERMINATING TRIGGERS

For 5E15 and later, the following fields (Section 2.12 - Section 2.14) refer to Terminating Trunk Group Triggers. The ASP Terminating Trunk Group Trigger allows the 5ESS to provide an ASP trigger for calls terminating to designated Private Facility and Primary Rate Interface trunk groups.

See Div. 2, Sec. 4A546 for more information on the Terminating Trunk Group Trigger feature.

2.12 TGT TRIG NBR

Description: Enter the terminating trunk group trigger number.

Software Release: 5E15 and later
Valid Entries: 1 - 255

Data Rules:

When TGT TRIG ACT is "Y", TGT TRIG NBR must be entered.

When TGT DFLT ROUTE is "Y", TGT TRIG NBR must be entered.

When TGT TRIG NBR is entered, OHD TRIG NBR must not be entered and FCD ALLOWED and CDP ALLOWED must be "N".

For every TGT TRIG NBR on the ASPTPA form there must be a corresponding TRIG NBR entered on a NSTRIG form where APPLICATION equals "ASP" and AIN REL equals "R0D1".

The secured feature Terminating Trunk Group Trigger must be purchased before TGT TRIG NBR can be set to a valid value, therefore the ACT field for SFID 546 on the SFSYS form must be "Y".

2.13 TGT TRIG ACT

Description: Is the terminating trunk group trigger active?

Required Field.

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

Data Rules:

When TGT TRIG ACT is "Y", TGT TRIG NBR must be entered.

2.14 TGT DFLT ROUTE

Description: Is the terminating trunk group trigger default routing active?

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

Data Rules:

If TGTDFLT ROUTE is "Y", TGT TRIG NBR must be entered.

```
asptpa                           5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5632-4)       ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS

*1. TGN     1945
*2. MEMB    1948
*3. FEATURE SDG2

      ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT
 4. OHD        007       N

 TRIG TYPE  ALLOWED   TRIG ACT
 6. FCD        N         N
 8. CDP        N         N
```

Figure 1 SAMPLE ASPTPA FORM   5E9(1) - 5E13 SOFTWARE RELEASES

```
asptpa                           5ESS Switch             _
                          OFFICE DATA ADMINISTRATION
(5632-4)       ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS

*1. TGN     ____
*2. MEMB    ____
*3. FEATURE ________
```

```
      ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
 4. OHD        ___       N          N

 TRIG TYPE  ALLOWED   TRIG ACT
 7. FCD        N         N
 9. CDP        N         N
```

Figure 2 SAMPLE ASPTPA FORM 5E14 SOFTWARE RELEASES

```
SCREEN 1 OF 2                    5ESS Switch
asptpa                    OFFICE DATA ADMINISTRATION
(5632-4)       ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS

*1. TGN     ____
*2. MEMB    ____
*3. FEATURE ________

      ORIGINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
 4. OHD        ___       N          N

 TRIG TYPE  ALLOWED   TRIG ACT
 7. FCD        N         N
 9. CDP        N         N
```

```
SCREEN 2 OF 2                    5ESS Switch            _
asptpa                    OFFICE DATA ADMINISTRATION
(5632-4)       ADVANCED SERVICES PLATFORM (TGN/MEMB) PARAMETERS

               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
 11. TGT       ___       N           N
```

Figure 3 SAMPLE ASPTPA FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 31E: 5632-5 RECORD ADVANCED SERVICES PLATFORM FEATURE DEFAULT PARAMETERS FORM - ASPDP

1. GENERAL

The 5632-5 Record is available with the 5E9(1) Software Release only, and defines ASP (Advanced Services Platform) parameter data on a feature basis. It recovers existing (5E8) default parameter ASP data into the new BRCS format. This form can change default parameter data, but the data cannot be changed for preconstructed ASP features on the ASPFD form (5632-1 Record).

See Division 2, Section 1AP for more information on ASP.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE

Description: Enter the ASP feature Name.

Required Field.
Valid Entries: 1 - 8 characters

Data Rules:

FEATURE must equal FEATURE on the corresponding ASPFD form.

An ASP feature assigned to a TN on the LINEFA form (5112 Record), an MLHG on the MLHLNFA form (5113 Record), or a TGN on the TRUNKFA form (5205 Record) must have at least one TRIG NBR (OHI, OHD, or TA) entered or one ALLOWED field (FCD or CDP) set to "Y" on the ASPFD, ASPDP, ASPLPA (5632-2 Record), ASPMPA (5632-3 Record), or ASPTPA forms (5632-4 Record).

ORIGINATING TRIGGERS

Fields Section 2.3 - Section 2.10 refer to originating triggers. Originating triggers launch a query based on the calling number.

An ASP feature assigned to a TRUNK GROUP on the TKGRPFA form (5206 Record) or associated CLUSTR form (5600 Record) must have OHD TRIG NBR entered, or FCD ALLOWED or CDP ALLOWED equal "Y" on an ASPFD, ASPDP, or ASPTPA form.

2.3 OHI TRIG NBR

Description: Enter the trigger number for Off-Hook Immediate triggers. The Off-Hook Immediate trigger is a subscribed trigger, that queries the SCP without referencing a dialing plan after the subscriber goes off-hook.

The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHI TRIG NBR is entered,

- OHD TRIG NBR must not be entered, and
- FCD ALLOWED and CDP ALLOWED must be "N".

OHI TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form (5324 Record), where APPLICATION equals "ASP", and when AIN REL is "R0" on the NSTRIG form, SERV KEY must be "ANI".

For an ASP feature assigned to a TN on the LINEFA form or MLHG/TERM on the MLHLNFA form, if OHI TRIG NBR is entered on the ASPFD, ASPDP, ASPLPA, or ASPMPA forms, the only other BCRS feature that may be assigned is a terminating ASP feature.

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if OHI TRIG NBR is entered on the ASPFD, ASPDP, ASPLPA, or ASPMPA forms, the corresponding LCC form (5306 Record) must have CLASS OF SERVICE of "INDIV".

2.4 OHI TRIG ACT

Description: Is the Off-Hook Immediate trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHI TRIG ACT is "Y", OHI TRIG NBR must be entered.

2.5 OHD TRIG NBR

Description: Enter the Off-Hook Delay trigger number. The Off-Hook Delay trigger is a subscribed originating trigger that queries the SCP data base after all dialed/signaled digits have been collected and validated from the originating line/trunk. If the dialed/signaled digits have been defined as an escape code digit string, a query is not launched; rather, normal call processing treatment is applied. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If OHD TRIG NBR is entered, CDP ALLOWED must be "N".

OHD TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP".

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if OHD TRIG NBR is entered on the ASPFD, ASPDP, ASPLPA, or ASPMPA forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

For an ASP feature assigned to a TN on the LINEFA form, TGN/MEMB on the TRUNKFA form, TRUNK GROUP on the TKGRPFA form, or MLHG on the MLHLNFA form, if OHD TRIG NBR is entered on the ASPFD, ASPDP, ASPLPA, ASPMPA, or ASPTPA forms, the only other BCRS feature that may be assigned is a terminating ASP feature.

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA or TKGRPFA forms or an associated CLUSTR form, if OHI TRIG NBR or TA TRIG NBR is entered on an ASPFD or ASPDP form, an ASPTPA form must exist for this TGN/MEMB(s)/FEATURE combination. since an OHI TRIG NBR or a TA TRIG NBR cannot be assigned to a trunk.

2.6 OHD TRIG ACT

Description: Is the Off-Hook Delay trigger active for the purpose of launching an SCP query?

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

Data Rules:

If OHD TRIG ACT is "Y", OHD TRIG NBR must be entered.

2.7 FCD ALLOWED

Description: Is the feature code dialing trigger allowed? Feature Code Dialing (formerly the ODP Prefix/Code trigger) is a subscribed trigger, querying the SCP when a subscriber goes off-hook and dials an ASP FCD access code. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if FCD ALLOWED is "Y" on the ASPFD, ASPDP, ASPLPA, or ASPMPA forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.8 FCD TRIG ACT

Description: Is the feature code dialing trigger active for the purpose of launching an SCP query?

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

Data Rules:

If FCD TRIG ACT is "Y", FCD ALLOWED must be "Y".

2.9 CDP ALLOWED

Description: Is the customized dialing plan trigger allowed? Customized Dialing Plan (formerly the IDP trigger) uses the IDP capabilities to access ASP. The query method depends on which digit collection method is provisioned.

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

Data Rules:

For an ASP feature assigned to a TN on the LINEFA form, MLHG/TERM on the MLHLNFA form, or an associated CLUSTR form, if CDP ALLOWED is "Y" on the ASPFD, ASPDP, ASPLPA, or ASPMPA forms, the corresponding LCC form must have CLASS OF SERVICE of "INDIV", "ATND" or "ISDN".

2.10 CDP TRIG ACT

Description: Is the customized dialing plan trigger active for the purpose of launching an SCP query?

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

Data Rules:

If CDP TRIG ACT is "Y", CDP ALLOWED must be "Y".

TERMINATING TRIGGERS

Fields Section 2.11 - Section 2.13 refer to terminating triggers. Terminating triggers launch a query based on the number called.

2.11 TA TRIG NBR

Description: Enter the terminating attempt trigger number. The trigger number is a pointer to access the particular trigger.
Valid Entries: 1 - 255

Data Rules:

If TA TRIG NBR is entered,

- OHI TRIG NBR and OHD TRIG NBR must not be entered, and
- FCD ALLOWED and CDP ALLOWED must be "N".

TA TRIG NBR must equal TRIG NBR on the corresponding NSTRIG form, where APPLICATION equals "ASP" and AIN REL equals "R0D1".

For an ASP feature assigned to a TGN/MEMB on the TRUNKFA or TKGRPFA forms or an associated CLUSTR form, if OHI TRIG NBR or TA TRIG NBR is entered on an ASPFD or ASPDP form, an ASPTPA form must exist for this TGN/MEMB(s)/FEATURE combination. since an OHI TRIG NBR or a TA TRIG NBR cannot be assigned to a trunk.

No more than one ASP feature with a TA TRIG NBR entry on an ASPFD, ASPDP, ASPLPA, or ASPMPA form may be assigned to a TN on a LINEFA, an MLHG/TERM on an MLHLNFA, or associated CLUSTR form.

2.12 TA TRIG ACT

Description: Is the terminating attempt trigger active for the purpose of launching an SCP query?

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

Data Rules:

If TA TRIG ACT is "Y", TA TRIG NBR must be entered.

2.13 TA DFLT ROUTE

Description: Is the terminating attempt trigger default routing active?

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

Data Rules:

If TA DFLT ROUTE is "Y", TA TRIG NBR must be entered.

The TA DFLT ROUTE field is used by the ASP Default Routing for Terminating Attempt Triggers Special Feature. It is a secured feature and must be purchased by the office before this field can be set to "Y". If this field is set to "Y", a SFSYS form must exist with SFID 136 ACT field set to "Y".

2.14 INTRA OFFICE FWD

Description: Enter the number of intra-office calls that can be forwarded.
Valid Entries: 1 - 99

2.15 INTER OFFICE FWD

Description: Number of inter-office calls that can be forwarded.
Valid Entries: 1 - 99

```
aspdp                            5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5632-5)        ADVANCED SERVICES PLATFORM DEFAULT PARAMETERS

*1. FEATURE ________

      ORIGINATING TRIGGERS               TERMINATING TRIGGERS
 TRIG TYPE  TRIG NBR  TRIG ACT      TRIG TYPE  TRIG NBR  TRIG ACT  DFLT ROUTE
 2. OHI        ____      N         10. TA         ____      N          N
 4. OHD        ____      N

 TRIG TYPE  ALLOWED   TRIG ACT     13. INTRA OFFICE FWD __
 6. FCD        N         N         14. INTER OFFICE FWD __
```

```
 8. CDP         N         N
```

Figure 1 SAMPLE ASPDP FORM 5E9(1) SOFTWARE RELEASE

SEC. 31F: 5634 RECORD
ADVANCED SERVICES PLATFORM NESS GROUP SCREENING LIST FORM - ASPGRP

1. GENERAL

The 5634 Record is available with 5E9(2) and later Software Releases, and defines a list of TN values that are allowed to be called for a given screening list group. This screening list group is used by terminals that have the ASP (Advanced Services Platform) NESS (Network Element Services Signaling) secured feature assigned to them.

See Division 2, Section 4A185 for more information on concerning this feature.

1.1 Recent Change View

The corresponding Recent Change View for this form is 4.64.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * SCRN GRP

Description: Enter the ASP NESS screening group number.

Required Field.
Valid Entries: 1 - 255

2.3 TN

Description: Enter the a 10-digit telephone number.

Required Field.
Valid Entries: 10-digit number

Data Rules:

TN entries must be unique.

There must be at least one TN entry in the TN LIST.

```
SCREEN 1 OF 4                    5ESS SWITCH
aspgrp                    OFFICE DATA ADMINISTRATION
5634                     ASP NESS GROUP SCREENING LIST

*1. SCRN GRP ___

                                 2. TN LIST
ROW       TN        ROW      TN         ROW       TN        ROW      TN
```

1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	
8		16		24		32	

SCREEN 2 OF 4 5ESS SWITCH
aspgrp OFFICE DATA ADMINISTRATION
5634 ASP NESS GROUP SCREENING LIST

2. TN LIST

ROW	TN	ROW	TN	ROW	TN	ROW	TN
33		43		53		63	
34		44		54		64	
35		45		55		65	
36		46		56		66	
37		47		57		67	
38		48		58		68	
39		49		59		69	
40		50		60		70	
41		51		61		71	
42		52		62		72	

SCREEN 3 OF 4 5ESS SWITCH
aspgrp OFFICE DATA ADMINISTRATION
5634 ASP NESS GROUP SCREENING LIST

2. TN LIST

ROW	TN	ROW	TN	ROW	TN	ROW	TN
73		83		93		103	
74		84		94		104	
75		85		95		105	
76		86		96		106	
77		87		97		107	
78		88		98		108	
79		89		99		109	
80		90		100		110	
81		91		101		111	
82		92		102		112	

SCREEN 4 OF 4 5ESS SWITCH
aspgrp OFFICE DATA ADMINISTRATION
5634 ASP NESS GROUP SCREENING LIST

2. TN LIST

ROW	TN	ROW	TN
113	____________	123	____________
114	____________	124	____________
115	____________	125	____________
116	____________	126	____________
117	____________	127	____________
118	____________	128	____________
119	____________		
120	____________		
121	____________		
122	____________		

Figure 1 SAMPLE ASPGRP FORM 5E9(2) SOFTWARE RELEASE AND LATER

SEC. 31G: 5670 RECORD
ADVANCED SERVICES PLATFORM OPTIONS - ASPOPT

1. GENERAL

The 5670 Record is available with 5E12 and later Software Releases, and is used to set the ASP office parameters for the office.

See Division 2, Section 4A126 for more information on ASP.

1.1 Recent Change View

The corresponding Recent Change View for this form is 8.49.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *KEY

Description: Enter the key value which is always 0.

Software Release: 5E12 and later
Required Field.

2.3 MAX TRIG

Description: Enter the number of times an ASP protocol call can serially trigger.

Software Release: 5E12 and later
Valid Entries: 1 - 6

Data Rules:

When MAX TRIG is entered, then ASP OFC must be "SSP".

2.4 ACG FNL TRMT

Description: Enter the ACG (Automatic Call Gap) final treatment for calls blocked due to ACG controls.

Software Release: 5E12 and later
Required Field.
Default: RT
Valid Entries:

Valid ACG FNL TRMT Entries

Entry	Definition
RT	Reorder tone.
VA	Voice announcement. Routed to the "NCA" (National Congestion Announcement (no circuits available) Fixed Route Type.

2.5 RDRCT THRES

Description: Enter the Forward Call Redirection Threshold, the number of times an ASP call can be forwarded.

Software Release: 5E12 and later
Valid Entries: 1 - 9

Data Rules:

When RDRCT THRES is entered, then ASP OFC must be "SSP".

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, RDRCT THRES must not be entered until SFID 126 ACT on the SFSYS form has been set to "Y".

2.6 ESC CD CNTL

Description: Is the escape code shared with interoffice trunk triggers? The ESC CD CNTL field is used to specify on a per SSP (Service Switching Point) basis if an escape code applies to both an OHD (Off-Hook Delay) trigger and a shared interoffice trunk trigger.

Software Release: 5E12 and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

When ESC CD CNTL is entered, then ASP OFC must be "SSP".

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, ESC CD CNTL must be "N" until SFID 126 ACT on the SFSYS form has been set to "Y".

2.7 SCP DAS

Description: Enter the single DAS value for SCP return route trunk ASP calls. The SCP DAS field is used as the DAS (Digit Analysis Selector) for retranslating ASP (Advanced Services Platform) calls after querying the external SCP (Service Control Point) database. At an ASP office, a query is made to an external SCP database to obtain routing information necessary to complete the call. The SCP DAS indicates where translations should begin in digit analysis for routing numbers which are returned from the SCP database.

Software Release: 5E12 and later
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

When SCP DAS is entered, then ASP OFC must be "SSP".

When an SCP DAS is entered, it must be defined on an associated DAS form.

2.8 ASP OFC

Description: Enter the type of ASP (Advanced Services Platform) support to be provided by this office.

Software Release: 5E12 and later
Required Field.
Default: NONE
Valid Entries:

Valid ASP OFC Entries

Entry	**Definition**
NONE or N	This office does not support ASP.
SSP or S	This office is an ASP SSP (Service Switching Point).

Data Rules:

Since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, ASP OFC must be "NONE" until SFID 58 on the SFSYS form has been set to "S" or "Y".

When ASP OFC is "NONE",

- MAX CONV must be 5.
- NSTRIG forms must have APPLICATION equal to "E911" or 800.
- No ICF forms may exist with ASP CDI or ASP RTI entered.
- No MCRTIDX forms (5304 Record) may exist with MC ROUTE TYPE equal to "ASP".
- No IDPDCA forms may exist with ACTION or CONFLICT ACTION equal to "IDPASP" (For 5E9(1) and later, "ASPDNC", "ASPNORM", "ASPVAR").
- No PDIT forms may exist with ACTION equals "ASPDNC", "ASPNORM", or "ASPVAR".
- There is no office support for ASP. The ICF forms can have neither ASP TF CDI nor ASP TF RTI entered.

When ASP OFC is "SSP",

- SCP DAS must be entered
- PSEUDO CARR must be entered
- ASP ANI must be entered
- INT OFC TRIG must be entered
- MAX TRIG must be entered
- and APPLICATION equals "ASP" (and for 5E9(1) and later, AIN REL equals "R0") on an NSTRIG form (5324 Record), SERV KEY on that NSTRIG form must equal "CDPN" or "ANI".
- Any MCRTIDX forms where MC ROUTE TYPE equals "ASP" must not have TRUNK GROUP NUMBER, DIGITS TO BE DELETED, PREFIX DIGITS, NEXT ROUTE, or NEXT MC ROUTE INDEX entered.
- A DSAPP form must exist with APPLIC set to "ASP" or "AINR0D1".

- since ASP is a secured feature and must be purchased by the office before ASP data can be assigned, MAX TRIG must equal 3 unless SFID 126 ACT on the SFSYS form has been set to "Y".

When ASP OFC is not "SSP",

- NATURE OF NBR on all LDIT, MLDIT (5300-3 Record), PDIT (5300-2 form), or RDIT forms (5300-7/8 Record), and NON for CONFLICT RESOLUTION ENTRY on all LDIT or RDIT forms must not be entered.
- there must be no SCFAM forms where STRUCT CODE FAMILY equals "ASP".
- NATURE OF NBR on all LDIT, MLDIT (5300-3 Record), or RDIT forms (5300-7/8 Record), and NON on all LDIT or RDIT forms must not be entered.
- there must be no SSPANN forms where CUST HDRID or CUST TRLID is entered.

2.9 PSEUDO CARR

Description: Enter the carrier ID that is to be outpulsed in the EA (Equal Access) signaling stream to the SSP. This carrier must also be defined in the Access Tandem as a pseudo carrier.

Software Release: 5E12 and later
Valid Entries: 0 - 9999

Data Rules:

PSEUDO CARR must equal CARRIER ID on an ICF form, with the ICF form's FEAT GRP equal to "D".

2.10 ASP ANI

Description: Enter the digits to be used as the ASP (Advanced Services Platform) ANI (Automatic Number Identifier). This ANI is used to distinguish an incoming EAMF/CCS7 trunk call as ASP. It is also used as the ANI II digits on an outgoing EAMF/CCS7 trunk when the SCP does not provide an OST (Originating Station Type) parameter to be outpulsed as the ANI II.

Software Release: 5E12 and later
Valid Entries: 00 - 99, but value 100 may be input to represent a "null" ASP ANI.

2.11 MAX CONV

Description: Enter the maximum number of conversations an ASP call is allowed to have, per transaction, with the SCP. (See Division 2, Section 4A on Secured Features for more information.)

Software Release: 5E12 and later
Required Field.
Default: 5
Valid Entries: 1 - 30

Data Rules:

When ASP OFC is "NONE", MAX CONV must be 5.

This parameter is used by the Advanced Services Platform feature, which is a Secured Feature. Before this field may be set to a value other than the default, SFID 51 on the SFSYS form (5713 Record) must be set to "Y".

2.12 ASP RESP

Description: Enter the ASP (Advanced Services Platform) SCP response timer. This is the number of seconds an ASP call will suspend, waiting for the SCP to respond to the ASP query. When the SCP fails to respond in this specified time interval, the call is routed to reorder.

Software Release: 5E12 and later
Required Field.
Default: 3
Valid Entries: 1 - 5

2.13 IGN OHD 0+PQSCR

Description: Should pre-query screening be ignored for 0+ prefix calls on a line with an Off-Hook Delay trigger? This field supports the ASP Pre-Query Screening for OHD Triggers secured feature. For more information on this feature, see Division 2, Section 4A178.

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries:

Valid PRE QUERY SCR Entries

Entry	Definition
Y	0+ calls will not be part of the pre-query screening.
N	0+ calls will be subject to screening.

Data Rules:

This field supports the ASP Pre-Query Screening for OHD Triggers secured feature. Before this field can be changed, the ACT field for SFID 178 on the SFSYS form (5713-1 Record) must be set to "Y".

2.14 INT OFC TRIG

Description: Enter the shared interoffice trigger number.

Software Release: 5E12 and later
Valid Entries: 1 - 255

Data Rules:

When INT OFC TRIG is entered, then ASP OFC must be "SSP".

When INT OFC TRIG is entered, it must equal TRIG NBR on an NSTRIG form, where APPLICATION equals "ASP".

2.15 ORIG BL TRIG

Description: Enter the originating busy line trigger number. The ORIG BL TRIG field is used to specify the trigger number used to locate the unique network service when a busy line condition is encountered. Population of this field indicates that a query will be launched to an external database. This field supports the

ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. For more information concerning this feature, see Division 2, Section 4A189.

Software Release: 5E12 and later
Valid Entries: 1 - 255

Data Rules:

This field supports the ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. The SFID 189 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before the ORIG BL TRIG or ORIG NA TRIG field may be entered.

When this field is entered, the ORIG BL TRIG must be defined on the NSTRIG form (5324 form) as TRIG NBR. On the NSTRIG form, APPLICATION must be "ASP" and AIN REL must be "R0D1".

2.16 ORIG NA TRIG

Description: Enter the originating no answer trigger number. The ORIG NA TRIG field is used to specify the trigger number used to locate the unique network service when a no answer condition is encountered. Population of this field indicates that a query will be launched to an external database. This field supports the ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. For more information concerning this feature, see Division 2, Section 4A189.

Software Release: 5E12 and later
Valid Entries: 1 - 255

Data Rules:

This field supports the ASP Originating Busy/No Answer Triggers with Extended Ringing secured feature. The SFID 189 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before the ORIG BL TRIG or ORIG NA TRIG field may be entered.

When this field is entered, the ORIG NA TRIG must be defined on the NSTRIG form (5324 form) as TRIG NBR. On the NSTRIG form, APPLICATION must be "ASP" and AIN REL must be "R0D1"

2.17 ORIG NO ANS TIME

Description: Enter the timeout value in seconds for the ASP Originating No Answer timer. The timer may be superceded by SCP provided "No Answer Timer" parameter if received by the SSP. This field supports the ASP BLNA (Busy Line No Answer) secured feature. For more information on this feature see Division 2, Section 4A147. This field also supports the Originating Busy Line/No Answer Office Triggers with Extended Ringing feature. For more information on this feature see Division 2, Section 4A189.

Software Release: 5E12 and later.
Valid Entries: 1 - 120 (seconds)

Data Rules:

This field is used by the ASP BLNA and ASP Originating Busy/No Answer Triggers with Extended Ringing secured features. Therefore, before this field can be entered, the ACT field for either SFID 147 or SFID 189 on the SFSYS form (5713-1 Record) must be set to "Y".

2.18 INH OFC OBL OOL

Description: Is the ASP office busy line trigger out of LATA inhibited? The INH OFC OBL OOL field was added to support ASP Call Screening of Busy/No Answer (BLNA) Office Triggers. The feature was first made available in a 5E11 Software Update. This field was moved to this form for the 5E12 Software Release.

Required Field.

2.19 INH OFC ONA OOL

Description: Is the ASP office no answer trigger out of LATA inhibited? The INH OFC ONA OOL field was added to support ASP Call Screening of Busy/No Answer (BLNA) Office Triggers. The feature was first made available in a 5E11 Software Update. This field was moved to this form for the 5E12 Software Release.

Required Field.

2.20 TERM NO ANS TIME

Description: This field is used to indicate the no answer timeout value in seconds for the ASP Terminating Busy Line/No Answer feature.

Software Release: 5E14 and later
Required Field.
Default: 18
Valid Entries: 1 - 120 in seconds

2.21 AMA AIN BUSY NA

Description: Is the AMA Recording - AIN Busy and Don't Answer feature active? The AMA AIN BUSY NA field supports the AMA Recording - AIN Busy and Don't Answer secured feature. For more information concerning this feature, see Division 2, Section 4A166.

Required Field.

Data Rules:
The AMA AIN BUSY NA field supports the AMA Recording - AIN Busy and Don't Answer secured feature. The SFID 166 ACT field on the SFSYS form (5713-1 Record) must be set to "Y" before this field may be set to "Y".

ORIG DAS FOR ASP TRIGGERS

The following fields (Section 2.22 - Section 2.24) define the parameters which support the ASP Multiple Rate Center Support feature. This is a secured feature with SFID 162. For more information on this feature, see Division 2, Section 4A162.

For 5E15 and later the TGT (Trunk Group Trigger) was added to Section 2.24 to extend the ASP Triggers to include support of the Terminating Trunk Group Triggers feature, see Division 2, Section 4A546.

2.22 ARS FCD CDP

Description: Is the DAS (Digit Analysis Selector) assigned to the originator used after ARS (Automatic Route Selection) FCD (Feature Code Dialing), and CDP (Customized Dialing Plan) triggers? If "Y" is entered, the DAS assigned to the originator is used to interpret digits after an ASP query for ARS, FCD, and CDP triggers.

If "N" is entered, the SCP DAS is used to interpret digits after an ASP query for ARS, FCD, and CDP triggers.

Software Release: 5E12 and later.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

SFID 162 on the SFSYS form (5713-1 Record) must have the ACT field set to "Y" before the ARS FCD CDP or OHI OHD TAT field can be set to "Y".

2.23 OHI OHD TAT

Description: Is the DAS (Digit Analysis Selector) assigned to the originator used after OHI (Off-Hook Immediate), OHD (Off-Hook Demand), and TAT (Termination Attempt Triggers) triggers? If "Y" is entered, the DAS assigned to the originator is used to interpret digits after an ASP query for OHI, OHD, and TAT triggers. If "N" is entered, the SCP DAS is used to interpret digits after an ASP query for OHI, OHD, and TAT triggers.

Software Release: 5E12 through 5E14.
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

SFID 162 on the SFSYS form (5713-1 Record) must have the ACT field set to "Y" before the ARS FCD CDP or OHI OHD TAT field can be set to "Y".

2.24 OHI OHD TAT TGT

Description: Is the DAS (Digit Analysis Selector) assigned to the originator used after OHI (Off-Hook Immediate), OHD (Off-Hook Demand), TAT (Termination Attempt Triggers), and TGT (Trunk Group Triggers) triggers? If "Y" is entered, the DAS assigned to the originator is used to interpret digits after an ASP query for OHI, OHD, TAT, and TGT triggers. If "N" is entered, the SCP DAS is used to interpret digits after an ASP query for OHI, OHD, TAT and TGT triggers.

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

Data Rules:

SFID 162 on the SFSYS form (5713-1 Record) must have the ACT field set to "Y" before the ARS FCD CDP or OHI OHD TAT TGT field can be set to "Y".

ASP IP TIMERS

The following fields (Section 2.25 - Section 2.26) are used to set the maximum duration of a STOR (Send To Outside Resource) connection and the maximum amount of time the switch will wait for the IP (Intelligent Peripheral) to send the Disconnect message. These fields support the AIN SSP Send To Outside Resource

(Local) feature. For more information on this feature, see Division 2, Section 4A229.

2.25 TSTRC

Description: Enter the STOR (Sent To Outside Resource (Local)) connection time. This field indicates the maximum duration of a STOR connection, as measured from the Connect message received from the IP. 0 indicates no timing.

Software Release: 5E12 and later
Required Field.
Default: 06
Valid Entries:
  For 5E12 thru 5E14: 0 - 60 minutes
  For 5E15 and later: 0 - 300 minutes

Data Rules:

STOR (Send To Outside Resource (Local) is a secured feature. Before STOR data can be assigned, TSTRC must be 06 until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

For 5E15 and later, when TSTRC is set to a value greater than 60, then the ACT field for SFID 560 on the SFSYS form has to be set to "Y".

2.26 TDISC

Description: Enter the STOR (Sent To Outside Resource (Local) disconnection time. This field indicates the maximum amount of time the switch will wait for the IP to send the Disconnect message after a facility message with a Cancel IP Resource operation is sent from the SSP (Service Switching Point) to the IP.

Software Release: 5E12 and later
Required Field.
Default: 4.0
Valid Entries: 1.0 - 4.0 (in increments of 0.5)

Data Rules:

STOR (Send To Outside Resource (Local)) is a secured feature. Before STOR data can be assigned, TDISC must be 4.0 until SFID 126 ACT and SFID 229 ACT on the SFSYS form have been set to "Y".

EON DAS ASP TRIGGERS

The following fields (Section 2.27 - Section 2.29) are proprietary.

2.27 EON APN DAS

Description: Proprietary field.

Software Release: 5E14 and later

2.28 EON LOCAL DAS

Description: Proprietary field.

Software Release: 5E14 and later

2.29 EON TOLL DAS

Description: Proprietary field.

Software Release: 5E14 and later

ASP TIMEOUT ALARM

The following fields (Section 2.30 - Section 2.31) are used to specify the interval of time within which ASP queries are counted and to indicate the percentage of ASP timeout queries within a specified interval. These fields support the ASP (Advanced Services Platform) Timeout Alarm feature. For more information on this feature, see Division 2, Section 2Y.

2.30 TIME INTERVAL

Description: The TIME INTERVAL field indicates the interval of time within which ASP queries are counted.

Software Release: 5E15 and later
Default: 60
Valid Entries: Blank, or enter 5 - 60 in five-minute increments.

2.31 ALARM THRESHOLD

Description: The ALARM THRESHOLD indicates the percentage of ASP timeout queries within a specified interval.

Software Release: 5E15 and later
Default: 100
Valid Entries: Blank, or enter 1 - 100 percent.

ASP MID CALL EVENT

The following fields (Section 2.32 - Section 2.33) are used to specify the timing interval (for 5E13 and later) and indicate the activity of the Mid Call Events (for 5E15 and later). These fields support the ASP (Advanced Services Platform) Mid Call Event Detection feature. For more information on this feature, see Division 2, Section 4A343.

2.32 ODTMF INTERDIG TIM

Description: The ODTMF INTERDIG TIM (Originating Dual Tone Multi-Frequency Interdigit Timing) field is used to specify the originating dual tone multi-frequency interdigit timing interval for Mid Call Event digits.

Software Release: 5E13 and later
Required Field.
Default: 4
Valid Entries: 2 - 10 seconds

Data Rules:

For 5E13 and later, when the ODTMF INTERDIG TIM field is set to a valid value other than 4, the ACT field for SFID 345 on the SFSYS form (5713-1 Record) must be set to "Y".

2.33 MID CALL EVENT ON

Description: The MID CALL EVENT ON field indicates whether one or both Mid Call Events (O_Disconnect_Called and O_DTMF_Entered) are active and to increase the SRE (Software Resource Engineering).

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

Data Rules:

When the MID CALL EVENT ON field is set to "Y", either the ACT field for SFID 343 or the ACT field for SFID 345 must also be set to "Y".

CRITICAL INDICATORS

The following fields (Section 2.34 - Section 2.43) support the RC Translations Protection for Highly Critical Elements feature. For more information on this feature, see Division 2, Section 1BY.

For 5E15 and later the TGT (Trunk Group Trigger) was added to Section 2.43 to extend the CRITICAL INDICATORS to include support of the Terminating Trunk Group Triggers feature, see Division 2, Section 4A546.

2.34 CRIT MAX TRIG

Description: The CRIT MAX TRIG field is used to indicate whether the MAX TRIG field is critical.

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

2.35 CRIT RDRCT THRES

Description: The CRIT RDRCT THRES field is used to indicate whether the RDRCT THRES field is critical.

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

2.36 CRIT SCP DAS

Description: The CRIT SCP DAS field is used to indicate whether the SCP DAS field is critical.

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

Valid Entries: Y, N

2.37 CRIT ASP OFC

Description: The CRIT ASP OFC field is used to indicate whether the ASP OFC field is critical.

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

2.38 CRIT MAX CONV

Description: The CRIT MAX CONV field is used to indicate whether the MAX CONV field is critical.

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

2.39 CRIT ORIG BL TRIG

Description: The CRIT ORIG BL TRIG field is used to indicate whether the ORIG BL TRIG field is critical.

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

2.40 CRIT ORIG NA TRIG

Description: The CRIT ORIG NA TRIG field is used to indicate whether the ORIG NA TRIG field is critical.

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

2.41 CRIT ARS FCD CDP

Description: The CRIT ARS FCD CDP field is used to indicate whether the ARS FCD CDP field is critical.

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

2.42 CRIT OHI OHD TAT

Description: The CRIT OHI OHD TAT field is used to indicate whether the OHI OHD TAT field is critical.

Software Release: 5E13 through 5E14
Required Field.

Default: N
Valid Entries: Y, N

2.43 CRIT OHI OHD TAT TGT

Description: The CRIT OHI OHD TAT TGT field is used to indicate whether the OHI OHD TAT TGT field is critical.

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

```
aspopt                            5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

*1. KEY             0            13. INT OFC TRIG     ___
 2. MAX TRIG        _            14. ORIG BL TRIG     ___
 3. ACG FNL TRMT    RT           15. ORIG NA TRIG     ___
 4. RDRCT THRES     _            16. ORIG NO ANS TIME ___
 5. ESC CD CNTL     N            17. INH OFC OBL OOL  N
 6. SCP DAS         __           18. INH OFC ONA OOL  N
 7. ASP OFC         NONE         19. AMA AIN BUSY NA  N
 8. PSEUDO CARR     _____
 9. ASP ANI         __
10. MAX CONV        5
11. ASP RESP        3
12. IGN OHD 0+PQSCR N
```

```
aspopt                            5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

ORIG DAS FOR ASP TRIGGERS
20. ARS FCD CDP N
21. OHI OHD TAT N

ASP IP TIMERS
22. TSTRC 06
23. TDISC 4.0

    ASP MID CALL EVENT
24. ODTMF INTERDIG TIM 4
```

```
aspopt                            5ESS Switch
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
```

```
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

  CRITICAL INDICATORS
26. CRIT MAX TRIG     N
27. CRIT RDRCT THRES  N
28. CRIT SCP DAS      N
29. CRIT ASP OFC      N
30. CRIT MAX CONV     N
31. CRIT ORIG BL TRIG N
32. CRIT ORIG NA TRIG N
33. CRIT ARS FCD CDP  N
34. CRIT OHI OHD TAT  N
```

Figure 1 SAMPLE ASPOPT FORM 5E13 SOFTWARE RELEASE

```
aspopt                            5ESS Switch
SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

*1. KEY             0            13. INT OFC TRIG     ___
 2. MAX TRIG        _            14. ORIG BL TRIG     ___
 3. ACG FNL TRMT    RT           15. ORIG NA TRIG     ___
 4. RDRCT THRES     _            16. ORIG NO ANS TIME 18
 5. ESC CD CNTL     N            17. INH OFC OBL OOL  N
 6. SCP DAS         __           18. INH OFC ONA OOL  N
 7. ASP OFC         NONE         19. TERM NO ANS TIME 18
 8. PSEUDO CARR     ____         20. AMA AIN BUSY NA  N
 9. ASP ANI         __
10. MAX CONV        5
11. ASP RESP        3
```

```
aspopt                            5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

ORIG DAS FOR ASP TRIGGERS        ASP MID CALL EVENT
21. ARS FCD CDP N            28. ODTMF INTERDIG TIM 4
22. OHI OHD TAT N

ASP IP TIMERS
23. TSTRC 06
24. TDISC 4.0

EON DAS FOR ASP TRIGGERS
25. EON APN DAS   __
26. EON LOCAL DAS __
27. EON TOLL DAS  __
```

```
aspopt                            5ESS Switch
SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

  CRITICAL INDICATORS
30. CRIT MAX TRIG     N
31. CRIT RDRCT THRES  N
32. CRIT SCP DAS      N
33. CRIT ASP OFC      N
34. CRIT MAX CONV     N
35. CRIT ORIG BL TRIG N
36. CRIT ORIG NA TRIG N
37. CRIT ARS FCD CDP  N
38. CRIT OHI OHD TAT  N
```

Figure 2 SAMPLE ASPOPT FORM 5E14 SOFTWARE RELEASE

```
aspopt                            5ESS Switch

SCREEN 1 OF 3             OFFICE DATA ADMINISTRATION

(5670)                ADVANCED SERVICES PLATFORM OPTIONS


*1. KEY             0            13. INT OFC TRIG     ___

 2. MAX TRIG        _            14. ORIG BL TRIG     ___

 3. ACG FNL TRMT    RT           15. ORIG NA TRIG     ___

 4. RDRCT THRES     _            16. ORIG NO ANS TIME 18

 5. ESC CD CNTL     N            17. INH OFC OBL OOL  N

 6. SCP DAS         ___          18. INH OFC ONA OOL  N

 7. ASP OFC         NONE         19. TERM NO ANS TIME 18

 8. PSEUDO CARR     ____         20. AMA AIN BUSY NA  N

 9. ASP ANI         __

10. MAX CONV        5

11. ASP RESP        3

12. IGN OHD 0+PQSCR N
```

```
aspopt                            5ESS Switch
SCREEN 2 OF 3             OFFICE DATA ADMINISTRATION
(5670)                ADVANCED SERVICES PLATFORM OPTIONS

ORIG DAS FOR ASP TRIGGERS       ASP TIMEOUT ALARM
21. ARS FCD CDP     N        28. TIME INTERVAL   60
22. OHI OHD TAT TGT N        29. ALARM THRESHOLD 100

ASP IP TIMERS                    ASP MID CALL EVENT
23. TSTRC 006                30. ODTMF INTERDIG TIM 4
24. TDISC 4.0                31. MID CALL EVENT ON  N

EON DAS FOR ASP TRIGGERS
25. EON APN DAS   ___
26. EON LOCAL DAS ___
27. EON TOLL DAS  ___
```

```
aspopt                            5ESS Switch           _

SCREEN 3 OF 3             OFFICE DATA ADMINISTRATION

(5670)                ADVANCED SERVICES PLATFORM OPTIONS



    CRITICAL INDICATORS

32. CRIT MAX TRIG        N

33. CRIT RDRCT THRES     N
```

```
34. CRIT SCP DAS         N

35. CRIT ASP OFC         N

36. CRIT MAX CONV        N

37. CRIT ORIG BL TRIG    N

38. CRIT ORIG NA TRIG    N

39. CRIT ARS FCD CDP     N

40. CRIT OHI OHD TAT TGT N
```

Figure 3 SAMPLE ASPOPT FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 31H: 5649 RECORD
BLOCKED LINE ASP FCD CODES - LNBLKCOD

1. GENERAL

The 5649 Record is available with 5E15 and later Software Releases, and provides analog and ISDN circuit TNs the capability of blocking selected (unrestricted FCD) triggers by those users who show no interest in using specific services and do not want to access them by inadvertently dialing the trigger code. This form was added to support the ASP Unrestricted FCD Trigger feature. See Division 2, Section 4A572 for more information.

The secured feature ASP Unrestricted FCD Trigger must be purchased before the LNBLKCOD form can be entered, the ACT field for SFID 572 on the SFSYS form must be set to "Y".

1.1 Recent Change View

The corresponding Recent Change Views for this form is 4.40.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * TN

Description: Enter the Telephone Number for which certain ASP FCD codes will be blocked.
Valid Entries: Enter XXXXXXX or NXXXXXXXXX where N equals 2 - 9 and X equals 0 - 9.

Data Rules:

When a TN is entered at least one FCD CODE must be entered.

A LNBLKCOD form cannot be entered if the corresponding LINE form URT FCD BLK field is set to "Y". LNBLKCOD corresponds with the LINE form when the TNs match.

When a TN is entered on the LNBLKCOD form, it must be entered as a TN on the LINE form, MLHLN form, or a CKT TN/CKT MLHG TN on the DSLUSR form.

When a TN is entered on the LNBLKCOD FORM it also must be entered as a TN on the LINE form or MLHLN form with a CLASS OF SERVICE of "INDIV" or "ATND" on the correponding LCC form, or as a CKTN or CKT MLHG TN on the DSLUSR form with a CLASS OF SERVICE of "ISDN" or "ISATND" on the corresponding LCC form. Forms correspond when the LCC and RAX fields match.

BLOCKED CODES LIST

The following field refers to the BLOCKED CODES LIST, consisting of up to 32 FCD triggers.

2.3 FCD CODE

Description: Enter the ASP unrestricted FCD code to be blocked.
Valid Entries: Enter Blank, or 1 to 7 dialable digits (0 - 9,* or #). If # or * are entered as single characters, they must be preceded by a space.

Data Rules:

At least one FCD CODE must be entered.

FCD CODE must be unique in BLOCKED CODES LIST.

The FCD CODE entered on the LNBLKCOD form must be entered as DIGITS TO INTERPRET on a PDIT form, where FEATURE is set to "/*" and ACTION is "ASPDNC", "ASPNORM", or "ASPVAR".

```
lnblkcod                        5ESS Switch          _
                          OFFICE DATA ADMINISTRATION
(5649)                    BLOCKED LINE ASP FCD CODES

*1. TN __________

                 2. BLOCKED CODES LIST (BLKCODESLIST)
    FCD          FCD          FCD          FCD          FCD          FCD
ROW CODE     ROW CODE     ROW CODE     ROW CODE     ROW CODE     ROW CODE
 1  _______    7 _______   13 _______   19 _______   25 _______   31 _______
 2  _______    8 _______   14 _______   20 _______   26 _______   32 _______
 3  _______    9 _______   15 _______   21 _______   27 _______
 4  _______   10 _______   16 _______   22 _______   28 _______
 5  _______   11 _______   17 _______   23 _______   29 _______
 6  _______   12 _______   18 _______   24 _______   30 _______
```

Figure 1 SAMPLE LNBLKCOD FORM 5E15 AND LATER SOFTWARE RELEASES

SEC. 31I: 5650 RECORD
SIMULTANEOUS RINGING FEATURE DEFINITION - SRFD

1. GENERAL

The 5650 Record is available with 5E16 and later Software Releases, and provides the ability to define Simultaneous Ringing features. This form was added to support the Simultaneous Ringing feature. See Division 2, Section 4A587 for more information.

The Simultaneous Ringing feature is a secured feature and must be purchased before the SRFD form can be entered. ACT must be set to "Y" for SFID 587 on the SFSYS form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 12.65.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * FEATURE NAME

Description: This field identifies a particular Simultaneous Ringing feature by name.

Software Release: 5E16 and later
Valid Entries: Enter up to 8 alphanumeric characters. Feature name entries must be unique. Preconstructed features always begin with a slash (/).

2.3 REMARKS

Description: An optional field used to provide any additional information regarding this feature.

Software Release: 5E16 and later
Valid Entries: Enter up to 32 alphanumeric characters.

FEATURE OPTIONS

Fields Section 2.4 - Section 2.5 refer to the feature activation and deactivation options.

2.4 ACT TYPE

Description: This is a display only field which indicates the feature activation type.

Software Release: 5E16 and later
Default: CODE
Valid Entries: The only valid value is "CODE".

2.5 DACT TYPE

Description: This is a display only field which indicates the feature deactivation type.

Software Release: 5E16 and later
Default: CODE
Valid Entries: The only valid value is "CODE".

```
srfd                              5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5650)              SIMULTANEOUS RINGING FEATURE DEFINITION

*1. FEATURE NAME ________
 3. REMARKS      ________________________________

  FEATURE OPTIONS
    ACT TYPE  CODE
    DACT TYPE CODE
```

Figure 1 SAMPLE SRFD FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 31J: 5651 RECORD
SIMULTANEOUS RINGING MDN (MEMBER DIRECTORY NUMBER) LIST- SRDN

1. GENERAL

The 5651 Record is available with 5E16 and later Software Releases. It provides the ability to edit a list of MDNs (Member Directory Numbers) that are associated with a specific TN. A list of up to four MDNs is allowed. This form was added to support the Simultaneous Ringing feature. See Division 2, Section 4A587 for more information.

The Simultaneous Ringing feature is a secured feature and must be purchased before the SRDN form can be entered. ACT must be "Y" for SFID 587 on the SFSYS form.

1.1 Recent Change View

The corresponding Recent Change View for this form is 1.65.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *TN

Description: Telephone number.

Software Release: 5E16 and later
Valid Entries: Enter a 7 or 10 digit telephone number of the form XXXXXXX or NXXXXXXXXX, where N is a number from 2 to 9 and X is a number from 0 to 9.

Data Rules:

The TN must exist on a LINE form and must not be any of the following:

MLHG (Multiline Hunt Group) Member

Multi-party Line

Coin Phone

PSAP (Public Safety Answering Point)

Analog Attendant

Shared analog

Secondary only

ACD (Automatic Call Distributor) Agent

Series Completion Member

ISDN (Integrated Services Digital Network)

ACT must be "Y" for SFID 587 on the SFSYS form (Record 5713-1).

TN must equal TN on a LINEFA form (Records 5121, 5122, 5112, 5113, 5123, and 5124).

FEATURE must be defined in the FEATURE LIST on the LINEFA form.

2.3 * FEATURE

Description: This field identifies a particular Simultaneous Ringing feature by name.

Software Release: 5E16 and later
Valid Entries: Enter up to 8 alphanumeric characters. Feature name entries must be unique. Preconstructed features always begin with a slash (/).

Data Rules:

FEATURE must equal FEATURE NAME on an SRFD form (Record 5650).

MDN LIST

The MDN LIST allows up to four member directory numbers to be assigned to the specified TN.

2.4 MDN

Description: Member directory number.

Software Release: 5E16 and later
Valid Entries: Enter from up to 32 digits of 0 - 9, plus special characters "*" or "#".

```
srdn                              5ESS Switch
                          OFFICE DATA ADMINISTRATION
(5651)                   SIMULTANEOUS RINGING MDN LIST

*1. TN       __________
*2. FEATURE ________

            3. MDN LIST
ROW MDN
 1  ________________________________
 2  ________________________________
 3  ________________________________
 4  ________________________________
```

Figure 1 SAMPLE SRDN FORM 5E16 AND LATER SOFTWARE RELEASES

SEC. 32: ACD BRCS

SEC. 32A: 5631-1 RECORD
ACD/BRCS AND DAA TN ASSIGNMENT FORM - ACDTN

1. GENERAL

The 5631 Record is available with the 5E9(1) Software Release. It is used by the ACD/BRCS (Automatic Call Distributor/Business and Residential Custom Services) feature to define the ACD directory number or the DAA (Direct Agent Access) directory number. For more information on the secured feature ACD/BRCS and ACD/BRCS Interworking II see Division 2, Section 4A121.

ACD TN is a telephone number that gets standard queuing and delay treatment or vectoring treatment. This TN is dialed by a customer to be routed through an ACD to any agent. In addition the ACD TN calls can be interflowed. Interflow allows for immediate or permanent close down of one, some or all agent serving teams at a specific position. Call traffic requiring agent assistance that is otherwise handled by the closed serving teams is subsequently interflowed to another destination.

DAA TN is the telephone number that is associated with a specific agent ID. The calls are routed to that agent.

1.1 Provisioning ACD TN and DAA TN for 5E11 and Later

For 5E11 and later, the forms for provisioning an ACD TN or DAA TN are listed below. Before using the corresponding RC View to provision an ACD or DAA TN, it is necessary to set up required information for these TNs on other RC views. The order in which the ODA forms and Recent Change views are listed below must be the order that Recent Change follows for entering the necessary information prior to using the 6.10 view.

Provision ACD TN or DAA TN

Form	Record	RC View	Data
DAS	5300-1	9.1	Define a valid DAS (Digit Analysis Selector) with the Packet Switch indicator set to "N".
SMLDIT	5315	9.25	Distribute the LDIT associated with the DAS to all operational SMs in the office.
ICF	5305	10.3	Define a valid carrier ID specified in the PIC field.
RAR	5301	10.10	Define a valid screening index specified in the SCR field.
STPARM	5638	6.1	Define a valid ACD serving team.
AGNTID	5639	6.3	Define a valid ACD agent identifier specified in the AGENT ID field.
CQPARM	5640	6.4	Define a valid ACD call queue specified in the CALL QUEUE field.
SZDISP	5641	6.5	Define a valid display index specified in the DISPX field.
ACDVCT	5643	6.7	Define a valid vector identifier specified in the VECTOR ID field.

1.2 Recent Change View

The corresponding Recent Change View for this form is 6.10.

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 *TN

Description: Enter the ACD (Automatic Call Distributor) or DAA (Direct Agent Access) Telephone Number.

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:

ACD and DAA TNs are used for the secured feature ACD/BRCS. "Y" must be entered in the SFIDs 16 and 121 on the SFSYS form (5713-1 Record) for DAA TNs, and SFID 121 on the SFSYS form for ACD TNs.

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

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

ACD and DAA TNs may not appear as the series completed to TN on any form. Therefore, they may not be entered in the SERHLN field on the LINE (5109 Record), MLHLN (5111 Record), DSLUSR (5908 Record), or SHTN forms (5902 Record).

ACD TN must not be entered as the TN on the PIDEF form.

A NOC form (5501 Record) is required for the NXX of each TN on this form.

TN cannot be duplicated on any of the following forms:
- ACQS (5425 Record)
- AMLBDSL (5447 Record)
- DSL (5907 Record)
- DSLUSR (5908 Record)
- LINE (5109 Record)
- MLHG (5110 Record)
- MLHLN (5111 Record)
- MTNDR (5550 Record)
- MULTITN (5114 Record)
- NPOOL (5177 Record)
- PSMTN (5925/5925A Record)
- RDTAPORT (5911A/B Record)
- SHTN (5902 Record)
- XAT (5909-1/2 Record)

2.3 #CALL TYPE

Description: Enter a valid Call Type (queue number). This field identifies the call queue that handles calls for this ACD TN or DAA TN. DAA TNs are given queue treatment if the DAA agent is not logged in and FWD TO DN or VECTOR ID is not assigned. A CALL TYPE is always required since the TGID (Terminal Group) for this TN is obtained from the primary serving team of this call type queue. See CALL QUEUE field for 5E11 and later.

Software Release: 5E9(1) - 5E10
Required Field.
Valid Entries: 1 - 128

Data Rules:

This CALL TYPE must be defined on the OSPSCT form (5404 Record) with a matching OSPS CALL TYPE value and AUTO CALL DIST field must be "Y". Also, the SERVING TEAM value on the OSPSCT form must have TGID defined for the associated Serving Team on the STINFO form.

2.4 CALL QUEUE

Description: Enter the ACD (Automatic Call Distributor) call queue number. This field identifies the call queue that handles calls for this ACD TN or DAA TN. DAA TNs are given queue treatment if the DAA agent is not logged in and FWD TO DN or VECTOR ID is not assigned. An incoming ACD call is placed in a queue specified by this number if no agents are available to handle this type of call. The CQPARM form is used to define a valid ACD call queue to be entered in this field.

Software Release: 5E11 and later.
Valid Entries: 1 - 999

Data Rules:

If CALL QUEUE is not entered, then:
- E911 PSAP must be "N"
- Q DIALING TN must be "N"

The CALL QUEUE value must be defined on a corresponding CQPARM form with a matching SERVING TEAM entered. In addition, the SERVING TEAM value on the CQPARM form must be defined on a corresponding STPARM form with TGID entered.

2.5 #PIC

Description: Enter a valid Presubscribed inter-LATA carrier. This field is used for ACD TN and DAA TN call redirection.

Required Field.
Valid Entries: 0 - 9999

Data Rules:

This PIC must be defined on the ICF form with "D" entered in the FEAT GRP field on that form.

2.6 PTC

Description: Enter the presubscribed intra-LATA toll carrier. This field supports the ICLATA secured feature for ACD/BRCS. For more information on the ICLATA feature, see Division 2, Section 4A149. For more information on the ACD/BRCS features, see Division 2, Section 4A141.

Software Release: 5E11 and later.
Valid Entries: 0 - 9999

Data Rules:

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

The PTC value must be defined on an ICF form as CARRIER ID and the FEAT GRP field on that ICF form must be set to "D".

2.7 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 value must be defined on an ICF form as CARRIER ID with FEAT GRP equal to "D" .

2.8 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.

2.9 #SCR

Description: Enter a valid Screening Index for busy line verification. This field is used for routing and charging redirected ACD or DAA calls.

Required Field.
Valid Entries: 1 - 4095

Data Rules:

There must be an RAR form entry with this screen index and code index combination. The code index is obtained from the LDIT form and the DAS value below.

2.10 #DAS

Description: Enter a valid Digit Analysis Selector. This field is used for digit analysis of redirected ACD and DAA calls.

Required Field.
Valid Entries:

For 5E14 and earlier: 1 - 99
For 5E15 and later: 1 - 254

Data Rules:

The DAS assigned on this form must be defined on the DAS form (5300 Record).

Also , the LDIT value associated with this DAS (either LINE DAS LOCAL DIT or TRUNK DAS LOCAL DIT) must be distributed to all operational SMs. This is accomplished by entering an SMLDIT form with this LDIT value as the key and by entering each operational SM (as defined on EQIM forms where EQSTATUS is "O") into the LIST OF SWITCHING MODULES.

The DAS values entered on the ACDTN form cannot be associated with an LDIT used for packet routing. Therefore, "PSNCI" or "PSCAR" cannot be entered in the TYPE OF CI CALL field on an LDIT form or an MLDIT form if the LDIT value is associated with this DAS (either LINE DAS LOCAL DIT or TRUNK DAS LOCAL DIT); also, the the CI TYPE entries in the CONFLICT RESOLUTION ENTRIES cannot be equal a "PSNCI" or "PSCAR" on the corresponding LDIT form.

Entries in the DAS and SCR fields on this form require that a DAS form must exist with a DATREE that matches the DAS value, and a corresponding RAR form which requires the combinations of CODE INDEX from one or more LDIT, RDIT, PDIT, IDDD, INDIT, or MLDIT forms, and SCR on this form.

2.11 RAX

Description: This field is used for routing and charging redirected ACD calls.

Software Release: 5E16(2) FR 5 and later
Valid Entries: Blank or 0 for no RAX, or 1 - 999

2.12 CODE RESTRICT

Description: This field is used for routing and charging redirected ACD calls.

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

2.13 #DISPX

Description: Enter a valid Display Index. This field identifies the display index for calls to this ACD/DAA TN.

Required Field.
Valid Entries:
For 5E9(1) - 5E10: 1 - 276
For 5E11 and later: 1 - 2047

Data Rules:

For 5E9(1) - 5E10, the DISPX value must   match a DISPLAY INDEX value on the OBSTS form (5408 Record).

For 5E11 and later, DISPX value(s) must match the DISPX value on the SZDISP form (5641 Record).

2.14 LINE SCREEN

Description: Is Toll diversion, code restriction, or WATS band screening activated? This field is used for

ACD/DAA call redirection. See the C BLK attribute on the RAR form (5301 Record), Division 3, Section 3F, and the LINE SCREENING attribute on the LCC form (5306 Record) in Division 3, Section 3S for additional information.

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

2.15 VECTOR ID

Description: Enter a valid Vector ID. This field identifies the vector which provides call handling while waiting for an ACD/DAA agent.
Valid Entries:
For 5E9(2) and earlier: 1 - 256
For 5E10: 1 - 1024
For 5E11 and later: 1 - 2048

Data Rules:

For 5E9(1) - 5E10, the VECTOR ID entered here must be defined on a CVECT form (5460 Record).

For 5E11 and later, if VECTOR ID is entered, it must be defined on the ACDVCT form (5643 Record).

2.16 Q DIALING TN

Description: Is the ACD TN associated with the CALL QUEUE used for Queue Dialing? A value of "N" means that the ACD TN or DAA TN will not be used for Queue Dialing. When Q DIALING TN is "Y", the ACD TN or DAA TN may be accessed by the queue number indicated in the CALL TYPE field.

For 5E11 and later, if this field is set to "Y" on the Recent Change View, then the TN is displayed on the Call Queue RC View 6.4 as the queue TN for the CALL QUEUE. When a TN with Q DIALING TN is set to "Y" is deleted, then the verify only field ACD TN on RC View 6.4 will be blank for that queue.

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

Data Rules:

For 5E9(1) - 5E10, only one TN per unique CALL TYPE may have Q DIALING TN set to "Y".

For 5E11 and later, only one TN per unique CALL QUEUE may have Q DIALING TN set to "Y".

2.17 INWATS

Description: Is INWATS (Inward Wide Area Telecommunications Service) is allowed?

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

2.18 FLS

Description: Are calls to this ACD TN or DAA TN free? A value of "Y" entered in FLS (Free Line Service) indicates that calls to this ACD TN or DAA TN are not billed. A value of "N" means that calls to this ACD TN or DAA TN get standard billing treatment.

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

2.19 CALL TRACE

Description: Will Call Tracing be activated? When CALL TRACE is "Y", all incoming calls to the ACD TN or DAA TN are traced and a record is typed on the Maintenance TTY.

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

2.20 CALL CLASS

Description: This field is used by the MIS (Management Information System) to track ACD/DAA calls. Enter a valid CALL CLASS.
Valid Entries:
  For 5E9(1) - 5E10: 1 - 511
  For 5E11 and later: 1 - 2048

Data Rules:

For 5E11 and later, if CALL CLASS is entered, CALL QUEUE and DISPX must be entered.

2.21 CPND TO MIS

Description: Are calling numbers for calls to this ACD/DAA TN sent to the MIS?

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

2.22 CPND TO AGENT

Description: Are calling numbers displayed on the agent's terminal?

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

2.23 CHNG TN

Description: This is a recent change only field that allows the user to update or insert a value for TN, which is the key field for this view. The update and insert operations are not allowed for key fields; however, the TN field can be changed through this field. This is a Text Only field for ODA. For 5E9(1) - 5E10 see Recent

Change view 4.15. For 5E11 and later, see Recent Change View 6.10.

2.24 E911 PSAP

Description: Is this an ACD E911 Public Safety Answering Point? This field is used by the Pinnacle ACD E911 Special Feature.

Software Release: 5E9(1) and later
Required Field.
Default: N
Valid Entries: Y, N

Data Rules:

To activate this secured feature, the ACT field for SFID 143 on the SFSYS form (5713-1 Record) must be "Y".

For 5E9(1) - 5E10, the value entered for E911 PSAP must equal the value entered for E911 PSAP on the STINFO form.

For 5E11 and later:
If CALL QUEUE is defined as a CALL QUEUE on the CQPARM form with SERVING TEAM entered and this SERVING TEAM is defined on the STPARM form as SERVING TEAM, then the value entered for E911 PSAP on this form must equal the value entered for E911 PSAP on the STPARM form.

If CALL QUEUE is entered and E911 PSAP is set to "Y", then the CALL QUEUE must be defined on the CQPARM form with an entry in the SERVING TEAM field.

DIRECT AGENT ACCESS

The following fields (Section 2.25 - Section 2.26) define attributes for a DAA TN.

2.25 AGENT ID

Description: This field identifies the agent associated with this Direct Agent Access TN. An entry in the AGENT ID field identifies this TN as a DAA DN. Enter one to four digits.

For 5E9(1) - 5E10, leading zeros have significance, i.e., 01 is different from 1.
Valid Entries:
    For 5E9(1) - 5E10: 1 - 8999
    For 5E11 and later: 1 - 32768

Data Rules:

An entry in the AGENT ID field identifies this TN as a DAA DN, therefore, SFIDs 16 and 121 must be "Y" on the SFSYS form.

When AGENT ID is blank, FWD TO DN must be blank.

For 5E9(1) - 5E10, the AGENT ID entered here must be defined as an OPERATOR ID on an OSPSOA form with an OPER TYPE of "DA".

For 5E11 and later, an AGENT ID must be defined on a corresponding AGNTID form (5639 Record).

2.26 FWD TO DN

Description: When the corresponding agent is not logged in, calls terminating to DAA TN will be forwarded to the telephone number entered in this field.
Valid Entries:
For 5E9(1) - 5E10: 7 or 10 digits
For 5E11 and later: 1 - 15 digits

Data Rules:

FWD TO DN must not be entered unless there is an entry in AGENT ID.

For 5E9(1) - 5E10, FWD TO DN must not equal the entry in the TN field; digits 4-10 cannot be equal to the TN.

For 5E9(1) and later, the first three digits of the FWD TO DN must not equal an NPA CODE on the corresponding NOC form.

INTERFLOW

The following field assigns the destination directory number for interflowed calls.

2.27 DEST DN

Description: Enter the destination telephone number for ACD Interflowed calls. Interflow allows for immediate or permanent close down of one, some, or all agent serving teams at a specific location. Call traffic requiring agent assistance that is otherwise handled by the closed serving teams is subsequently interflowed to another call center.
Valid Entries:
For 5E9(1) - 5E10: 7 or 10 digits
For 5E11 and later: 1 - 15 digits

Data Rules:

DEST DN cannot equal the entry in the TN field; digits 4-10 cannot be equal to the TN.

For 5E9(1) and later, the first three digits of the DEST DN must not equal the NPA CODE on the corresponding NOC form.

When DEST DN is entered, AGENT ID and FWD TO DN must not be entered.

```
acdtn                             5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5631-1)                 ACD/BRCS AND DAA TN ASSIGNMENT

*1. TN               __________    13. INWATS        N
 2. CALL QUEUE       ___           14. FLS           N
#3. PIC              ____          15. CALL TRACE    N
 4. PTC              ____          16. CALL CLASS    ____
```

```
 5. PLC          ____          17. CPND TO MIS   N
 6. UNBUNDLED    N             18. CPND TO AGENT N
#7. SCR          ____              CHNGTN        __________
#8. DAS          __            20. E911 PSAP     N
 9. DISPX        ____
10. LINE SCREEN  N                  DIRECT AGENT ACCESS
11. VECTOR ID    ____          21. AGENT ID  _____
12. Q DIALING TN N             22. FWD TO DN _______________
```

```
acdtn                             5ESS Switch
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5631-1)                ACD/BRCS AND DAA TN ASSIGNMENT

         INTERFLOW
23. DEST DN _______________
```

Figure 1 SAMPLE ACDTN FORM 5E12 - 5E14 SOFTWARE RELEASES

```
acdtn                             5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5631)                  ACD/BRCS AND DAA TN ASSIGNMENT

*1. TN           __________    13. INWATS        N
 2. CALL QUEUE   ___           14. FLS           N
#3. PIC          ____          15. CALL TRACE    N
 4. PTC          ____          16. CALL CLASS    ____
 5. PLC          ____          17. CPND TO MIS   N
 6. UNBUNDLED    N             18. CPND TO AGENT N
#7. SCR          ____              CHNGTN        __________
#8. DAS          ___           20. E911 PSAP     N
 9. DISPX        ____
10. LINE SCREEN  N                  DIRECT AGENT ACCESS
11. VECTOR ID    ____          21. AGENT ID  _____
12. Q DIALING TN N             22. FWD TO DN _______________
```

```
acdtn                             5ESS Switch            _
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5631)                  ACD/BRCS AND DAA TN ASSIGNMENT

         INTERFLOW
23. DEST DN _______________
```

Figure 2 SAMPLE ACDTN FORM 5E15 SOFTWARE RELEASE

```
acdtn                             5ESS Switch
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5631)                  ACD/BRCS AND DAA TN ASSIGNMENT

*1. TN            __________  13. VECTOR ID     ____        DIRECT AGENT ACCESS
 2. CALL QUEUE    ___         14. Q DIALING TN  N           23. AGENT ID _____
#3. PIC           ____        15. INWATS        N
 4. PTC           ____        16. FLS           N
 5. PLC           ____        17. CALL TRACE    N
 6. UNBUNDLED     N           18. CALL CLASS    ____
#7. SCR           ____        19. CPND TO MIS   N
#8. DAS           ___         20. CPND TO AGENT N
 9. RAX           ___             CHNGTN        __________
10. CODE RESTRICT ___         22. E911 PSAP     N
11. DISPX         ____
12. LINE SCREEN   N
```

```
acdtn                             5ESS Switch
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5631)                  ACD/BRCS AND DAA TN ASSIGNMENT

24. FWD TO DN _______________
         INTERFLOW
25. DEST DN _______________
```

Figure 3 SAMPLE ACDTN FORM 5E16(2) AND LATER SOFTWARE RELEASES

SEC. 32B: 5637 RECORD
ACD MANAGEMENT INFORMATION SYSTEM LINK - MISLINK

1. GENERAL

The 5637 Record is available with 5E9(1) and later Software Releases. It is used to make MIS LINK assignments, providing the capability to provision an MIS (Management Information System) SM Event Link for ACD/BRCS on all valid DSLs. For more information on ACD/BRCS see Division 2, Section 4A121. Note that as additional OE (Office Equipment) types are supported, additional time slot and related data rules are implemented. See the specific OE type for additional rules.

1.1 Time Slots

The following discussion of time slots is intended to illustrate the general rules for time slot assignment. In this discussion, ISLU and IDCU equipment are referenced. For rules pertaining to subsequent OE types, see the OE field.

ODA assigns time slot values to the MISLINK forms that have unassigned time slots. The ODA assignment requires that LKCENs ("K" type Equipment Numbers) assigned to LGs 0 - 7 (the sixth and seventh digit of the Equipment Number) are assigned time slots on odd numbered EQISLU PIDBs and that LCKENs assigned to LGs 8 - 15 are assigned time slots on even numbered EQISLU PIDBs, each with a PIDB TYPE of "PSU".

D and/or B Channel time slots cannot be assigned by ODA unless a sufficient number of DPIDBs are assigned on the EQISLU form (5731 Record) with a PIDB TYPE of "PSU" time slots. If the number of time slots available is 0, there are no DPIDB assignments on the EQISLU form for the combination of SM/ISLU2. Or, for example, if the number of time slots available is 4 and the number of time slots assigned is 5 then the data must be examined to determine why more than the available number of time slots have been assigned. Error correction may require regrouping ISCN assignments more efficiently or possibly the DPIDB assignments on the EQISLU form may need modification. B and/or D channel assignments made manually may conflict with the ODA assignment algorithm.

The ODA algorithm is allocated 4 time slots per DPIDB per SM/ISLU2/LG. The LGs 00 - 07 are allocated time slots on the odd numbered DPIDBs while LGs 08 - 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 use one or more time slots. These manual assignments diminish (and may conflict with) the time slots available for the ODA assignment algorithm.

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 timeslots due to manual (vs ODA) time slot assignments. Each SM/ISLU or SM/IDCU DPIDB time slot may be assigned only once. (Note, D channels are allocated to quarter time slots; therefore up to four unique assignments can be made before a time slot is considered full.

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. Time slots 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

Time slots are allocated either on the form or by the ODA automatic time slot assignment algorithm. Time slots may also be reserved for On Demand B channel usage on the ODBTS form. If more than 32 time slots are assigned or reserved, time slots on the ODBTS form will need to be re-assigned to correct the DPIDBs in error.

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 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,
are assigned to the same DPIDB and
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 can not be switched. The required number of DPIDB time slots must be available for the following forms:

DSL
MISLINK
ODBTS
RTERM

The following data rule is not executed on an SM-2000, provisioning of nailed-up time slots is not required on an SM-2000. On a PSU1, each Data Interface in a SM can have a maximum of 128 nailed-up time slots reserved for the following applications:

Data Interface for Nailed-up Time Slots

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).

1.2 Recent Change View

For 5E9(1) - 5E10, the corresponding Recent Change View for this form is 23.19. For 5E11 and later, the corresponding Recent Change View for this form is 6.11.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 *OE

Description: Enter the OE (DSL) equipment number (a composite of the equipment type and number).

Required Field.

Valid OE Type Entries

Entry	Definition
A	Software Release: 5E12 and later. INEN - TR-303 on DNU-S.
E	Software Release: 5E12 and later. AIUEN - AIU (Access Interface Unit) ISDN U-Interface).
G	Software Release: 5E9(1) and later. GEN - GAMA IDCU (Integrated Digital Carrier Unit).
I	Software Release: 5E9(1) and later. ISDN Digital (U & T Card) - ISLU (Integrated Services Line Unit).
K	Software Release: 5E10 and later. LCKEN - ISDN ISLU2.
M	Software Release: 5E9(1) - 5E9(2). MEN - IDCU (Integrated Digital Carrier Unit).

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

TR-303 on DNU-S, Type A

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

If OE is "E", the AIUEN Equipment Number consists of the following:

AIU ISDN U-Interface, Type E

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

If OE is "G", the GEN Equipment Number consists of the following:

IDCU, Type G

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

If OE is "I", the LCEN Equipment Number consists of the following:

ISLU, Type I

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

If OE is "K", the LCKEN Equipment Number consists of the following:

ISLU2 , Type K

Equipment		Format	Valid Entries
Switching Module	SM	XXX	1-192
Integrated Services Line Unit	ISLU2	XX	00 - 42
Line Group	LG	XX	00 - 15
Line Board	LBD	X	0 - 7
Line Circuit	LCKT	XX	00 - 07

Data Rules:
OE TYPE:

A:
If OE is type "A",

- DNU-S DSLs defined on the DSL or MISLINK form which have the same identical entries for the first four digits of the OE (SM,DNUS) and which also have the same DS1 and DS1 TS entries, must also have the same RT (OE[5,6]) and SHELF/CHL GRP (also defined as the first through third digits of the D ISCN) entries.
- D and/or B Channels cannot be assigned to conflicting DS1 time slots or quarter time slots due to manual (vs system) time slot assignments among the DSL, MISLINK, or NAILUP forms.

E:
If OE is type "E",

- DPIDB must be 1 - 5.
- the AIU must be defined on the EQAIUP form with an equipage status of "O" and a type of "AIULP" or "AIURPLP".
- an EQAIU form must be defined with a matching TSGRP NO whose PSU SHLF matches the first digit of the SHELF on the MISLINK form.

G:
If OE is type "G", DPIDB must be 12 - 22.

For the following forms:
DSL
LINE
MISLINK
MLHLN

TRUNK

- Originating Equipment Numbers cannot be duplicated on thefor the IDCU (Integrated Digital Carrier Unit) equipment.
- OE ports which have SM/IDCU/RT values (the OE NUMBER[1,7]), then they must correspond to the SM/UNIT NUMBER/RT EX values assigned on an RTERM form (5174 Record). In addition, the DSL, DSLUSR, and MISLINK OE ports must be located on equipment identified 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".)
  - All IDCU MISLINKs that have "TR303" remote terminals assigned are prohibited from using the "303ZCS" suppression method, i.e., the SUP MTHD on the RTERM form can not be "303ZC".

If OE type is "G":

- each ISCN or SHELF/CHL GRP/CHL combination must have a proper Packet Switching Unit shelf assigned on the EQIDCU form (5846 Record). The PSU shelf specified by the entry in the SHELF field must be defined on the EQIDCU form with a PIDB TYPE of "PSU".
- on IDCU equipment, when packing QTR TS on an MISLINK form (up to 4 QTR TSs to a TS) on an SM/IDCU/RT (OE NUMBER[1,7])
  - the set of DPIDB, TIMESLOT, DS1 and DS1 TS must each be identical, i.e., DS1 = DS1, etc.).
  - the fields SHELF and CHL GRP (concatenated) must also be the same on all the MISLINK forms in the group. If the DPIDB/TIMESLOT combination is the same on any forms, the DS1/DS1 TS combinations must also be the same across those MISLINK forms.
  - (with known D channel assignments) the assigned QTR TS andthe CHL must be unique across the identical set of forms.

I:
If OE is type "I",
- DPIDB must be 2 - 11
- DS1 and DS1 TS cannot be entered

An OE type of "I" must be defined as an equipped and operational U or T card on the ISLULC form (5942 Record).

For OEs with an OE TYPE of "I" which are assigned a Protocol Handler on the EQPSU form, it is recommended that those equipped in a given SLG (Sub Line Group), belong to the same DSL group (first three digits of ISCN which is a combination of SHELF, CHLGRP, and CHL). An SLG is a set of 4 (R)ISLU LCs (Line Cards) assigned to the same LGC (Line Group Controller). The LCs are (0,2,4,6) or (8,10,12,14) or (16,18,20,22) or (24,26,28,30).

K:
If OE type is "K",

- the assigned TIMESLOT may not be equal to the LG part of the OE or the LG part plus 16.
- DS1 and DS1 TS cannot be entered.
- DPIDB must be 2 - 11.
- Equipment Numbers with OE type of "K" must be defined as an equipped and operational U or T Board on the ISLULB form (5952 Record).

OE NUMBER:

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"

ACD data links assigned to the same SM must be assigned to different line group controllers.

The OE must be defined on the ISLULC (5942 Record) with an equipage state of Operational and a card type of "PULC", "ULC", or "TLC".

The following form(s) cannot have duplicate Line Card or Line Board assignments:
DSL - OE
DSLAP - LCEN
MISLINK - OE
OSPSDSL - LCEN/MATE LCEN
RDTAPORT - OE

The following combination of fields
OE
DATA LINK GRP
DATA LINK NBR

must be unique on MISLINK input forms.

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 corresponding DSL form	by 2 for each DSLUSR form where DPKT TN or DPKT MLHG/TERM is entered.
			by 1 for each DSLUSR form where DPKT TN and DPKT MLHG/TERM are blank.
		ODB ISCN1[1,3] 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 where 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]	1 for each unique TRUNK form.
XAT	DEN[1,3]	ISCN[1,3]	by 1 for each unique XAT 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 entered between 0 - 7, the time slots are assigned to odd numbered PSU PIDBs and
- for LGs entered between 8 - 15, the time slots are assigned to even numbered PSU PIDBs (PIDBs are assigned on the EQISLU form).

A SLG (Sub Line Group) is a group of no more than 4 LC (Line Cards) per LGC (Line Group Controller). It is recommended that for every (R)ISLU, SLGs be installed in the following order as growth occurs:

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

No more than three MISLINK forms can be assigned to a single SM.

For each set of MISLINK forms having equipment numbers with the same SM (first 3 digits of the OE), the set of DATA LINK NBR values must be consecutive starting from 0.

All of the DSLs -
IDCU DSLs defined on
DSL
MISLINK
and ISLU/ISLU2 DSLs as defined on

DSL
DSLAP
MISLINK
OSPSDSL

on an SM which have identical entries for the first five digits of the OE for ISLU2 or IDCU or first four digits for ISLU; and which also have the same D REL PIDB and D TIMESLOT entries; must, additionally, have the same

RT for IDCU
OE[5,6] for ISLU
LGC for ISLU2

and SHELF/CHL GRP (also defined as the first through third digits of the [D] ISDN) entries.

For the following applications:

Time Slots 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/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	Defined by setting TRKCLS equal to "SPCHNDLR" on the TKGRP form and defining members on TRUNK forms.
X.25	Defined on the XAT form.
X75	Defined by setting TRKCLS equal to "X75" on the TKGRP form and defining members on TRUNK forms.
X75P	Defined by setting TRKCLS equal to "X75P" on the TKGRP form and defining members on TRUNK forms.

The following data rule is not executed on an SM-2000, because provisioning of nailed-up time slots is not required on an SM-2000.

- For the above applications (except the RPA application), each Data Interface in an SM can have a maximum for 256 nailed-up time slots for a PSU2 or a maximum of 128 nailed-up time slots for a PSU1.

  These time slots can be reserved by setting rows RPTSS0 - RPTSS7 to 1 on the EQPSU form (5741 Record). The quantity of time slots reserved (i.e. the number of entries set to 1) must be greater than or equal to the quantity of time slots assigned for the above applications. Note that a D channel only takes a quarter of a time slot.

  Also, the reserved time slots must be entered such that for any given SHELF the time slots assigned for a SHELF may be duplicated in the same vertical (column) position only as many times as the SHELF has

PIDBs assigned. For example, if SHELF 1 has 2 DI0 PIDBs assigned in the PIDB field, then a given vertical position (0-31) in the DI0 PSU TSIU TIMESLOTs field (RPTSS0 - RPTSS7) may not be used more than twice for that shelf.

- Each Switching Module can have up to 5 PSU SHELFs. On the EQIM form, when UNIT TYPE is not "SM2000" each PSU SHELF can be assigned up to (32 times X) time slots for the above table of applications. (Note: X represents the number of PIDBs, 0 to 4, provisioned per shelf.)

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.

2.3 # SERVCLASS

Description: Enter the service class applied to the digital subscriber line specified in the OE (OE for LCENs) field. For this form the only service class supported is "MISLNK" for the Management Information System Link.

Required Field.
Default: MISLNK
Valid Entries: MISLNK

Data Rules:

If "MISLNK" is entered, then CONFIGURATION on the corresponding EQIM form must have a value which supports this SERVICE CLASS value shown in the table for Configurations for Facilities and Applications. (SM on the EQIM form matches the first 3 digits of the OE on the MISLINK form).

2.4 # SHELF

Description: Enter the PSU shelf number where the protocol handler that services the line is located.

Required Field.
Valid Entries: 0 - 4

Data Rules:

Each SM can have up to 5 PSU Shelfs.
Each Shelf can have up to 16 PH (Protocol Handlers).
Each PH can be assigned up to 32 time slots.
On Demand B Channel, Packet B Channel, Packet D Channel, EDSL, IFOPER, and IFTERM on PHs can be assigned on the following forms:

AMLBDSL
DSL
DSLAP
DSLUSR
MISLINK
OSPSDSL
RTERM
TRUNK
XAT

The combination of SM (OE NUMBER[1,3]), SHELF, and CHL GRP must be entered on the PSUGP form

(5949 Record).

An ISCN (Integrated Services Channel Number) is the combination of SHELF, CHL GRP, and CHL. ISCNs require a PIDB with a PIDB TYPE of "PSU" assigned on the same Packet Switching Unit shelf on the EQISLU form as the PSU shelf specified by the entry in the SHELF field.

Each ISCN entry must have the SHELF value assigned on an EQPSUPH form (5742 Record) on the same SWITCHING MODULE and having a matching PSU SHELF.

The ISCN must be a unique value within an SM. ISCNs cannot be duplicated on one or more of the following forms:

AMLBDSL
CCLNK
DSL
DSLAP
DSLUSR
MDLNK
MISLINK
ODBRES
OSPSDSL
PSISM
RTERM
TRUNK
XAT.

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
MISLINK
DSLUSR
ODBRES
OSPSDSL
RTERM
XAT

with all TRUNK forms which have a TRKCLS of:

- "EDSL"
- "IFTERM"
- "IFOPER"

However, they can not have an ISCN SHELF and CHL GRP which are mixed with Protocol Handler assignments from PSISM forms, PSULNK forms, or TRUNK forms which have a TRKCLS of

"PACKET"
"PKTPIPE"
"SPCHNDLR"
"X75"
"X75P"

A maximum of 128 ALCBs (Access Link Control Blocks) can 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 5E11 and later, the following data rules apply for the Automatic ISDN Line Assignment feature (For more information on this feature, see Division 2, Section 1BO).

SHELF, CHL GRP and CHL must all be entered for the existing form tuple in Large Terminal Growth. Former data rules still apply to the existing form tuples in Large Terminal growth.

When SHELF, CHL GRP or CHL is entered, all must be entered.

When SHELF is not entered, DPIDB, TIMESLOT, QTR TS, DS1 and DS1 TS must not be entered.

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must not be entered when ACT on FOSYS form (5713-2 Record), where FID is 695, is set to "Y".

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must be entered when ACT on FOSYS form, where FID is 695, is set to "N".

2.5 # CHL GRP

Description: Enter the PSU channel group number of the protocol handler on the PSU shelf.

Required Field.
Valid Entries: 0 - 15

Data Rules:

The ISCN (Integrated Services Channel Number), which consists of the SHELF, CHL GRP and CHL, must exist in the same loaded SM as specified by the OE NUMBER[1,3] on this form.

For 5E11 and later, the following data rules apply for the Automatic ISDN Line Assignment feature (For more information on this feature, see Division 2, Section 1BO).

SHELF, CHL GRP and CHL must all be entered for the existing form tuple in Large Terminal Growth. Former data rules still apply to the existing form tuples in Large Terminal growth.

When SHELF, CHL GRP or CHL is entered, all must be entered.

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must not be entered when ACT on FOSYS form (5713-2 Record), where FID is 695, is set to "Y".

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must be entered when ACT on FOSYS form, where FID is 695, is set to "N".

2.6 # CHL

Description: Enter the PSU channel member number of the PH (Protocol Handler) on the PSU shelf.

Required Field.
Valid Entries: 0 - 127

Valid CHL Entries per PH

Entry	PH
0 - 3	PH16
6 - 9	PH16
12 - 15	PH16
0 - 127	PH128

Data Rules:

For 5E11 and later, the following data rules apply for the Automatic ISDN Line Assignment feature (For more information on this feature, see Division 2, Section 1BO).

SHELF, CHL GRP and CHL must all be entered for the existing form tuple in Large Terminal Growth. Former data rules still apply to the existing form tuples in Large Terminal growth.

When SHELF, CHL GRP or CHL is entered, all must be entered.

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must not be entered when ACT on FOSYS form (5713-2 Record), where FID is 695, is set to "Y".

For a given SM, the SHELF, CHL GRP and CHL fields on a MISLINK form must be entered when ACT on FOSYS form, where FID is 695, is set to "N".

2.7 FWCLI

Description: Enter the FW CLI (Firmware Change Level Indicator) of the digital line being serviced.
Default: 0
Valid Entries: 0

2.8 DPIDB

Description: Enter the DPIB (Directly Connected Peripheral Interface Data Bus) number for ISLU(2) or IDCU SG 0. This data bus is the vehicle that links the D-channel of the DSL, resident on an ISLU(2) or IDCU in an SM, to the SM's peripheral PSU (Packet Switching Unit).

> ***NOTE:*** The field must be non-zero for DSLs on an ISLU(2) or IDCU but must be zero for DSLs on a RISLU. If the field is left blank the DPIDB value will be chosen by the system.

Valid DPIDB Entries

Entry	Definition
1 - 5	AIU ISDN U-Interface.

2 - 11	ISLU(2); "I" or "K".
12 - 22	IDCU; "G".

Data Rules:

Manually assigned DPIDBs require an EQISLU form with a matching PIDB whose PSU SHELF matches the SHELF entry on this form.

The DPIDB must be previously grown in as a DPIDB before it can be used. For ISLU, the DPIDB is grown using the EQISLU form (5731 Record, RC view 22.5); for IDCU, the DPIDB is grown using the EQIDCU form (5846 Record, RC view 19.12).

DPIDBs must have a corresponding PIDB with a PIDB TYPE of "PSU" assigned on the EQISLU form (5731 Record).

A RISLU does not have a DPIDB. Therefore, DPIDB cannot be entered for an OE which is resident on a RISLU (as opposed to an EQISLU defined ISLU), and which is defined on an EQRISLU input form.

Manually assigned DPIDBs with an OE type of "G", must have the proper PSU Shelf assigned with a matching PIDB NO. on an EQIDCU form (5846 Record). The PSU Shelf number, specified by the SHELF entry, must be defined as DI/PSU SHELF on the matching EQIDCU form and the PIDB TYPE on the EQIDCU form must be "PSU".

2.9 TIMESLOT

Description: Enter a time slot on the DPIDB (Directly Connected Peripheral Interface Data Bus) to carry signals for the D-channel between the ISLU(2) (Integrated Service Line Unit(2) or the IDCU (Integrated Digital Carrier Unit) and a PSU (Packet Switch Unit). If this field is not entered, an available time slot will be automatically assigned. (See also time slot information under the "Time Slot" heading in the "GENERAL" section.)
Valid Entries: Blank (computed automatically), or 0 - 31

Data Rules:

The assigned TIMESLOT is either equal to the LGC part of the DSL OE or the LGC plus 16.

If DS1, DS1 TS or TIMESLOT is entered, all must be entered.

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

Time slots for a given combination of SM, ISLU(2) or IDCU, and PIDB, may not be duplicated for other DSLs.

DSL lines cannot be assigned duplicate time slots on the following forms:

DSL
MISLINK
RTERM

If the OE defined on a MISLINK form is associated with an EQRISLU form, the TIMESLOT information must not be assigned.

2.10 QTR TS

Description: Enter the D-channel Quarter Time Slot number. All quarter time slots in a time slot must be assigned (if possible) to a time slot before another time slot is used. If this field is not entered, an available

QTR TS will be automatically assigned.
Valid Entries: 0 - 3

Data Rules:

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

The quarter time slot may not be duplicated for the same combination of SM, ISLU or IDCU, DPIDB, and TS for another DSL.

The digital subscriber lines must be assigned on local ISLU(2)s, if QTR TS have been assigned.

2.11 # LVL2 PROF

Description: Enter the Level 2 profile. However, for an MIS (Management Information System), this field is used to indicate packet switching. Since packet switching is not yet supported for MIS Links, the only valid value is "DASC" to indicate "no packet switching".

Required Field.
Default: DASC
Valid Entries: DASC

2.12 DS1

Description: Enter the data facility which connects an RT (Remote Terminal) to an IDCU (Integrated Digital Carrier Unit). This field is not used for ISLU(2)s.
Valid Entries: 1 - 28

Data Rules:

If DS1, DS1 TS, or TIMESLOT are entered, all must be entered.

If DS1 or DS1 TS are entered, the following must be entered:

DPIDB
DS1
DS1 TS
QTR TS
TIMESLOT

If 1 is entered, DS1 TS cannot be 11 or 23.

The DS1 for a given IDCU RT is assigned by the RTERM form (5174 Record RC view 18.15). On the RTERM form the RT DS1 is connected to an FAC (IDCU Facility) where IFAC is a DS1 number viewed from the IDCU point of view (0 - 39), instead of a DS1 number viewed from the remote terminal point of view (1 - 28). On the RTERM form, the RT DS1 number is called RT Terminal number (RT TERM). If the DS1 is not assigned to an IFAC, no time slot on this DS1 can be assigned to a DSL.

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

2.13 DS1 TS

Description: Enter the D channel DS1 time slot number on the DS1 data channel which connects an RT (Remote Terminal) and an IDCU (Integrated Digital Carrier Unit). 24 time slots are available. This field is used to assign one time slot to the D channel for circuit switching or D channel packet switch user. This field is not used for ISLU(2)s.

NOTE: Time Slot 11 and 23 on the number 1 DS1 of a remote terminal is reserved for the IDCU EOC (Embedded Operation Channel) and TMC (Time-slot Management Channel).

Valid Entries: 0 - 23

Data Rules:

If DS1, DS1 TS, or TIMESLOT is entered, all must be entered.

IDCU remote terminal ports cannot be assigned duplicate IFAC (DS1) time slots on the following forms:

DSL
MISLINK
NAILUP
RTERM

ISDN applications (DSL and MISLINK form) are not allowed when ZCS signaling is used.

EXTERNAL DATA LINK

The following fields (Section 2.14 - Section 2.15) define the external data links.

2.14 # DATA LINK GRP

Description: Enter the data link identification number.
Valid Entries: 1 - 999

Data Rules:

For 5E9(1) - 5E9(2), for each set of MISLINK forms having the same DATA LINK GRP, the set of DATA LINK NBR values must be consecutive starting from 0.

2.15 # DATA LINK NBR

Description: Enter the relative data link number.
Valid Entries: 0 - 2

Data Rules:

For a given SM, the following SHELF, CHL GRP and CHL fields on a MISLINK form must not be entered when ACT on FOSYS form, where FID is 695, is set to "Y" (AILA feature active).

```
mislink                          5ESS SWITCH
                         OFFICE DATA ADMINISTRATION
(5637)                            MIS LINK

 *1. OE         _ ___________         EXTERNAL DATA LINK
 #4. SERVCLASS MISLNK            #15. DATA LINK GRP ____
```

```
 #5. SHELF      _                #16. DATA LINK NBR ____
 #6. CHL GRP    __
 #7. CHL        ___
  8. FWCLI      000000000
  9. DPIDB      __
 10. TIMESLOT   __
 11. QTR TS     _
#12. LVL2 PROF DASC
 13. DS1        __
 14. DS1 TS     __
```

Figure 1 SAMPLE MISLINK FORM 5E9(1) - 5E10 SOFTWARE RELEASES

```
mislink                                 5ESS SWITCH
                                OFFICE DATA ADMINISTRATION
(5637)                    ACD MANAGEMENT INFORMATION SYSTEM LINK

 *1. OE         _ ___________       EXTERNAL DATA LINK
 #4. SERVCLASS MISLNK            #15. DATA LINK GRP ____
  5. SHELF      _                #16. DATA LINK NBR ____
  6. CHL GRP    __
  7. CHL        ___
  8. FWCLI      000000000
  9. DPIDB      __
 10. TIMESLOT   __
 11. QTR TS     _
#12. LVL2 PROF DASC
 13. DS1        __
 14. DS1 TS     __
```

Figure 2 SAMPLE MISLINK FORM 5E11 SOFTWARE RELEASE

```
mislink                                 5ESS Switch
                                OFFICE DATA ADMINISTRATION
                          ACD MANAGEMENT INFORMATION SYSTEM LINK

*1. OE         _ ___________       EXTERNAL DATA LINK
 4. SERVCLASS MISLNK            #15. DATA LINK GRP ____
 5. SHELF      _                #16. DATA LINK NBR ____
 6. CHL GRP    __
 7. CHL        ___
 8. FWCLI      000000000
 9. DPIDB      __
10. TIMESLOT   __
11. QTR TS     _
12. LVL2 PROF DASC
13. DS1        __
14. DS1 TS     __
```

Figure 3 SAMPLE MISLINK FORM 5E12 AND LATER SOFTWARE RELEASES

SEC. 32C: 5638 RECORD
ACD SERVING TEAM PARAMETERS - STPARM

1. GENERAL

The 5638 Record is available with 5E11 and later Software Releases. It is to provide information about a serving team. A serving team is a group of agent positions that services one or more call queues. This form supports the ACD/BRCS Interworking II feature. For more information on the ACD/BRCS feature see Division 2, Section 4A121.

1.1 Recent Change View

The corresponding Recent Change View for this form is 6.1.

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 * SERVING TEAM

Description: Enter the number of the serving team that will service this call queues.

Required Field.
Valid Entries: 1 - 999

2.3 SA Q

Description: Enter the service assistance call queue number. This number allows the serving team to conference with a service assistant associated with the call queue. If this field is not entered, it indicates that no service assistance is available.
Valid Entries: 1 - 999

Data Rules:

If SA Q entered, the value must be defined as a CALL QUEUE on a CQPARM form (5640 Record).

2.4 EMRG CF

Description: Does this team have a conference capability on an emergency call queue? If "Y" is entered in this field, this team has conference queue capability during an emergency call. When the EMRG button is pressed at an agent position, a conference call is set up with an emergecy assistant associated with an emergency call queue.

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

Data Rules:

If "Y" is entered, EMRG CF Q must be entered.

If "N" is entered, EMRG CF Q must not be entered.

2.5 EMRG CF Q

Description: Enter the emergency conference call queue number, if emergency call conference capability is available.
Valid Entries: 1 - 999

Data Rules:

IF EMRG CF Q entered, the value must be defined as a CALL QUEUE on a CQPARM form.

2.6 INTRAFLOW ALW

Description: Is this serving team allowed to receive intraflowed calls?

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

Data Rules:

If "Y" is entered:

- PCT INTRAFLOW must be entered.
- INTRAFLOW ALW on the ACDBPARM form is set to "Y".

2.7 PCT INTRAFLOW

Description: This field indicates the maximum percentage of currently logged-in agents of this serving team that is allowed to handle calls from supporting calls queues.
Valid Entries: 1 - 100 (%)

2.8 AFTER CALL WK

Description: Should the after-call work-state (auto make busy) be allowed? If "Y" is entered, then the ACD/BRCS position enters the "Make Busy with ACD call" state whenever the agent answers a hunted call. For more information on the ACD/BRCS feature see Division 2, Section 4A121.

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

2.9 LIVE MIKE

Description: Should a live mike be allowed during service observing? If "Y" is entered then the ACD/BRCS service observer is by default given a 2-way connection when service observing. If "N" is entered, then the ACD/BRCS service observer is by default given a 1-way connection when service observing.

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

Data Rules:

If "Y" is entered, then the Live Mike secured feature must be purchased, therefore, the ACT field for SFID 4 must be set to "Y".

2.10 WARN TONE

Description: This field specifies whether, during an ACD/BRCS service observe session, a warning tone is provided to the observed agent, or it is provided to the observed agent and far party, or it is not provided to either the agent or the far party. No entry in this field indicates a warning tone is not provided.

Valid WARN TONE Entries

Entry	Definition
1ALL	A warning tone is provided once to the agent and the far end.
AGENT	Only the agent being observed hears a warning tone.
ALL	The agent being observed and far end hear a warning tone.

2.11 # TGID

Description: Enter the Terminal Group Identification used to assign the serving team to an ACD/BRCS customer.

Required Field.
Valid Entries: 1 - 65535

Data Rules:

The TGID entered on this form must be defined as a GROUP ID on either the TGSRFD, TGSRLPA, TGSRMPA, TGSRTPA or BFG form.

2.12 ACD GROUP

Description: Enter the sub-terminal group which allows customers (or end-users) 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. Security, in this case, refers to the agents' inability to log-in to ACD groups other than the one to which they are assigned.

Required Field.
Default: 001
Valid Entries: 1 - 999

2.13 E911 PSAP

Description: Is this an ACD E911 Public Safety Answering Point serving team?

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

```
 *1. SERVING TEAM    ___
  2. SA Q            ___
  3. EMRG CF         N
  4. EMRG CF Q       ___
  5. INTRAFLOW ALW   N
  6. PCT INTRAFLOW   ___
  7. AFTER CALL WORK N
  8. LIVE MIKE       N
  9. WARN TONE       _____
#10. TGID            _____
 11. ACD GROUP       001
 12. E911 PSAP       N
```

Figure 1 SAMPLE STPARM FORM   5E11 AND LATER SOFTWARE RELEASES

SEC. 32D: 5639 RECORD
ACD AGENT ID ASSIGNMENT - AGNTID

1. GENERAL

The 5639 Record is available with 5E11 and later Software Releases. It is used to associate an Agent ID with a serving team. Multiple agents are typically assigned to a given serving team. In addition, this form specifies if the agent has monitoring capabilities and, if so, the password required to enable the monitoring (service observing) capabilities. This form supports the ACD/BRCS Interworking II feature. For more information on this feature, see Division 2, Section 4A121.

The value specified in the SERVING TEAM field must be defined on the STPARM form (5638 Record).

1.1 Recent Change View

The corresponding Recent Change View for this form is 6.3

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 * AGENT ID

Description: Enter the agent login identification.

Required Field.
Valid Entries: 1 - 32768

2.3 # SERVING TEAM

Description: Enter the serving team number to which this agent is assigned.

Required Field.
Valid Entries: 1 - 999

Data Rules:

The SERVING TEAM must be defined on an STPARM form (5638 Record).

2.4 MON PERMISSION

Description: Does this agent have permission to monitor (service observer) other agents?
Default: N
Valid Entries: Y, N

Data Rules:

If "Y" is entered, then PASSWORD must be entered.

2.5 PASSWORD

Description: Enter the 6-digit password required by the agent to perform monitoring.
Valid Entries: 6 digits from 0 - 9

```
agntid                          5ESS SWITCH
                          OFFICE DATA ADMINISTRATION
(5639)                     ACD AGENT ID ASSIGNMENT

*1. AGENT ID       _____
#2. SERVING TEAM   ___
 3. MON PERMISSION N
 4. PASSWORD       ______
```

Figure 1 SAMPLE AGNTID FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 32E: 5640 RECORD
ACD CALL QUEUE PARAMETERS FORM - CQPARM

1. GENERAL

The 5640 Record is available with the 5E11 and later Software Releases. It is used to assign administrative data to be applied to call queues. All serving teams specified on the SERVING TEAM field must be defined on the STPARM form (5638 Record, RC View 6.1).

This form supports the ACD/BRCS Interworking II feature. For more information on this feature, see Division 2, Section 4A121.

1.1 Intraflow Background Information

The supporting teams are searched in order until either

- the queue delay of the call does not exceed a delay outflow threshold of a supporting serving team,
- the call checks all its supporting teams without success,
- or the call is assigned to a serving team.

For example:

Assume the following for a call arriving for call queue 1:

- Call queue one has serving team 2 as the principal serving team and supporting serving teams 3 and 4, with delay outflow thresholds of 5 and 15, respectively.
- Call queue one has two calls on queue and there are no available servers on principle team 2.
- The call at the head of call queue one has waited 17 seconds.
- Serving team 3's threshold is 50% for maximum percentage of currently logged-in operators allowed to handle calls from supporting call queues (PCT INTRAFLOW on STPARM form). It has four agents logged-in and two are busy with calls from supporting serving teams.
- Serving team 4's team threshold is 75%. It has ten agents logged-in. One is busy with a call from a supporting queue. The new call is queued because other calls are already queued.

The ACD (Automatic Call Distributor) checks the call at the head of the queue and finds that it has waited longer than the delay outflow threshold for the first supporting serving team 3. The call cannot be intraflowed to team 3, because doing so would cause more than 50% of the agents on the serving team to be handling calls from supporting queues simultaneously. So, the ACD checks the next supporting team. The call has also waited longer than the delay outflow threshold for its second supporting team team 4. The call is intraflowed to team 4 because team 4 will have only 20% of its agents handling calls from its supporting queues, which is much less than its team threshold of 75%.

1.2 Recent Change View

The corresponding Recent Change View for this form is 6.4

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 * CALL QUEUE

Description: Enter the ACD (Automatic Call Distributor) call queue number.

Required Field.
Valid Entries: 1 - 999

Data Rules:

CALL QUEUE(s) that are defined on this form and have a SERVING TEAM entered and one or more SUP TEAM(s) entered, then each SERVING TEAM and SUP TEAM must be defined on the STPARM form with the same E911 PSAP value.

2.3 SERVING TEAM

Description: Enter the principal serving team number for the call queue.
Valid Entries: 1 - 999

Data Rules:

If a value is entered for SERVING TEAM, then it must be defined as a SERVING TEAM on the STPARM form (5638 Record).

2.4 # CD RTI

Description: Enter the route index for the close-down announcement.

Required Field.
Valid Entries:
 For 5E11 and 5E12: 1 - 4095
 For 5E13 and later: 1 - 16382

Data Rules:

An entry for CD RTI must be defined as a ROUTE INDEX on the RTIDX form. In addition, the RTIDX form must have an entry for TRUNK GROUP NUMBER. The TRUNK GROUP NUMBER must be defined as TGN on a TKGRP form with TRK DIR set to "ANN" or "OUT", and LOCAL SM must be unknown.

2.5 # ANN1 RTI

Description: Enter the first delay announcement route index.

Required Field.
Valid Entries:
 For 5E11 and 5E12: 1 - 4095
 For 5E13 and later: 1 - 16382

Data Rules:

An entry for ANN1 RTI must be defined as a ROUTE INDEX on the RTIDX form. In addition, the RTIDX form must have an entry for TRUNK GROUP NUMBER. The TRUNK GROUP NUMBER must be defined as TGN on a TKGRP form with TRK DIR set to "ANN" and LOCAL SM must be unknown.

2.6 # ANN2 RTI

Description: Enter the second delay announcement route index.

Required Field.
Valid Entries:
  For 5E11 and 5E12: 1 - 4095
  For 5E13 and later: 1 - 16382

Data Rules:

An entry for ANN2 RTI must be defined as a ROUTE INDEX on the RTIDX form. In addition, the RTIDX form must have an entry for TRUNK GROUP NUMBER. The TRUNK GROUP NUMBER must be defined as TGN on a TKGRP form with TRK DIR set to "ANN" and LOCAL SM must be unknown.

2.7 # ANN3 RTI

Description: Enter the third delay announcement route index.

Required Field.
Valid Entries:
  For 5E11 and 5E12: 1 - 4095
  For 5E13 and later: 1 - 16382

Data Rules:

An entry for ANN3 RTI must be defined as a ROUTE INDEX on the RTIDX form. In addition, the RTIDX form must have an entry for TRUNK GROUP NUMBER. The TRUNK GROUP NUMBER must be defined as TGN on a TKGRP form with TRK DIR set to "ANN" and LOCAL SM must be unknown.

2.8 CQ NAME

Description: Enter up to ten characters for the Call Queue name. This name must be unique for all call queues on the switch.
Valid Entries: 1 - 10 aphanumeric characters

Data Rules:

The CQ NAME entries on the CQPARM form must be unique.

2.9 SERV OBJ

Description: Enter the average delay in tenths of a second that calls of this type should expect before reaching a server.
Default: 100 (tenths of a second)

Valid Entries: 1 - 600 (tenths of a second)

2.10 MAX CALLS

Description: Enter the maximum number of calls allowed in the call queue. The sum of MAX CALLS for all call queues on the switch cannot exceed 40,000.
Valid Entries: 0 - 40000

Data Rules:

The sum of MAX CALLS on all CQPARM forms cannot exceed the maximum value of 40,000.

2.11 CWON SEC

Description: Enter the elapsed time in seconds, during a queue delay, after which the call waiting indicator will be displayed at the serving team positions for this call queue.
Default: 11 (seconds)
Valid Entries: 1 - 1800 (seconds)

Data Rules:

CWON SEC must be greater than CWOFF SEC.

2.12 WCOFF SEC

Description: Enter the elapsed time in seconds, during a queue delay, after which the call waiting indicator will not be displayed at the serving team positions for this call queue.
Default: 9 (seconds)
Valid Entries: 1 - 1800 (seconds)

2.13 CQ STATE

Description: Enter the availability of the call queue.

Required Field.
Default: CLOSED
Valid Entries:

Valid CQ STATE Entries

Entry	Definition
CLOSED	Call queue is not available
OPEN	Call queue is available
TOD	Call queue availability depends on the Time of Day.

Data Rules:

If CQ STATE is not "CLOSED", SERVING TEAM must be entered.

If "TOD" is entered, STATE in the CALL QUEUE TOD LIST must have an entry for every day of the week.

2.14 DEL1 THR

Description: Enter the threshold of the number of seconds of delay before the first announcement is played. 0 is used to force the first announcement.

Required Field.
Default: 15
Valid Entries: 1 - 1800 or 0 seconds

Data Rules:

DEL1 THR must be less than DEL2 THR.

2.15 DEL2 THR

Description: Enter the threshold of the number of seconds of delay before the second announcement is played.

Required Field.
Default: 40 (seconds)
Valid Entries: 1 - 1800 (seconds)

Data Rules:

DEL2 THR must be less than DEL3 THR.

2.16 DEL3 THR

Description: Enter the threshold of the number of seconds of delay before the third announcement is played.

Required Field.
Default: 60 (seconds)
Valid Entries: 1 - 1800 (seconds)

2.17 INTRAFLOW ALW

Description: Is intraflow allowed for this call queue? This field indicates whether the call queue may intraflow calls to other serving teams. Intraflow allows an ACD administrator to designate for each call queue a single principal serving team and up to 8 supporting serving teams with associated delay outflow thresholds.

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

Data Rules:

If "Y" is entered:

- at least one SUP TEAM must have a value of 1 - 999.
- SUP TEAMs in SUPPORT TEAM LIST which are defined on an STPARM form must have INTRAFLOW ALW set to "Y" on the STPARM form.

2.18 QUEUE BUSY

Description: Should a busy tone be given when call queue is full? This field indicates if busy tone should be given, instead of announcement or re-order, when a call is routed to the specified call queue and there are no queue slots available for that queue.

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

2.19 DELAY BUSY

Description: Should a busy tone be given when delay threshold is exceeded? This field indicates if busy tone should be given, instead of announcement or re-order, when the "DEL3 THR" threshold for the specified call queue has been exceeded.

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

2.20 TGID

Description: The TGID field displays the TGID (Terminal Group Identifier) (if it is assigned) to an ACD/BRCS serving team on the RC View 6.4. (It is not displayed on this ODA form.) When a TGID is assinged on the STPARM form (RC View 6.1), and that serving team is associated with a CALL QUEUE on this form, then any subsequent updates of the TGID value on View 6.1 will cause the terminal group to be updated for all the CALL QUEUEs that are associated with the SERVING TEAM having this TGID.
Valid Entries: 1 - 65535

2.21 ACD GROUP

Description: This is a Recent Change only field to display the ACD group identification. This field uniquely identifies a sub-terminal group to allow call centers to be divided 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.
Default: 1
Valid Entries: 1 - 999

Q DIALING

The following field (Section 2.22) applies to queue-dialed calls.

2.22 ACD OR DAA TN

Description: This is a Recent Change display-only field. The automatic call distribution or direct agent access telephone number to the call queue is displayed on the 6.4 RC View, if it has been assigned. This field is assigned by setting the Q DIALING TN field on RC View 6.10 (ACDTN form 5631-1 Record). When the Q DIALING TN field on View 6.10 is set to "N", then no value will be displayed in this field on the RC View 6.4. The ACD OR DAA TN is not displayed on this ODA form.

SUPPORT TEAM LIST (SUPTEAMLIST)

The following fields (Section 2.23 - Section 2.24) list supporting serving team numbers and dealy thresholds for supporting teams. A call queue may have 0 - 8 supporting serving teams.

2.23 SUP TEAM

Description: Enter the supporting serving team number for the intraflow supporting team.

Valid Entries: 1 - 999

Data Rules:

The supporting serving team entered in SUP TEAM, must not equal the value entered in SERVING TEAM.

SUP TEAM entries must be unique. Supporting serving team numbers must be unique.

When SUP TEAM in SUPTEAMLIST is entered, SERVING TEAM must be entered.

Each SUP TEAM in SUPPORT TEAM LIST assigned on a CQPARM form must be defined on an STPARM form.

Each SERVING TEAM and SUP TEAM assigned on this form must be defined on the STPARM form with the same E911 PSAP value.

2.24 DELAY THRSH

Description: Enter the delay outflow threshold in seconds for intraflow to the supporting serving team. See Intraflow Background Information under the GENERAL section.
Valid Entries: 0 - 1800 (seconds)

Data Rules:

If DELAY THRSH is greater than 0, the corresponding SUP TEAM must contain a value of 1 - 999.

DELAY THRSH 8 must be greater than or equal to DELAY THRSH 7, DELAY THRSH 7 must be greater than or equal to DELAY THRSH 6, DELAY THRSH 6 must be greater than or equal to DELAY THRSH 5, DELAY THRSH 5 must be greater than or equal to DELAY THRSH 4, etc.

CALL QUEUE TOD LIST (CQTODLIST)

The following fields (Section 2.25 - Section 2.28) list the call queue availability states, begin times and end times for call queues that are available depending on the TOD (Time Of Day).

2.25 DAY

Description: The day of the week is given at the beginning of the Call Queue TOD list.
Valid Entries: SUN, MON, TUE, WED, THR, FRI, SAT

2.26 STATE

Description: Enter the call queue time of day availability state of the call queue.

Valid TOD STATE Entries

Entry	Definition
CLSD	Closed state
OEXC	Open exclusive state - closed between begin time and end time
OINC	Open inclusive state - open between begin time and end time, closed otherwise.

Data Rules:

If STATE is not entered, BEGIN TIME and END TIME must not be entered.

If "CLSD" is entered and BEGIN TIME or END TIME is entered, both must be entered and BEGIN TIME must be less than END TIME.

If "OINC" or "OEXC" is entered, then BEGIN TIME and END TIME must both be entered and BEGIN TIME must be less than END TIME.

2.27 BEGIN TIME

Description: Enter the beginning time for the call queue time of day availability for this call queue. The time is specified in military time, which is a 24 hour HHMM format, where HH:00 - 23 MM:00 - 59. For example, 2315 hours is 11:15 P.M. and 0000 is 12:00 A.M..
Valid Entries: 0000 - 2359

2.28 END TIME

Description: Enter the ending time for the call queue time of day availability for this call queue. The time is specified in military time, which is a 24 hour HHMM format, where HH:00 - 23 MM:00 - 59. For example, 2315 hours is 11:15 P.M. and 0000 is 12:00 A.M..
Valid Entries: 0000 - 2359

```
cqparm                           5ESS SWITCH
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5640)                    ACD CALL QUEUE PARAMETERS

 *1. CALL QUEUE   ___                    13. DEL1 THR      0015
  2. SERVING TEAM ___                    14. DEL2 THR      0040
 #3. CD RTI       ____                   15. DEL3 THR      0060
 #4. ANN1 RTI     ____                   16. INTRAFLOW ALW N
 #5. ANN2 RTI     ____                   17. QUEUE BUSY    N
 #6. ANN3 RTI     ____                   18. DELAY BUSY    N
  7. CQ NAME      __________                 TGID
  8. SERV OBJ     100                        ACD GROUP
  9. MAX CALLS    00030
 10. CWON SEC     0011                           Q DIALING
 11. CWOFF SEC    0009                       ACD OR DAA TN
 12. CQ STATE     CLOSED
```

```
cqparm                           5ESS SWITCH
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5640)                    ACD CALL QUEUE PARAMETERS

 22. SUPPORT TEAM LIST (SUPTEAMLIST)     25. CALL QUEUE TOD LIST (CQTODLIST)
 ROW SUP TEAM  DELAY THRSH               DAY  STATE  BEGIN TIME  END TIME
  1    ___        ____                   SUN  ____      ____       ____
  2    ___        ____                   MON  ____      ____       ____
  3    ___        ____                   TUE  ____      ____       ____
  4    ___        ____                   WED  ____      ____       ____
  5    ___        ____                   THR  ____      ____       ____
```

6	____	_____	FRI	_____	_____	_____
7	____	_____	SAT	_____	_____	_____
8	____	_____				

Figure 1 SAMPLE CQPARM FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 32F: 5641 RECORD
ACD SEIZURE DISPLAY - SZDISP

1. GENERAL

The 5641 Record is available with the 5E11 Software Release. This form defines the display parameters provided when the operator position is seized for an incoming ACD/BRCS call. This form supports the ACD/BRCS Interworking II feature. For more information on this feature, see Division 2, Section 4A121.

1.1 Recent Change View

The corresponding Recent Change View for this form is 6.5

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * DISPX

Description: Enter the display index.
Valid Entries: 1 - 2047

TEXTUAL DISPLAY

The following field defines the text display.

2.3 DISPLAY

Description: Enter text of up to ten characters that are displayed at the agent position when the position is seized. Only alphanumeric, -, / characters or blank may be entered.
Valid Entries: 1 - 10 alphanumeric characters, -, /, or blank

CALLING/CALLED NUMBER DISPLAY

The following fields (Section 2.4 - Section 2.5) define the display for the calling or called number.

2.4 DN START

Description: Enter the calling or called number display start. The first digit of the incoming dialed digits that is displayed on the agent terminal must be specified.
Valid Entries: 1 - 10

Data Rules:

If DN START is entered, DN LENGTH must be entered.

If DN START is not entered, DN LENGTH must not be entered.

The sum of DN START and DN LENGTH must be less than or equal to 11. A maximum of 10 characters are allowed for display.

2.5 DN LENGTH

Description: Enter the calling or called number display length. This specifies the number of digits to be displayed on the agent terminal. The sum of DN START and DN LENGTH cannot be greater than the number of digits remaining after digit analysis, plus one.
Valid Entries: 1 - 10

DISPLAY CALLING/CALLED DN

The following fields (Section 2.6 - Section 2.7) define parameters for the display of the calling or called directory number.

2.6 CALLING DN

Description: Is the calling number directory number displayed?

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

Data Rules:

If "Y" is entered,
- CALLED DN must be "N".
- DN START must be entered.

2.7 CALLED DN

Description: Is the called number directory number displayed?

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

Data Rules:

If "Y" is entered, DN START must be entered.

```
szdisp                           5ESS SWITCH
                          OFFICE DATA ADMINISTRATION
(5641)                       ACD SEIZURE DISPLAY

*1. DISPX _____

    TEXTUAL DISPLAY
 2. DISPLAY ___________

CALLING/CALLED NUMBER DISPLAY
 3. DN START  __
 4. DN LENGTH __
```

```
DISPLAY CALLING/CALLED DN
 5. CALLING DN N
 6. CALLED DN  N
```

Figure 1 SAMPLE SZDISP FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 32H: 5643 RECORD ACD CALL VECTORS FORM - ACDVCT

1. GENERAL

The 5643 record is available with 5E11 and later Software Releases. This form is used to define the Call Vectoring steps that determine how an incoming call is to be treated while waiting for a ACD (Automatic Call Distributor) agent. This form supports the ACD/BRCS Interworking II feature. For more information on this feature, see Division 2, Section 4A121.

This record is used to identify the vector steps to be applied to a call that has been routed for call vectoring. Included among the steps that can be applied to a call are:

- placing the call in queue,
- playing an announcement or music,
- rerouting the caller to an alternate destination or
- branching to another step within the current vector or to a step in a different vector.

1.1 Activate the Feature

To apply Call Vectoring treatment to a call, the ACTIVATE field must be set to "Y". If the initial vector is not activated, all calls associated with that vector receive standard queueing and delay treatment.

1.2 Redirecting the Vector

The REDIR VECTOR field diverts calls to another VECTOR ID to receive alternate Call Vectoring treatment. If the vector specified in the redirection parameter does not exist, the call is placed in its call queue and receives standard queueing and delay treatment. Only one level of redirection is permitted. If the second vector also has a VECTOR ID populated in its REDIR VECTOR field, the second redirection is ignored and the call is provided with Call Vectoring treatment as defined by the second vector.

The initial vector, which redirects to another vector, must be activated. Any vector steps that are associated with a vector referenced during branching to a second vector are performed regardless of the activation state of the second vector.

1.3 Chaining Vectors

On a single ACDVCT form, up to 15 steps or commands can be identified in each vector. However, longer step sequences can be created by chaining vectors together using GOTO commands. The table in Figure 1 Call Vectoring Commands and Associated Arguments, displays the vector commands and their corresponding arguments to allow for the proper handling of the vector command.

The office maximum limits for the vector steps are set on the ACDBPARM form (5645 Record). Only one ACDBPARM form is entered per office.

Examples of Call Vectoring are given in Figures 2 and 3 at the end of this section.

1.4 Recent Change View

The corresponding Recent Change view for this form is 6.7.

2. BASE AND CONTROL, ESS UNIT

Enter the Base and Control number and office name on each record.

2.1 * VECTOR ID

Description: Enter the call vector number.

Required Field.
Valid Entries: 1 - 2048

2.2 ACTIVATE

Description: Should this vector be activated? Enter "Y" to activate this vector; enter "N" to deactivate it. When this attribute is "N", all calls assigned to this vector receive standard queueing and delay treatment.

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

2.3 REDIR VECTOR

Description: Enter the alternate Vector ID for redirection. Calls that would ordinarily receive call vectoring treatment on this form are redirected to the alternate vector number, defined on another ACDVCT form.
Valid Entries: 1 - 2048

Data Rules:

If the REDIR VECTOR is entered, then another ACDVCT form must exist which has a VECTOR ID equal to the REDIR VECTOR value on this form.This field entry cannot equal the VECTOR ID on this form.

CALL VECTOR STEPS

The following fields (Section 2.4 - Section 2.10) define the call vectoring steps for this VECTOR ID.

2.4 CMD CD

Description: Enter the call vector command code for steps 1 -15. This field defines the function to be performed by this vector step.

Valid CMD CD Entries

Entry	Definition
ANNOUNC	Connect call to announcement. This command is used to route a caller to an announcement identified by the RTI (Route Index). An optional error step may be defined to provide alternate treatment to the caller when an announcement channel cannot be obtained. If no error step is specified, vector processing will continue on to the next step.
ANSWER	Return answer supervision. This command is used to return answer supervision if it has not yet been returned.
BUSY	Forced busy. This command is used to disconnect a caller from any active delay treatment, remove the caller from queue and return busy tone to the caller prior to disconnecting the call. This command

	causes the call to be removed from vector processing.
DISC	Forced disconnect. This command is used to disconnect a caller from any active delay treatment, remove the caller from queue and optionally route the caller to an announcement prior to disconnecting the call. This command causes the call to be removed from vector processing. See ANNOUNC command for routing to an announcement.
GOTO	Unconditional GOTO. This command is used to unconditionally branch to a step in the current vector or to a step in another vector.
GOTOAGE	Conditional GOTO based on the age of the call at the head of a queue. This command is a conditional GOTO step used to branch to a step in the current vector or to a step in another vector when the specified condition is met. The decision to branch is based on the age of the first call in the specified Call Queue (length of time the first call has been in that queue). An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the age of the first call in queue is greater than 8191 seconds.
GOTOAVL	Conditional GOTO based on available agents. This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current number of agents who are not busy with a call or made busy in the specified Serving Team. An optional error step can be executed if the AM/CMP is in overload or the query for the serving team status fails. If the query for the serving team status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the number of available agents is zero.
GOTODLY	Conditional GOTO based on expected delay. This command is a conditional GOTO step used to branch to a step in this VECTOR ID or to a step in another VECTOR ID when the specified condition is met. The decision to branch is based on the expected delay for attaching a caller to an agent for calls in the specified Call Queue. An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the expected delay for calls in the queue to be serviced is greater than 8191 seconds.
GOTODOW	Conditional GOTO based on the day of the week. This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current Day-of-Week. One of five conditions can be identified: the current day is Less than or Equal to, "LE", Greater Than, "GT" or Equal to, "EQ", the specified day or the current day is Included in, "IN" or Excluded from, "EX", the specified day range. If the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed.
GOTONUM	Conditional GOTO based on TOUCH-TONE number(s) entered by caller. This command is used in conjunction with the PROMPT command to provide branching on caller-entered digits. It is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on evaluation of the digits entered by the caller.
GOTOQUE	Conditional GOTO based on the number of calls in a queue. This command may branch to a step in the current vector or to a step in another vector if the number of calls that currently reside in the specified Call Queue is greater than "GT", less than "LE" or equal to "EQ", the specified amount in CARG2. An optional error step can be executed if the AM/CMP is in overload or the query for the queue status fails. If the query for the queue

	status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this vector ID is executed. If an error step is not specified, the condition is evaluated assuming that number of calls in queue is greater than 40,000.
GOTOSTA	Conditional GOTO based on staffed agents. This command is a conditional GOTO step used to branch to a step in the current vector or to a step in another vector when the specified condition is met. The decision to branch is based on the current number of agents logged-in to the specified Serving Team. An optional error step can be executed if the AM/CMP is in overload or the query for the serving team status fails. If the query for the serving team status is successful and the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed. If an error step is not specified, the condition is evaluated assuming the number of agents logged-in is zero.
GOTOTOD	Conditional GOTO based on the time of day. This conditional GOTO command is used to branch to a step in this VECTOR ID or to a step in another vector when the specified condition is met. The decision to branch is based on the current Time-of-Day. One of four conditions can be identified: the current time is Less than or Equal to, "LE" or Greater Than "GT", the specified time or the current time is Included in "IN" or Excluded from, "EX" the specified time range. If the condition is met, vector processing branches to the specified step. If the condition is not met, the next step in this VECTOR ID is executed.
MUSIC	Delay caller with music. This command provides delay treatment to a caller by routing the call to a music source identified by the Route Index. The route index must be valid and correspond to a terminating port. This route index is also owned by the ACD/BRCS customer. An optional error step may be defined to provide alternate treatment to the caller if a music channel cannot be obtained. If the route attempt to the music source is unsuccessful and no error step is specified, the caller is provided with audible ring. The length of time that music is to be provided to the caller may be defined.
NOOP	No operation. This is the initial state for vectoring commands. This command can be used to temporarily disable steps rather than deleting them. The given step(s) remains intact but they are passed over during vector processing rather than executed.
PROMPT	Prompt caller for a number via TOUCH-TONE digit entry. This feature provides ACD customers with the ability to route callers to an announcement prior to delivery to an agent. The announcement is used to prompt callers for Touch-Tone input. The PROMPT command is a secured feature. The PROMPT command will not be activated until the ACT field for SFID 41 must be set to "Y" on the SFSYS form. See Division 2, Section 4A41 for more information on this feature. See also, Vector Prompt Enhancements (SFID 138) in Division 2, Section 4A138.
QUEUE	Queue or transfer call. This command causes a call to be placed in queue if it is not in a queue or transferred to the identified queue if the call has been queued. An error step is executed if the queue attempt fails either because the AM/CMP is in overload or the call could not be queued (e.g. the queue is full).
QUIET	Delay caller with silence. This command provides delay treatment to a caller in the form of silence. The length of time that silence is provided to the caller must be specified.
REQRTE	Request route call vectoring command for Third Party Call Control. The REQRTE command is a secured feature (SFID 222) used to route calls to another destination based on the routing information sent by the customer's host computer to the switch. Routing choices allow the system administrator of the host computer to specify a 1 - 10 digit TN, an ACD/BRCS call queue ID, an ACD/BRCS vector ID, or an ACD/BRCS agent ID. See Division 2, Section 4A222 for more information.
RING	Delay caller with audible ring.

	This command provides delay treatment to a caller in the form of audible ring.
ROUTE	Route call to remote destination. When this command is executed, the call is removed from queue and vector processing is terminated. ARG1 for the ROUTE step is the Destination Number Index and must be defined in the ACDVCTN form (5644 Record). The ACDVCTN form assigns either a 1 - 15 digit telephone number for routing the call. The intended use of this command is to reroute calls to another destination when the queue is either closed or full and cannot handle the call.
STOP	Stop vector processing. This command is used to halt further vector processing. If the call has not been queued, the caller is provided with reorder. If the call has been queued, any active delay treatment continues and the call remains in queue. The call remains in this state until the caller abandons or the caller is attached to an agent.

Data Rules:

ANNOUNC:

If "ANNOUNC" is entered:

ARG1 must be a valid route index:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

The following must not be entered:

ARG2

CARG1

CARG2, or
for 5E12 and later, CARG2 must be 1 - 165 (for the Immediate Start Announcement feature) or not entered

COND

If "ANNOUNC" or "DISC" is entered on the ACDVCT form, ARG1 of the same CALL VECTOR STEP on this form must match ROUTE INDEX on a RTIDX form where CI ROUTE TYPE is "GENANN" and TRUNK GROUP NUMBER is entered.
The TRUNK GROUP NUMBER on the RTIDX form must be defined as TGN on a TKGRP form with
TRK DIR set to "ANN", and
CYCLES must be greater than 0.

In addition, there must be a TRUNK form defined for this TKGRP where TGN on the TKGRP form matches TGN on the TRUNK form and MEMB is 0.

For 5E12 SU and later, if "ANNOUNCE", "DISC", or PROMPT is entered, and CARG2 is entered with a value from 1 - 165, ARG1 must be defined as ROUTE INDEX on the RTIDX form and each of the RTIDX forms must have a TRUNK GROUP NUMBER that corresponds to a TGN on the TKGRP form where IMM START ANN is "Y".

ANSWER:

If "ANSWER" is entered, the following cannot be entered:

ARG1
ARG2
CARG1
CARG2
COND
ERR

BUSY:
If "BUSY" is entered, the following cannot be entered:
ARG1
ARG2
CARG1
CARG2
COND
ERR

DISC:
If "DISC" is entered:
ARG1 must be a valid route index:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

The following must not be entered:
ARG2
CARG1
CARG2, or
for 5E12 and later, CARG2 must be 1 - 165 (for the Immediate Start Announcement feature) or not entered
COND
ERR

If "DISC" or "ANNOUNC" is entered on the ACDVCT form, ARG1 of the same CALL VECTOR STEP on this ACDVCT form must match ROUTE INDEX on a RTIDX form where CI ROUTE TYPE is "GENANN" and TRUNK GROUP NUMBER is entered.
The TRUNK GROUP NUMBER on the RTIDX form must be defined as TGN on a TKGRP form with

- TRK DIR set to "ANN", and
- CYCLES must be greater than 0

In addition, there must be a TRUNK form defined for this TKGRP where TGN on the TKGRP form matches TGN on the TRUNK form and MEMB is 0.

For 5E12 SU and later, if "DISC", "ANNOUNCE", or PROMPT is entered, and CARG2 is entered with a value from 1-165, ARG1 must be defined as ROUTE INDEX on the RTIDX form and each of the RTIDX forms must have a TRUNK GROUP NUMBER that corresponds to a TGN on the TKGRP form where IMM START ANN is "Y".

GOTO:
If "GOTO" is entered,

either ARG1 must not be entered, or
it must be a valid vector number: 1 - 2048.
ARG2 must be a valid step number: 1 - 15.
The following must not be entered:

CARG1

CARG2

COND

ERR

GOTOAGE If "GOTOAGE" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048.
ARG2 must be a valid step number: 1 - 15.
CARG1 must be a valid queue number: 1 - 999
CARG2 must be a valid queued-call-age
threshold: 1 - 8191
COND must be a valid condition: "GT" or "LE"

If "GOTOQUE", "GOTOAGE" or "GOTODLY" is entered, one CQPARM form must be entered where CALL QUEUE equals CARG1 of that same CALL VECTOR STEP on this form.

GOTOAVL:
If "GOTOAVL" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048.
ARG2 must be a valid step number: 1 - 15
CARG1 must be a serving team: 1 - 999
CARG2 must be a valid serving team
threshold: 0 - 9999
COND must be a valid condition: "GT" or "LE"

If "GOTOSTA" or "GOTOAVL" are entered, then one STPARM form must be entered where SERVING TEAM equals CARG1 of that same CALL VECTOR STEP on this form.

GOTODLY:
If "GOTODLY" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048.
ARG2 must be a valid step number: 1 - 15.
CARG1 must be a valid queue number: 1 - 999
CARG2 must be a valid queued-call-age
threshold: 1 - 8191
COND must be a valid condition: "GT" or "LE"

If "GOTOQUE", "GOTOAGE" or "GOTODLY" is entered, one CQPARM form must be entered where CALL

QUEUE equals CARG1 of that same CALL VECTOR STEP on this form.

GOTODOW:
If "GOTODOW" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048
ARG2 must be a valid step number: 1 - 15
CARG1 must be a valid day of week: 1 - 7
ERR must not be entered.
COND must be a valid condition:

"EQ", "EX", "GT", "IN", or "LE"

if COND is "IN" or "EX" then:

CARG2 must be a valid day of week1 - 7

if COND is "EQ", "GT", "LE" then:

CARG2 must not be entered.

GOTONUM:
If "GOTONUM" is entered
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048
ARG2 must be a valid step number: 1 - 15
CARG1 must be a valid number of digits: 0 - 32.
CARG2 must be a valid number of
digits value: 0 - 16
COND must be a valid condition: "EQ", "GT",
or "LE"

If an entry is made in the CARG1 field, the entry specifies the caller-entered digit to be examined as part of the conditional evaluation. If no entry is made in this field, the first digit is examined.

Vector Processing branches to the step specified by the optional error step of a GOTONUM command when the number of caller-entered digits is less than the value populated in the CARG1 field. When this occurs, the branch occurs immediately and evaluation of the condition is bypassed. If no error step is identified, the condition is evaluated even if the specified number of digits are not entered by the customer (the digits not entered by the caller are padded with 'empty' digits and used in the evaluation).

The entry in the CARG2 field identifies a digit value which is used in the evaluation of the condition. This value is compared against the specified caller-entered digit (or the first digit if no entry exists in the CARG1 field) to determine if the condition evaluates to TRUE or FALSE.

GOTOQUE:
If "GOTOQUE" is entered,
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048
ARG2 must be a valid step number: 1 - 15

CARG1 must be a valid queue number: 1 - 999
CARG2 must be a valid calls-in-queue
threshold: 0 - 40000
COND must be a valid condition: "GT" or "LE"

If "GOTOQUE", "GOTOAGE" or "GOTODLY" is entered, one CQPARM form must be entered where CALL QUEUE equals CARG1 of that same CALL VECTOR STEP on this form.

GOTOSTA:
If "GOTOSTA" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048.
ARG2 must be a valid step number: 1 - 15
CARG1 must be a serving team: 1 - 999
CARG2 must be a valid serving team
threshold: 0 - 9999
COND must be a valid condition: "GT" or "LE"

If "GOTOSTA" or "GOTOAVL" are entered, then one STPARM form must be entered where SERVING TEAM equals CARG1 of that same CALL VECTOR STEP on this form.

GOTOTOD:
If "GOTOTOD" is entered:
ARG1 must not be entered, or
must be a valid vector number: 1 - 2048
ARG2 must be a valid step number: 1 - 15
ERR must not be entered
CARG1 must be a valid time of day in
HHMM: 0000 - 2359
COND must be a valid condition:

"EX", "GT", "IN", or "LE"

If COND is "EX" or "IN", CARG2 must be a valid time of day in HHMM: 0000 - 2359

If COND is "GT" or "LE" CARG2 must not be entered.

MUSIC:
The length of time that music is to be provided to the caller may be defined.

- If no time limit is specified and the call has been previously queued, vector processing is stopped and the caller continues to hear music until an agent is available or until the caller abandons.
- If no time limit is specified and the caller is not in a queue, the caller will get reorder.
- If no time limit is specified, and the caller is not in a queue and the A NOT QUEUED SEC set to 0 on the ACDBPARM form, the caller will get reorder.

If "MUSIC" is entered:

ARG1 must be a valid route index:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

ARG2 must not be entered, or
be a valid duration in seconds: 15 - 1023
The following must not be entered:

CARG1

CARG2

COND

If "MUSIC" is entered, then ARG1 of the same CALL VECTOR STEP on this ACDVCT form must match ROUTE INDEX on a RTIDX form where CI ROUTE TYPE is "GENANN" and TRUNK GROUP NUMBER is entered.
The TRUNK GROUP NUMBER on the RTIDX form must be defined as TGN on a TKGRP form with
TRK DIR set to "ANN",
BARGE IN set to "Y", and
CYCLES must be 0 or unknown.

In addition, there must be a TRUNK form defined for this TKGRP where TGN on the TKGRP form matches TGN on the TRUNK form and MEMB is 0.

WARNING: For 5E11 and later, if "MUSIC" is entered, the selected music (on hold) source (defined on the TGATTD form (5611 Record) via the TGN and MEMB fields) must not be shared by any other music source. Therefore, the TGN from the TGATTD form should not match the TRUNK GROUP MEMBER from the RTIDX form (5643 Record).

PROMPT:
The PROMPT command routes the caller to an announcement which prompts the called for TOUCH-TONE digit entry. The digits are collected and then used to provide the following functions:

- to determine the appropriate call queue (and ultimately serving team) to handle the call. This allows a caller to be connected to an agent trained specifically to handle the caller's needs.
- to provide front-end digit collection (such as a credit card number, social security number or zip code). This allows faster call handling as data is available to the agent upon position seizure.

The announcement is provided to a caller through a 13A or similar unit. Digit collection is accomplished through the use of UTDs (Universal Tone Decoders) equipped in the OSM (Originating Switching Module). When a PROMPT command is encountered in a vector, the caller is routed to the announcement unit as specified by the route index given in ARG1. ARG2 specifies the maximum number of digits to collect. Digits entered after the maximum value has been reached are not collected in this PROMPT step. An optional error step may be specified to identify call treatment if an announcement unit cannot be accessed or a UTD is not available.

The UTD is connected to the call prior to routing to the announcement. This allows callers to begin digit entry prior to the completion of the announcement. The path to the announcement is dropped once the first digit is entered. On variable length multi-digit entries, the "#" key may be used to signal early input termination before the specified maximum number of digits has been entered. The "*" key may be used to delete all previously entered digits. This key may be depressed at any time until the caller has entered the maximum number of digits as specified in the PROMPT command. The caller can then begin reentry of the number.

Upon termination of the prompting announcement, the caller has the number of seconds entered in the FIRST DIGIT field on on the ACDBPARM form (5645 Record) to begin digit entry. (See also the OTHER DIGITS field on the ACDBPARM form.) Failure to begin digit entry within 8 seconds causes Touch-Tone entry to be terminated and Vector Processing to proceed to the next step. Once digit entry has begun, the caller has 5 seconds between each digit to continue digit entry. Touch-Tone entry is terminated and Vector processing proceeds to the next step if the caller pauses for more than 5 seconds between digits. Failure to obtain an 8 second timer prior to entry of the first digit is treated as an immediate timeout and entry is terminated. Failure to obtain a timer for subsequent digits is ignored and the PROMPT command waits indefinitely for the next digit. Early input termination may also occur:

- when an agent is attached to the call prior to entry of all digits (this may only occur when the call has been queued prior to the PROMPT step)
- when the prompting announcement exceeds the length of time that an announcement can last for a call that has not been previously placed in a queue (this may only occur when the call has not been queued prior to the PROMPT step).

On multi-digit entries, the caller-entered digits are sent to the MIS as part of the vector PROMPT message. The determination of whether an entry is multi-digit or not is based on the value populated in the ARG2 field. The MIS receives a vector PROMPT message for all PROMPT steps in which the value of the ARG2 field is greater than one even if the caller enters only one digit. Single digit entries are not sent to the MIS as they are typically associated with the selection of a call queue and would not be useful to the ACD customer. A partial multi-digit entry is sent to the MIS for any of the early input termination cases discussed above.

Once the caller-entered digits have been collected, the GOTONUM command maybe used. The GOTONUM command contains a conditional argument used to determine the proper handling of a call. If the condition evaluates to TRUE, Call Vectoring treatment branches to the specified step in this VECTOR ID or to a step in another vector. If the condition evaluates to FALSE, the next step in the current vector is processed.

See Figure 2 and Figure 3 for examples of PROMPT command.

If "PROMPT" is entered:
ARG1 must be a valid route index:

For 5E12 and earlier: 1 - 4095

For 5E13 and later: 1 - 16382

ARG2 must be a valid number of digits: 1 - 32
CARG2 must not be entered, or for 5E12 and later, CARG2 must be 1 - 165 (for the Immediate Start Announcement feature) or not entered
COND must not be entered

NOTE: A 1 entered in CARG1 will be used for the Vector Prompt Enhancement secured feature. For more information on this feature, see Division 2, Section 4A138.

If "PROMPT" is entered, ARG1 of the same CALL VECTOR STEP on this ACDVCT form must match ROUTE INDEX on a RTIDX form where CI ROUTE TYPE is "GENANN" and TRUNK GROUP NUMBER is entered. The TRUNK GROUP NUMBER on the RTIDX form must be defined as TGN on a TKGRP form with
TRK DIR set to "ANN", and
CYCLES must be 1.

In addition, there must be a TRUNK form defined for this TKGRP where TGN on the TKGRP form matches TGN on the TRUNK form and MEMB is 0.

For 5E12 SU and later, if "PROMPT", "DISC", or "ANNOUNC" is entered, and CARG2 is entered with a value from 1 - 165, ARG1 must be defined as ROUTE INDEX on the RTIDX form and each of the RTIDX forms must have a TRUNK GROUP NUMBER that corresponds to a TGN on the TKGRP form where IMM START ANN is "Y".

QUEUE:
If "QUEUE" is entered:
ARG1 must be a valid queue number: 1 - 999
ARG2 must not be entered, or
must be a valid display index: 1 - 2047
ERR must be a valid error step number: 1 - 15
CARG1 must not be entered
CARG2 must not be entered
COND must not be entered

If "QUEUE" is entered:

- ARG1 of the same CALL VECTOR STEP on this ACDVCT form must match CALL QUEUE on a CQPARM form.
- and if the corresponding ARG2 element has an entry, a SZDISP form must be defined where ARG2 on this ACDVCT form matches DISPX on the SZDISP form.

QUIET:
If "QUIET" is entered:
ARG2 must be a valid duration in seconds: 5 -1023
The following must not be entered:

ARG1

CARG1

CARG2

COND

ERR

REQRTE:
If "REQRTE" is entered:
ARG1 must not be entered, or

must be 1 - 1000.
ARG2 must not be entered
CARG1 must not be entered
CARG2 must not be entered
COND must not be entered
ERR must be a valid step number: 1 - 15

RING:
The length of time that audible ring is to be provided to the caller may be defined.

- If no time limit is specified and the call has been previously queued, vector processing is stopped and the caller continues to hear audible ring until an agent is available or until the caller abandons.
- If no time limit is specified and the caller is not in a queue, the caller will get reorder.
- If no time limit is specified, and the caller is not in a queue and the A NOT QUEUED SEC is set to 0 on the ACDBPARM form, the caller will get reorder.

If "RING" is entered:
ARG2 must not be entered, or
must be a valid duration in seconds: 5 - 1023
The following must not be entered:

ARG1

CARG1

CARG2

COND

ERR

ROUTE:
If "ROUTE" is entered:
ARG1 must be a valid destination number: 1 - 2048

- The following must not be entered:

ARG2

CARG1

CARG2

COND

ERR

If "ROUTE" is entered, and the corresponding ARG1 element has an entry, an ACDVCTN form must be defined where ARG1 on the ACDVCT form matches DEST NBR on the ACDVCTN form.

STOP:
If "STOP" is entered, the following cannot be entered:
ARG1
ARG2
CARG1
CARG2
COND
ERR

2.5 ARG1

Description: Enter the first argument for the vector step. See Figure 1 for types of ARG1 arguments associated with a specific vector command.
Valid Entries:
For 5E12 and earlier: 0 - 4095
For 5E13 and later: Blank, or 1 - 16382

2.6 ARG2

Description: Enter the second argument for the vector step. See Figure 1 for types of ARG2 arguments associated with a specific vector command. ARG2 of the GOTO steps cannot branch back to the same step.
Valid Entries: 1 - 2047

Data Rules:

ARG2 of a GOTO-type step should not branch back to the same step.

2.7 ERR

Description: Enter the error treatment vector step number. For example, "MUSIC" can fail to route to a music port if is is already connected to the maximum number of calls it can support. When such a failure occurs, vector processing can be diverted to another vector step by specifying that step in the ERR field.
Valid Entries: 1 - 15

2.8 COND

Description: Enter the conditional specification for a conditional GOTO statement. For example, if "LE" is entered, the branch step occurs if the condition being tested is less than or equal to the entry in CARG1 / CARG2.

Valid COND Entries

Entry	Definition
EX	Excluded from a range of values
EQ	Equal to a value
GT	Greater than a value
IN	Included in a range of values
LE	Less than or equal to a value

2.9 CARG1

Description: Enter the first conditional GOTO argument of the vector step. See Figure 1 for types of CARG1

arguments associated with a specific Vector Command.
Valid Entries: 0 - 2359

2.10 CARG2

Description: Enter the second conditional GOTO argument of the vector step. See Figure 1 for types of CARG2 arguments associated with a specific Vector Command.

For 5E12 SU and later, CARG2 also supports the Immediate Start Announcement feature (see Division 2, Section 1BX).
Valid Entries:

0 - 40000
1 - 165 (Immediate Start Announcement)

CALL VECTORING COMMANDS AND ASSOCIATED ARGUMENTS

CMD CD	ARG1	ARG2	ERR	COND	CARG1	CARG2
ANNOUNC	RTI		[Step #]			1 - 165 (Immediate Start Announcement feature)
ANSWER						
BUSY						
DISC	[RTI]					1 - 165 (Immediate Start Announcement feature)
GOTO	[Vector #]	Step #				
GOTOAGE	[Vector #]	Step #	[Step #]	GT/LE	Queue #	1-8191
GOTOAVL	[Vector #]	Step #	[Step #]	GT/LE	Serv Team #	0-9999
GOTODLY	[Vector #]	Step #	[Step #]	GT/LE	Queue #	1-8191
GOTODOW	[Vector #]	Step #		GT/LE/EQ	1-7	
GOTODOW	[Vector #]	Step #		IN/EX	1-7	1-7
GOTONUM	[Vector #]	Step #	[Step #]	GT/LE/EQ	[Digit Index]	0-16
GOTOQUE	[Vector #]	Step #	[Step #]	GT/LE	Queue #	0-40000
GOTOSTA	[Vector #]	Step #	[Step #]	GT/LE	Serv Team #	0-9999
GOTOTOD	[Vector #]	Step #		GT/LE	HHMM	
GOTOTOD	[Vector #]	Step #		IN/EX	HHMM	HHMM
MUSIC	RTI	[15-1023]	[Step #]			
NOOP						
PROMPT	RTI	1-32	[Step #]		[Flag]	1 - 165 (Immediate Start Announcement feature)
QUEUE	Queue #	[DISPX]	Step #			
QUIET		5-1023				
RING		[5-1023]				
ROUTE	DEST NBR					
STOP						

[ ] - Arguments or error steps enclosed in [ ] are optional.
Queue # - Call Queue Number of call type ID
DISPX - Display index
Flag - 1 is used be the Vector Prompt Enhancement feature step to collect digits for display at agent terminal.
Serv Team - Serving Team Number

HHMM	-	Hours and Minutes
RTI	-	Route index

Figure 1 CALL VECTORING COMMANDS AND ASSOCIATED ARGUMENTS

EXAMPLE 1: CALL VECTOR SCENARIO

Step	CMD CD	ARG1	ARG2	ERR Step	COND	CARG1	CARG2
1	PROMPT	304	2	6			
2	GOTONUM		4		LE		5
3	BUSY						
4	QUEUE	75		6			
5	MUSIC	2015					
6	STOP						

1. When the above vector is processed, the caller is routed to the announcement associated with ROUTE INDEX 304.
2. The announcement prompts the caller for input. A maximum of 2 digits are accepted, as specified by the value in the ARG2 field.
3. After the caller-entered digits have been collected, the "GOTONUM" command is evaluated. Because CARG1 is blank, the first digit entered is compared against the digit 5, the value identified in the CARG2 field.
4. If the first digit entered is less than or equal to 5, then the condition is evaluated as TRUE and Vector Processing branches to Step 4 in the current VECTOR ID, as specified by the value in the ARG2 field. Step 4 places the caller in call queue 75 and then provides the caller with the music source associated with ROUTE INDEX 2015 and vector processing stops because a time limit has not been specified in ARG2 of the MUSIC step (step 5). The caller is connected to the music until an agent becomes available for the call or the calling party abandons.

   If the first digit entered is not less than or equal to 5, the condition is evaluated as FALSE and the next step, Step 3 is processed. Step 3 causes Vector Processing to stop and busy tone to be returned to the caller.

Figure 2 CALL VECTOR SCENARIO 1

EXAMPLE 2: CALL VECTOR SCENARIO

Step	CMD CD	ARG1	ARG2	ERR Step	COND	CARG1	CARG2
1	PROMPT	305	32				
2	GOTONUM		5		EQ		11
3	GOTONUM		5		EQ	32	2
4	BUSY						
5	QUEUE	75		7			
6	MUSIC	2015					
7	STOP						

1. When the above vector is processed, the caller is routed to the announcement associated with ROUTE INDEX 305.
2. The announcement prompts the caller for input. A maximum of 32 digits will be accepted, as specified by the value in the ARG2 field.
3. After the caller-entered digits have been collected, the GOTONUM command identified in Step 2 is evaluated. The first digit entered, (CARG1 is blank) is compared against the "#" key, the value identified in the CARG2 field.
4. If the first digit entered is equal to "#", then the condition is evaluated as TRUE and Vector Processing branches to Step 5 in the current VECTOR ID, as specified by the value in the ARG2 field. Step 5 indicates that the caller is to be placed in call queue 75 and then Step 6 provided with the music source associated with ROUTE INDEX 2015 and vector processing stops.

   If the first digit entered is not equal to "#", then the condition is evaluated as FALSE and the next step, Step 3 is processed. Step 3 specifies that another "GOTONUM" command is to be evaluated.
5. When Step 3 is processed, the 32nd caller-entered digit, as specified by the value in the CARG1 field, is compared against the digit 2, the value identified in the CARG2 field. If the 32nd digit is equal to 2, then the condition is evaluated as TRUE and Vector Processing branches to Step 5 in the current VECTOR ID, as specified by the value in the ARG2 field. If the 32nd digit entered is not equal to 2, the condition is evaluated as FALSE and the next step, Step 4 is processed. Step 4 causes Vector Processing to stop and busy tone to be returned to the caller.

Figure 3 CALL VECTOR SCENARIO 2

```
acdvct                           5ESS SWITCH
SCREEN 1 OF 2             OFFICE DATA ADMINISTRATION
(5643)                         ACD CALL VECTORS

*1. VECTOR ID    ____
 2. ACTIVATE     N
 3. REDIR VECTOR ____
                             4. CALL VECTOR STEPS
   ROW   CMD CD      ARG1      ARG2      ERR   COND      CARG1       CARG2
    1    _______     ____      ____      __     __       ____         _____
    2    _______     ____      ____      __     __       ____         _____
    3    _______     ____      ____      __     __       ____         _____
    4    _______     ____      ____      __     __       ____         _____
    5    _______     ____      ____      __     __       ____         _____
    6    _______     ____      ____      __     __       ____         _____
    7    _______     ____      ____      __     __       ____         _____
```

```
acdvct                           5ESS SWITCH
SCREEN 2 OF 2             OFFICE DATA ADMINISTRATION
(5643)                         ACD CALL VECTORS

                             4. CALL VECTOR STEPS
   ROW   CMD CD      ARG1      ARG2      ERR   COND      CARG1        CARG2
     8   _______     ____      ____      __     __       ____          _____
     9   _______     ____      ____      __     __       ____          _____
    10   _______     ____      ____      __     __       ____          _____
    11   _______     ____      ____      __     __       ____          _____
    12   _______     ____      ____      __     __       ____          _____
    13   _______     ____      ____      __     __       ____          _____
    14   _______     ____      ____      __     __       ____          _____
    15   _______     ____      ____      __     __       ____          _____
```

Figure 4 SAMPLE ACDVCT FORM   5E11 AND LATER SOFTWARE RELEASES

SEC. 32I: 5644 RECORD
ACD CALL VECTORING DESTINATION TN FORM - ACDVCTN

1. GENERAL

The 5644 Record is available with 5E11 and later Software Releases. It is used to define and administer remote telephone numbers. In call vector processing, a ROUTE step is used to send a call to another ACD site. The ROUTE step contains a specified destination number which is mapped to a TN. (See the ACDVCT form, 5643 Record).

This form supports the ACD BRCS Interworking II feature. For more information on this feature, see Division 2, Section 4A121.

1.1 Recent Change View

The corresponding Recent Change View for this form is 6.8.

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * DEST NBR

Description: Enter the destination index (ROUTE step Destination Number). When the CMD CD element of CALL VECTOR STEPS is "ROUTE" on the ACDVCT form, and the corresponding ARG1 element has an entry, ARG1 on the ACDVCT form matches DEST NBR on this form.

Required Field.
Valid Entries: 1 - 2048

2.3 # TN

Description: Enter the telephone directory number the ACD site. The ROUTE step on the ACDVCT form is used to send a call to this remote ACD site.

Required Field.
Valid Entries: 1 - 15 digit

```
acdvctn                          5ESS SWITCH
                          OFFICE DATA ADMINISTRATION
(5644)                 ACD CALL VECTORING DESTINATION TN

*1. DEST NBR _____
#2. TN       _______________
```

Figure 1 SAMPLE ACDVCTN FORM 5E11 AND LATER SOFTWARE RELEASES

SEC. 32K: 5645 RECORD
ACD/BRCS OFFICE PARAMETERS - ACDBPARM

1. GENERAL

The 5645 Record is available with 5E11 and later Software Releases. It is used to define the office parameters for ACD/BRCS (Automatic Call Distribution / Business and Residential Custom Services) features, ACD users, and define limits for call vectoring. Only one ACDBPARM form is entered for an office. This view supports the ACD/BRCS Interworking II features For more information on these features see Division 2, Section 4A121.

1.1 Call Vectoring

The ACDVCT form (5643 Record) defines the Call Vectoring Steps. The maximum limits for Call Vectoring steps and delays are defined on this form. The TCA (Telephone Company Administration) can limit the number of vector steps for a call. These limits prevent any infinite loops that may be defined in call vectoring by the ACD/BRCS customer from consuming unlimited real-time resources. When a given limit is reached, vector processing stops, reorder tone is given to a caller if the call has not yet been queued; or if the call has been queued, it remains in queue. If no limit is specified, no limit is enforced.

Call vectoring steps are divided into a set of categories reflecting their use and real-time load. The vector step categories are:

- Queuing or transferring the call between queues
- Conditional GOTOs based on call queue or serving team state, age of the call at head of the queue or expected delay
- GOTO based on time-of-day or day-of-week
- Announcement or delay with music
- Conditional or unconditional GOTO to another vector

Any vector step that does not fall into one of these categories does not have a limit associated with it other than the limit on total vector steps. Each category has a resettable limit such that if, during vector processing, the limit for the allowable number of steps in that category is reached and vector processing is paused. The pause lasts an amount of time identified for all Call Vectoring pauses established by the TCA. If no pause limit is specified, the pause period shall be five seconds. Each forced pause resets the limits for all categories. In addition, the limits are reset each time a delay step is successfully executed or the call is successfully routed to an announcement.

In addition to the resettable limits, each category has an absolute limit on the number of steps that each call can sequence. This limit is not reset by the successful execution of a delay step or successful route to an announcement. If a step is encountered during vector processing that exceeds the limit on that step's category, vector processing is stopped for the call. If no limit is specified for steps in a given category, no limit is enforced for steps in that category.

In addition to the above limits, there is a global limit on the length of time that a call can be vectored without being placed in queue. The intent of this limit is to prevent calls from receiving endless vector treatment.

1.2 Recent Change View

The corresponding Recent Change View for this form is 6.9

2. FORM AND RECORD ENTRIES

2.1 BASE AND CONTROL, ESS UNIT

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

2.2 * KEY

Description: This field is the Processor ID and is always 1. Enter 1 or just press the return key.

Required Field.
Valid Entries: 1

2.3 CALL VECTORING

Description: Should the Call Vectoring feature be activated? Enter "Y" if Call Vectoring should be activated and "N" if it should not be activated.

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

2.4 SIMINTRA

Description: Enter the maximum number of simultaneous intraoffice forwarded calls allowed as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121.

Required Field.
Default: 99
Valid Entries: 1 - 99

2.5 SIMINTER

Description: Enter the maximum number of simultaneous interoffice forwarded calls allowed as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121.

Required Field.
Default: 99
Valid Entries: 1 - 99

2.6 CFMAX

Description: Enter the maximum number of call forwardings as an action of ACD re-routing for ACD/BRCS. For more information on ACD/BRCS feature see Division 2, Section 4A121.

Required Field.
Default: 5
Valid Entries: 1 - 32

2.7 INTRAFLOW ALW

Description: Should intraflow be turned on? Intraflow allows an ACD (Automatic Call Distributor) administrator to designate a single principal serving team and up to eight supporting serving teams with associated delay outflow thresholds for each call queue.

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

CALL QUEUE SLOTS

The following fields (Section 2.8 - Section 2.9) define call queue data blocks.

2.8 ACTUAL CQDB

Description: This field is a "display only" field for both Recent Change and ODA. This global parameter contains a count of the total number of initialized ACD/BRCS Call Queue Data Blocks. If the initialization succeeds, then this parameter is set to the value of the REQUIRED CQDB parameter. In case of an initialization failure, this parameter reflects the actual number of data blocks that were successfully initialized. This parameter is supported by ODA, but the value does NOT appear on the ODA form. It is initialized by ODA to equal the value of the REQUIRED CQDB parameter. This parameter is a Recent Change verify only field.
Valid Entries: 0 - 40000

2.9 REQUIRED CQDB

Description: This field is a "display only" field for both Recent Change and ODA. This global parameter (Call Queue Maximum Calls Sum) contains the sum of the ACD/BRCS Call Queue's maximum number of data blocks. This is a Recent Change only field. This parameter is supported by ODA but the value does NOT appear on any ODA form.
Valid Entries: 0 - 40000

CALL VECTORING FIELDS

The following fields (Section 2.10 - Section 2.23) specify the maximum limits for Call Vectoring commands (steps) and delays.

ABSOLUTE MAXIMUM LIMITS (A)

The following fields (Section 2.10 - Section 2.22) preceded by an "A" specify the maximum limits for call vectoring steps.

2.10 A VECTOR XFERS

Description: This field specifies the maximum number of intervector GOTOs that can be processed for a given call. An intervector GOTO is any conditional or unconditional GOTO to a step in another vector. Vector processing is stopped when this limit is reached. If the call has not been previously queued, the caller is provided with reorder. If the call has been previously queued, the caller continues to receive any active delay treatment and remains in the queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field has no entry no limit is enforced.
Default: 20

Valid Entries: 1 - 255

2.11 A ACD STAT QRYS

Description: This field specifies the maximum number of GOTO status queries based on are or queue/team state, i.e., "GOTOAGE", "GOTOQUE", "GOTOSTA", "GOTOAVL" and "GOTODLY" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call has not been place in a queue, the caller is given reorder. If the call has been queued, the caller continues to receive any active delay treatment, such as music, ring or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field has no entry, no limit is enforced.
Default: 4
Valid Entries: 1 - 255

2.12 A TOD DOW STPS

Description: This field specifies the maximum number of "GOTOTOD" and "GOTODOW" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is given reorder. If the call is in a queue, the caller receives any active delay treatment and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field has no entry, no limit is enforced.
Default: 10
Valid Entries: 1 - 255

2.13 A MUS ANNC STPS

Description: This field specifies the maximum number of "MUSIC", "ANNOUNC" or "PROMPT" steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field is not entered, no limit is enforced.
Default: 10
Valid Entries: 1 - 255

2.14 A QUEUE STPS

Description: This field specifies the maximum number of QUEUE steps that can be processed for a given call. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field is not entered, no limit is enforced.
Default: 4
Valid Entries: 1 - 255

2.15 A VECTOR STPS

Description: This field specifies the total number of vector steps a call can go through while waiting for an available agent. The purpose of this field is to detect and terminate endless loops in an ACD/BRCS customer's vector program. Vector processing is stopped when this limit is reached. If the call is not in a queue, the caller is provided with reorder. If the call is in a queue, the caller receives any active delay treatment, such as music, ringing, or quiet, and remains in queue. The call remains in this state until the caller abandons or the call is connected to an agent.

If this field is not entered, no limit is enforced.
Default: 100
Valid Entries: 1 - 255

2.16 A NOT QUEUED SEC

Description: This field specifies the maximum number of seconds a call can be vectored without being placed in a queue. When this limit is reached, call vector processing is stopped and the caller is provided with reorder.

If this field is not entered, no limit is enforced.
Default: 120
Valid Entries: 1 - 255 (seconds)

2.17 A ANNC SEC

Description: This field specifies the maximum number of seconds an announcement can last, if the call was routed to that announcement and had not been placed in a queue. An announcement is stopped when this limit is reached.

If this field is not entered, no limit is enforced.
Default: 120
Valid Entries: 1 - 255 (seconds)

BETWEEN DELAYS MAXIMUM LIMITS (B)

The following fields (Section 2.18 - Section 2.22) preceded by an "B" specify the maximum limits for steps that can be processed without pausing.

2.18 B VECTOR XFERS

Description: This field specifies the maximum number of intervector GOTOs that can be processed without pausing. An intervector GOTO step is vector processing a conditional or unconditional GOTO another step in another vector. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step, defined on the ACDVCT form (5643 Record) is successfully processed. If the counter reaches the specified limit, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early, if an agent becomes available during the pause. Any currently active delay treatment continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If this field is note entered, no limit is enforced.
Default: 2
Valid Entries: 1 - 255

2.19 B ACD STAT QRYS

Description: This field specifies the maximum number of "GOTOAGE", "GOTOQUE", "GOTOAVL", "GOTOSTA" and "GOTODLY" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or quiet, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If this field is not entered, no limit is enforced.
Default: 2
Valid Entries: 1 - 255

2.20 B TOD DOW QRYS

Description: This field specifies the maximum number of "GOTOTOD" and "GOTODOW" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step defined on the ACDVCT form (5643 Record) is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or silence, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If this field is not entered, no limit is enforced.
Default: 6
Valid Entries: 1 - 255

2.21 B MUS ANNC STPS

Description: This field specifies the maximum number of "MUSIC", "ANNOUNC" or "PROMPT" steps that can be processed without pausing. The counter used to count the steps is reset whenever an "ANNOUNC", "MUSIC", "RING" or "QUIET" step, defined on the ACDVCT form (5643 Record) is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment, such as music, ringing or silence, continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If this field is not entered, no limit is enforced.
Default: 1
Valid Entries: 1 - 255

2.22 B QUEUE STPS

Description: This field specifies the maximum number of "QUEUE" steps that can be processed without pausing. The counter used to count the steps is reset whenever an ANNOUNC, MUSIC, RING or QUIET step, defined on the ACDVCT form, is successfully processed. If the counter reaches the limit specified, vector processing is paused for the number of seconds defined in the PAUSE SEC field on this form and all resettable limit counters are cleared. If the call has been placed into a queue, the pause ends early if an agent becomes available during the pause. Any currently active delay treatment continues during the pause. If no delay treatment is active, the caller hears silence during the pause.

If this field is not entered, no limit is enforced.

Default: 1
Valid Entries: 1 - 255

FORCE PAUSE DELAY

The Call Vectoring Global Pause Period is defined in the following field (Section 2.23).

2.23 PAUSE SEC

Description: This field specifies the length of time (in seconds) that a call can be paused if any of the resettable limits are reached. The value entered in this field must be greater than or equal to 5.

Required Field.
Default: 5
Valid Entries: 5 - 255 (seconds)

VECTOR PROMPT TIMING

The following fields (Section 2.24 - Section 2.25) define timing limits for prompting. These fields support the Vector Prompt features. For more information on these features, see Division 2, Section 4A41 and Section4A138.

2.24 FIRST DIGIT

Description: Enter the number of seconds the Vector Prompt waits for the first digit in any prompt step.

Required Field.
Default: 8
Valid Entries: 1 - 64 (seconds)

2.25 OTHER DIGITS

Description: Enter the number of seconds the Vector Prompt will wait for all other digits in a multi-digit prompt step.

Required Field.
Default: 5
Valid Entries: 1 - 64 (seconds)

```
acdbparm                          5ESS SWITCH
SCREEN 1 OF 2              OFFICE DATA ADMINISTRATION
(5645)                     ACD/BRCS OFFICE PARAMETERS

*1. KEY            1
 2. CALL VECTORING N
 3. SIMINTRA       99
 4. SIMINTER       99
 5. CFMAX          05
 6. INTRAFLOW ALW  N

   CALL QUEUE SLOTS
```

```
    ACTUAL CQDB
    REQUIRED CQDB
```

```
acdbparm                          5ESS SWITCH
SCREEN 2 OF 2              OFFICE DATA ADMINISTRATION
(5645)                     ACD/BRCS OFFICE PARAMETERS

                                 CALL VECTORING

       ABSOLUTE                  BETWEEN DELAYS              FORCED
   MAXIMUM LIMITS (A)         MAXIMUM LIMITS (B)          PAUSE DELAY
 9. A VECTOR XFERS   20     17. B VECTOR XFERS  2      22. PAUSE SEC 5
10. A ACD STAT QRYS  4      18. B ACD STAT QRYS 2
11. A TOD DOW STPS   10     19. B TOD DOW STPS  6      VECTOR PROMPT TIMING
12. A MUS ANNC STPS  10     20. B MUS ANNC STPS 1      23. FIRST DIGIT  8
13. A QUEUE STPS     4      21. B QUEUE STPS    1      24. OTHER DIGITS 5
14. A VECTOR STPS    100
15. A NOT QUEUED SEC 120
16. A ANNC SEC       120
```

Figure 1 SAMPLE ACDBPARM FORM 5E11 AND LATER SOFTWARE RELEASES